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Mr. William Ports
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

ENVIRONMENT

Subject:
Post ISS Groundwater Monitoring Results
NYSEG Cortland-Homer Former MGP Site
Homer, New York
NYSDEC Site # 7-12-005

Date:
March 13, 2014

Contact:
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Our ref:
B0013123.0002

Dear Mr. Ports:

On behalf of New York State Electric & Gas Corporation (NYSEG), this letter summarizes the results of the November 2013 post-in-situ solidification (ISS) groundwater monitoring event completed at the Cortland-Homer former manufactured gas plant (MGP) site in Homer, New York (the Site). The monitoring event was conducted by ARCADIS in response to a request in the New York State Department of Environmental Conservation's (NYSDEC's) February 3, 2012 letter to NYSEG that provides comments on the *95% Remedial Design* (AECOM, January 2012).

A baseline groundwater sampling event was completed in June 2012, prior to the start of remedial construction. The November 2013 post-ISS groundwater monitoring event was performed to provide information regarding groundwater conditions at existing monitoring wells following the completion of remedial construction at the Site. The post-ISS monitoring event was performed in accordance with the protocols presented in the NYSDEC-approved Baseline Groundwater Monitoring Work Plan contained in a June 13, 2012 letter from ARCADIS to the NYSDEC.

Relevant background information is presented below, followed by a summary of the post-ISS groundwater monitoring activities and results.

I. BACKGROUND

Remedial activities at the Site were substantially completed between July 2012 and February 2013, and final site restoration was performed in May/June 2013. The remedial activities involved ISS of approximately 55,000 cubic yards (cy) of soil in two separate operable units on opposite sides of U.S Route 11 (i.e., Operable Units OU-1 and OU-2 located on the west and east sides of the roadway, respectively).

ISS treatment columns extended vertically into an underlying silt/clay layer up to 50 feet below ground surface. ISS was performed to encapsulate coal tar dense non-aqueous phase liquid (DNAPL) and site-related chemical constituents in soil to reduce or eliminate: (1) the release of constituents from soil to groundwater; and (2) migration of coal tar DNAPL beyond site boundaries. The ISS monoliths on either side of the road were connected by two vertical barrier walls extending beneath Route11 to divert groundwater around potentially-impacted soils below the roadway.

II. GROUNDWATER MONITORING ACTIVITIES

The post ISS groundwater monitoring involved: (1) collecting a synoptic, site-wide round of water-level measurements; and (2) sampling groundwater from wells in the monitoring well network (refer to Figure 1 for the well locations). ARCADIS obtained water level measurements on November 5, 2013 and performed the groundwater sampling between November 5 and 6, 2013. The fieldwork was performed in accordance with the protocols described in Attachment B of the Baseline Groundwater Monitoring Work Plan (Fluid Level Measurement and Groundwater Sampling Field Procedures).

Prior to the start of sampling, ARCADIS obtained water level measurements from 22 monitoring wells. A listing of the wells from which measurements were obtained is provided in Table 1. Measurements were obtained from existing wells, newly-installed light non-aqueous phase liquid (LNAPL) monitoring wells (MW-31, MW-32, and MW-33), and newly-installed replacement well MW-14R. The three LNAPL monitoring wells were installed in the southeastern corner of OU-1 during October 2013 to assess the nature, extent, and recoverability of LNAPL encountered in nearby monitoring well MW-11. Replacement well MW-14R was installed approximately 5 feet east of the former MW-14, which had been damaged beyond repair during the ISS remedial activities. During the November 2013 post-ISS monitoring event, ARCADIS was able to locate two wells (MW-1 and MW-26) that could not be located during the baseline monitoring event due to thick vegetative cover at that time. Depth-to-bottom measurements were obtained in each of the wells during the post-ISS monitoring event. However, the depth-to-bottom measured at MW-25 is not accurate due to an unidentified obstruction encountered in the well.

The water level measurements obtained at each well were converted to groundwater elevations by subtracting the depth to groundwater from the surveyed well casing elevation. The water level measurements and elevations are presented in Table 1. The groundwater elevations were used to prepare a map of the water table (Figure 1). Similar to the baseline monitoring event, the post-ISS groundwater elevations indicate that groundwater near the Site flows toward the east/southeast.

Groundwater samples were collected from each well where a water level measurement was obtained except for three wells, as indicated below:

- Monitoring well MW-11 had approximately 0.30 feet of LNAPL in it at the time of sampling, and therefore it was not sampled.

- LNAPL monitoring wells MW-31, MW-32, and MW-33 were not sampled because they were installed only for purposes of assessing the nature, extent, and recoverability of LNAPL near MW-11.

The groundwater samples were collected using the "low-flow" method described in the Baseline Groundwater Monitoring Work Plan. Field parameter measurements obtained during well purging prior to sampling are presented on the groundwater sampling logs included as Attachment A to this letter.

The groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts where they were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) inorganic constituents, and total cyanide. One set of quality assurance/quality control samples, consisting of a field duplicate, matrix spike, matrix spike duplicate, and a trip blank, were also collected and analyzed.

III. GROUNDWATER MONITORING RESULTS

ARCADIS validated the groundwater analytical results, and found the results to be of good quality and useable as intended. The data validation report, the full laboratory analytical data report (NYSDEC Analytical Services Protocol Category B data deliverables package), and electronic data deliverables (EDDs) are provided on the attached CD. The EDD will be e-mailed to the NYSDEC separately for upload to the NYSDEC's EQuIS database.

The validated groundwater analytical results are presented in Table 2. This table also provides the corresponding ambient water quality standards and guidance values for each analyte as presented in the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", last updated June 2004. Results that exceed these criteria are highlighted in the table.

The groundwater analytical results are summarized as follows:

- VOCs were not identified at concentrations exceeding the groundwater quality standards or guidance values in 16 of the 18 wells that were sampled. The VOCs

that were identified at concentrations exceeding groundwater quality standards/ guidance values consist of benzene in MW-14R (southwest of OU-2) and benzene and ethylbenzene in MW-17 (just east of a former filling station within OU-2). The benzene concentrations identified in the baseline groundwater sample from MW-14 and in the post-ISS groundwater sample from MW-14R were similar at 14.5 parts per billion (ppb) and 17.0 ppb, respectively (vs. the 1 ppb groundwater quality standard). The benzene and ethylbenzene concentrations identified in the groundwater samples from MW-17 decreased by an order of magnitude from the baseline to the post-ISS groundwater monitoring event (from 291 ppb to 14.1 ppb, and from 258 ppb to 17.5 ppb, respectively). For reference, the groundwater quality standard for ethylbenzene is 5 ppb.

- SVOCs were not identified at concentrations exceeding the groundwater quality standards or guidance values in 17 of the 18 wells that were sampled. Only one SVOC (acenaphthene) was identified in MW-17 at a concentration exceeding its corresponding standard or guidance value. MW-17 was also the only well in the baseline monitoring event to exhibit SVOCs at concentrations greater than groundwater quality standards/guidance values. The 22.5 ppb acenaphthene concentration identified in the post-ISS sample from MW-17 only slightly exceeds the 20 ppb guidance value, and is an order of magnitude lower than the 168 ppb concentration identified in the baseline sample from MW-17. Naphthalene was the only other SVOC identified in the baseline sample from MW-17 (1,870 ppb). Naphthalene was identified in the post-ISS sample at an estimated concentration of 0.73 ppb, which is well-below *both* the 10 ppb guidance value and the 1,870 ppb concentration in the baseline sample.

- One or more inorganic constituents were identified at concentrations exceeding groundwater quality standards/guidance values in 16 of the 18 sampled wells. The inorganics concentrations in 11 of the post-ISS samples were approximately the same or lower than the baseline samples collected from the same wells.

In summary, the VOC and SVOC concentrations in groundwater at MW-17 decreased by at least an order of magnitude from the baseline groundwater monitoring event to the post-ISS monitoring event. Based on the post-ISS data, the concentrations of the few VOCs and SVOCs remaining in groundwater at MW-17 are now generally only marginally above, and no more than an order of magnitude greater than, the groundwater quality standards/guidance values. The benzene concentration at MW-14/MW-14R appears to have remained relatively stable.

VOCs and SVOCs were not identified at concentrations greater than groundwater quality standards/guidance values in any of the 16 other monitoring wells included in the post-ISS monitoring network. Overall, the data support that the area of groundwater impacted by the former MGP is relatively small. Finally, concentrations of inorganic constituents in the wells (several of which may be unrelated to the former MGP) have also decreased.

Based on the relatively small area of impacted groundwater, the relatively minor exceedances of groundwater quality standards/guidance values, the lack of groundwater use at and near the Site, and existing groundwater use laws codified in 10 NYCRR 5-1.31(b) that prohibit the installation of private wells where public supply is available (unless approval is expressly granted by the public water authority), the potential for human exposure to constituents in groundwater at this Site is limited. Based on the above considerations, groundwater remediation is not needed, and no further groundwater monitoring is proposed for the Site.

Please feel free to contact Tracy Blazicek (NYSEG) at 607.762.8839 or me at 315.671.9441 in the interim if you have any comments/questions or need additional information.

Sincerely,

ARCADIS of New York, Inc.

John C. Brussel

John C. Brussel, P.E.
Principal Engineer

Attachments:
Table 1 – Summary of November 2013 LNAPL and Water Level Gauging Data
Table 2 – Groundwater Analytical Results
Figure 1 – Post ISS Groundwater Monitoring Water Table Map – November 5, 2013
Attachment A – Groundwater Sampling Logs

Copies:
Tracy Blazicek, CHMM, NYSEG
Keith White, C.P.G., ARCADIS

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Tables

Table 1
Summary of November 2013 LNAPL and Water Level Gauging Data

Post In-Situ Soil Solidification Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site - Homer, New York

Monitoring Well ID	Date	Top of Inner Casing (TIC) Elevation (feet AMSL)	Depth to Water (feet below TIC)	Depth to NAPL (feet below TIC)	Depth to Bottom (feet below TIC)	Approximate NAPL Thickness (feet)	Groundwater Elevation (feet amsl)
MW-1	11/5/2013	1116.25	5.79	-	23.62	-	1110.46
MW-6	11/5/2013	1113.07	4.20	-	25.40	-	1108.87
MW-11	11/5/2013	1114.97	6.05	5.75	-	0.30	1109.19**
MW-12	11/5/2013	1115.23	5.61	-	11.60	-	1109.62
MW-13	11/5/2013	1113.47	4.55	-	31.66	-	1108.92
MW-14R	11/5/2013	1112.78	4.09	-	13.05	-	1108.69
MW-17	11/5/2013	1114.75	6.12	-	10.50	-	1108.63
MW-18	11/5/2013	1114.81	6.01	-	30.08	-	1108.80
MW-21	11/5/2013	1112.89	4.16	-	36.95	-	1108.73
MW-25	11/5/2013	1117.43	5.32	-	6.2*	-	1112.11
MW-26	11/5/2013	1118.00	7.62	-	61.51	-	1110.38
MW-27S	11/5/2013	1112.47	3.96	-	12.11	-	1108.51
MW-27D	11/5/2013	1112.29	3.66	-	33.16	-	1108.63
MW-28S	11/5/2013	1111.68	2.77	-	13.22	-	1108.91
MW-28D	11/5/2013	1111.50	2.65	-	26.80	-	1108.85
MW-29S	11/5/2013	1113.82	4.73	-	14.79	-	1109.09
MW-29D	11/5/2013	1113.82	4.81	-	43.09	-	1109.01
MW-30S	11/5/2013	1115.08	5.46	-	12.05	-	1109.62
MW-30D	11/5/2013	1115.15	5.87	-	32.07	-	1109.28
MW-31	11/5/2013	1115.30	6.42	-	14.02	-	1108.88
MW-32	11/5/2013	1115.78	6.75	-	14.42	-	1109.03
MW-33	11/5/2013	1116.17	7.10	-	13.59	-	1109.07

Notes:
1. Elevations are shown in feet above mean sea level (AMSL) relative to the NAVD datum of 1983 (NAVD83).
2. - = not available or does not apply; NAPL = Non-Aqueous Phase Liquid; LNAPL= Light Non-Aqueous Phase Liquid
3.* MW-25 obstructed.
4.** The groundwater elevation at MW-11 has been corrected for the presence of LNAPL, using an estimated LNAPL density of 0.9.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6		MW-12		MW-13		MW-14	MW-14R	MW-17	
Sample Depth(ft BGS):		15.5 - 20.5	26 - 31		8 - 13		35.5 - 40.5		6.5 - 11.5	2.8 - 12.8	6 - 11	
Date Collected:		11/06/13	06/26/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	06/26/12	11/05/13	06/25/12	11/05/13
Volatile Organics												
1,1,1-Trichloroethane	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
1,1,2,2-Tetrachloroethane	5	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J	<1.00 [<1.00]	<0.500 J
1,1,2-trichloro-1,2,2-trifluoroethane	5	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00
1,1,2-Trichloroethane	1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
1,1-Dichloroethane	5	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 [<1.00]	<1.00 J
1,1-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
1,2,3-Trichlorobenzene	- -	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00
1,2,4-Trichlorobenzene	5	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00
1,2-Dibromo-3-chloropropane	0.04	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00
1,2-Dibromoethane	- -	<2.00	NA	<2.00	NA	<2.00	NA	<2.00	NA	<2.00	NA	<2.00
1,2-Dichlorobenzene	3	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00
1,2-Dichloroethane	0.6	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J [<1.00]	<1.00 J
1,2-Dichloropropane	1	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]	<2.00
1,3-Dichlorobenzene	3	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00
1,4-Dichlorobenzene	3	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J
1,4-Dioxane	- -	<25.0 J	NA	<25.0 J	NA	<25.0 J	NA	<25.0 J	NA	<25.0 J	NA	<25.0 J
2-Butanone	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
2-Hexanone	50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
4-Methyl-2-pentanone	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
Acetone	50	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J	<5.00 [<5.00]	<10.0 J
Benzene	1	<0.500	<0.500	<0.500 J	<0.500	<0.500	<0.500	<0.500	**14.5**	**17.0 J**	**291 [304]**	**14.1 J**
Bromochloromethane	- -	<5.00 J	NA	<5.00	NA	<5.00 J	NA	<5.00 J	NA	<5.00	NA	<5.00
Bromodichloromethane	50	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J	<1.00 [<1.00]	<1.00 J
Bromoform	50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Bromomethane	5	<2.00	<2.00	<2.00	<2.00 J	<2.00	<2.00 J	<2.00	<2.00	<2.00	<2.00 J [<2.00]	<2.00
Carbon Disulfide	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
Carbon Tetrachloride	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Chlorobenzene	5	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 [<1.00]	<1.00 J
Chloroethane	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]	<2.00
Chloroform	7	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 [<1.00]	<1.00 J
Chloromethane	- -	1.40 J	<2.00	3.00	<2.00 J	2.90	<2.00 J	2.00	<2.00	<2.00	<2.00 [<2.00]	1.60 J
cis-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 [<0.500]	<0.500
Cyclohexane	- -	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00
Dibromochloromethane	50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Dichlorodifluoromethane	5	<2.00	NA	<2.00	NA	<2.00	NA	<2.00	NA	<2.00	NA	<2.00
Ethylbenzene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**258 [257]**	**17.5**
Isopropylbenzene	5	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	0.780 J	NA	2.80 J
Methyl acetate	- -	<5.00 J	NA	<5.00 J	NA	<5.00 J	NA	<5.00 J	NA	<5.00 J	NA	<5.00 J
Methyl tert-butyl ether	- -	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00
Methylcyclohexane	- -	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00	NA	<5.00
Methylene Chloride	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]	<2.00

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6		MW-12		MW-13		MW-14	MW-14R	MW-17	
Sample Depth(ft BGS):		15.5 - 20.5	26 - 31		8 - 13		35.5 - 40.5		6.5 - 11.5	2.8 - 12.8	6 - 11	
Date Collected:		11/06/13	06/26/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	06/26/12	11/05/13	06/25/12	11/05/13
Volatile Organics (Cont.)												
Styrene	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	0.840 J [1.10 J]	<5.00
Tetrachloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Toluene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**16.0 [17.1]**	1.10
trans-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
trans-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 [<0.500]	<0.500
Trichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Trichlorofluoromethane	5	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00	NA	<1.00
Vinyl Chloride	2	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 [<1.00]	<1.00 J
Xylenes (total)	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**157 J [144]**	1.70
Semivolatile Organics												
1,1'-Biphenyl	5	<12.0	NA	<12.0	NA	<13.0	NA	<12.0	NA	<12.0	NA	<13.0
1,2,4,5-Tetrachlorobenzene	- -	<12.0	NA	<12.0	NA	<13.0	NA	<12.0	NA	<12.0	NA	<13.0
1,2,4-Trichlorobenzene	5	NA	<5.40	NA	<5.80	NA	<5.50	NA	<5.30	NA	<5.40 [<5.50]	NA
1,2-Dichlorobenzene	3	NA	<5.40	NA	<5.80	NA	<5.50	NA	<5.30	NA	<5.40 [<5.50]	NA
1,3-Dichlorobenzene	3	NA	<5.40	NA	<5.80	NA	<5.50	NA	<5.30	NA	<5.40 [<5.50]	NA
1,4-Dichlorobenzene	3	NA	<5.40	NA	<5.80	NA	<5.50	NA	<5.30	NA	<5.40 [<5.50]	NA
2,4,5-Trichlorophenol	1	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
2,4,6-Trichlorophenol	1	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
2,4-Dichlorophenol	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
2,4-Dimethylphenol	50	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	11.8 [<11.0]	<13.0
2,4-Dinitrophenol	10	<24.0	<22.0	<25.0	<23.0	<25.0	<22.0	<24.0	<21.0	<24.0	<22.0 [<22.0]	<26.0
2,4-Dinitrotoluene	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
2,6-Dinitrotoluene	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
2-Chloronaphthalene	10	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
2-Chlorophenol	1	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
2-Methylnaphthalene	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	26.8
2-Methylphenol	- -	NA	<11.0	NA	<12.0	NA	<11.0	NA	<11.0	NA	<11.0 [<11.0]	NA
2-Nitroaniline	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
2-Nitrophenol	- -	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
3&4-Methylphenol	- -	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	1.80 J	<12.0	<11.0 [<11.0]	<13.0
3,3'-Dichlorobenzidine	5	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
3-Nitroaniline	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
4,6-Dinitro-2-methylphenol	- -	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
4-Bromophenyl-phenylether	- -	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
4-Chloro-3-Methylphenol	- -	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
4-Chloroaniline	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
4-Chlorophenyl-phenylether	- -	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
4-Nitroaniline	5	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
4-Nitrophenol	- -	<24.0 J	<22.0	<25.0 J	<23.0	<25.0 J	<22.0	<24.0 J	<21.0	<24.0 J	<22.0 [<22.0]	<26.0 J
Acenaphthene	20	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	3.00	13.6	**168 [146]**	**22.5**
Acenaphthylene	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6		MW-12		MW-13		MW-14	MW-14R	MW-17	
Sample Depth(ft BGS):		15.5 - 20.5	26 - 31		8 - 13		35.5 - 40.5		6.5 - 11.5	2.8 - 12.8	6 - 11	
Date Collected:		11/06/13	06/26/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	06/26/12	11/05/13	06/25/12	11/05/13
Semivolatile Organics (Cont.)												
Acetophenone	- -	<12.0	NA	<12.0	NA	<13.0	NA	<12.0	NA	<12.0	NA	<13.0
Anthracene	50	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	2.90 [2.80]	0.730 J
Atrazine	7.5	<12.0	NA	<12.0	NA	<13.0	NA	<12.0	NA	<12.0	NA	<13.0
Benzaldehyde	- -	<12.0	NA	<12.0	NA	<13.0	NA	<12.0	NA	<12.0	NA	<13.0
Benzo(a)anthracene	0.002	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Benzo(a)pyrene	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Benzo(b)fluoranthene	0.002	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Benzo(g,h,i)perylene	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Benzo(k)fluoranthene	0.002	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
bis(2-Chloroethoxy)methane	5	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
bis(2-Chloroethyl)ether	1	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
bis(2-Chloroisopropyl)ether	- -	NA	<5.40	NA	<5.80	NA	<5.50	NA	<5.30	NA	<5.40 [<5.50]	NA
bis(2-Ethylhexyl)phthalate	5	<2.40	<2.20	<2.50	<2.30	<2.50	0.810 J	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Butylbenzylphthalate	50	<6.00	<5.40	<6.20	0.550 J	<6.30	0.700 J	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Caprolactam	- -	<12.0 J	NA	<12.0 J	NA	<13.0 J	NA	<12.0 J	NA	<12.0 J	NA	<13.0
Carbazole	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	1.60 J	51.9 [50.7]	12.6
Chrysene	0.002	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Dibenzo(a,h)anthracene	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Dibenzofuran	- -	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	28.7 [25.3]	5.20
Diethylphthalate	50	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Dimethylphthalate	50	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Di-n-Butylphthalate	50	<6.00	<5.40 B	<6.20	<5.80 B	<6.30	<5.50 B	<6.10	<5.30	<6.00	2.20 J [<5.50]	<6.40
Di-n-Octylphthalate	50	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Fluoranthene	50	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	1.50 J [1.50 J]	<2.60
Fluorene	50	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	39.0 [35.2]	6.70
Hexachlorobenzene	0.04	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Hexachlorobutadiene	0.5	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Hexachlorocyclopentadiene	5	<12.0 J	<11.0	<12.0 J	<12.0	<13.0 J	<11.0	<12.0 J	<11.0	<12.0 J	<11.0 [<11.0]	<13.0 J
Hexachloroethane	5	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Indeno(1,2,3-cd)pyrene	0.002	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	<2.20 [<2.20]	<2.60
Isophorone	50	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Naphthalene	10	<2.40	<2.20 B	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10 B	<2.40	**1,870 D [<1,740 BD]**	0.730 J
Nitrobenzene	0.4	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
N-Nitroso-di-n-propylamine	- -	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
N-Nitrosodiphenylamine	50	<6.00	<5.40	<6.20	<5.80	<6.30	<5.50	<6.10	<5.30	<6.00	<5.40 [<5.50]	<6.40
Pentachlorophenol	- -	<12.0	<11.0	<12.0	<12.0	<13.0	<11.0	<12.0	<11.0	<12.0	<11.0 [<11.0]	<13.0
Phenanthrene	50	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	33.9 [32.5]	7.40
Phenol	1	<6.00 J	<5.40	<6.20 J	<5.80	<6.30 J	<5.50	<6.10 J	<5.30	<6.00 J	<5.40 [<5.50]	<6.40 J
Pyrene	50	<2.40	<2.20	<2.50	<2.30	<2.50	<2.20	<2.40	<2.10	<2.40	1.10 J [1.10 J]	<2.60
Total PAHs	- -	NA	18.2 J	NA	19.6	NA	18.7	NA	19.5 J	NA	2,130 J [1,970 J]	NA

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Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-1	MW-6		MW-12		MW-13		MW-14	MW-14R	MW-17	
Sample Depth(ft BGS):		15.5 - 20.5	26 - 31		8 - 13		35.5 - 40.5		6.5 - 11.5	2.8 - 12.8	6 - 11	
Date Collected:		11/06/13	06/26/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	06/26/12	11/05/13	06/25/12	11/05/13
Inorganics												
Aluminum	- -	153 B	<200 B	709	673	406	122 B	89.3 B	<200 B	84.3 B	<200 B [<200 B]	58.0 B
Antimony	3	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00 [<6.00]	<6.00
Arsenic	25	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00 B [<4.00]	3.40 B
Barium	1,000	247	162	185	108	80.8	198	191	363	362	565 [557]	385
Beryllium	- -	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00 [<4.00]	<4.00
Cadmium	5	0.700 B	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00 [<4.00]	<4.00
Calcium	- -	91,100	80,300	80,500	200,000	144,000	87,900	88,800	81,500	70,200	126,000 [124,000]	88,200
Chromium	50	**194**	4.00 B	3.40 B	**701**	**56.3**	**147**	30.3	<10.0	12.4	<10.0 [<10.0]	<10.0
Cobalt	- -	3.40 B	<50.0	0.900 B	9.70 B	4.40 B	12.6 B	3.10 B	<50.0 B	0.600 B	<50.0 B [<50.0]	<50.0
Copper	200	<25.0	<25.0	<25.0	12.4 B	<25.0	4.80 B	<25.0	<25.0	<25.0	<25.0 [<25.0]	<25.0
Cyanide	200	<10.0	<10.0	<10.0	**2,600**	**3,000**	<10.0	<10.0	100	130	**310 [330]**	30.0
Iron	300	**1,830**	<100 B	**685**	**6,210**	**2,440**	**3,820**	**375**	**6,300**	**928**	**3,070 [3,020]**	**1,690**
Lead	25	<5.00	<5.00	2.10 B	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
Magnesium	- -	19,000	15,400	17,500	21,600	14,300	17,700	19,300	7,590	7,570	22,800 [22,300]	18,100
Manganese	300	49.1	158	**309**	**1,230**	**652**	158	52.5	**1,780**	**1,510**	**923 [907]**	**523**
Mercury	0.7	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200 B	<0.200	<0.200 [<0.200]	<0.200
Nickel	100	44.9	<40.0	2.50 B	**299**	51.9	**103**	20.2 B	<40.0 B	54.4	<40.0 [<40.0]	3.30 B
Potassium	- -	1,850 B	1,060 B	1,400 B	2,920 B	2,580 B	1,180 B	1,240 B	2,450 B	3,470 B	1,370 B [1,310 B]	1,110 B
Selenium	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0 [<10.0]	<10.0
Silver	50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
Sodium	- -	49,000	51,500	50,300	105,000	62,200	61,500	58,000	242,000	447,000	89,500 [86,900]	64,100
Thallium	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]	<5.00
Vanadium	- -	<10.0	<10.0	<10.0	<10.0 B	<10.0	<10.0 B	<10.0	<10.0	<10.0	<10.0 [<10.0]	<10.0
Zinc	2,000	4.90 B	4.90 B	14.1 B	5.90 B	78.6	<20.0	4.20 B	5.70 B	1.00 B	<20.0 [<20.0]	1.40 B

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18		MW-21		MW-25		MW-26	MW-27D		MW-27S	
Sample Depth(ft BGS):		24.6 - 29.6		32 - 37		4 - 14		50 - 60	24 - 34		5 - 15	
Date Collected:		06/25/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13	06/26/12	11/05/13
Volatile Organics												
1,1,1-Trichloroethane	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
1,1,2,2-Tetrachloroethane	5	<1.00	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J [<0.500 J]
1,1,2-trichloro-1,2,2-trifluoroethane	5	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
1,1,2-Trichloroethane	1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
1,1-Dichloroethane	5	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J [<1.00 J]
1,1-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
1,2,3-Trichlorobenzene	- -	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
1,2,4-Trichlorobenzene	5	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
1,2-Dibromo-3-chloropropane	0.04	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
1,2-Dibromoethane	- -	NA	<2.00	NA	<2.00	NA	<2.00	<2.00	NA	<2.00	NA	<2.00 [<2.00]
1,2-Dichlorobenzene	3	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00 [<1.00]
1,2-Dichloroethane	0.6	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J [<1.00 J]
1,2-Dichloropropane	1	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]
1,3-Dichlorobenzene	3	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00 [<1.00]
1,4-Dichlorobenzene	3	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	<1.00	NA	<1.00 J	NA	<1.00 J [<1.00 J]
1,4-Dioxane	- -	NA	<25.0 J	NA	<25.0 J	NA	<25.0 J	<25.0 J	NA	<25.0 J	NA	<25.0 J [<25.0 J]
2-Butanone	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 J	<5.00	<5.00 [<5.00]
2-Hexanone	50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 J	<5.00	<5.00 [<5.00]
4-Methyl-2-pentanone	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]
Acetone	50	<5.00	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J [<10.0 J]
Benzene	1	0.650	<0.500 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 J	<0.500	<0.500 J [<0.500 J]
Bromochloromethane	- -	NA	<5.00	NA	<5.00 J	NA	<5.00 J	<5.00 J	NA	<5.00	NA	<5.00 J [<5.00]
Bromodichloromethane	50	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J	<1.00	<1.00 [<1.00 J]
Bromoform	50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Bromomethane	5	<2.00	<2.00	<2.00 J	<2.00	<2.00 J	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]
Carbon Disulfide	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]
Carbon Tetrachloride	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Chlorobenzene	5	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J [<1.00 J]
Chloroethane	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]
Chloroform	7	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	1.10	<1.00 J [<1.00 J]
Chloromethane	- -	<2.00	<2.00	<2.00 J	<2.00	<2.00 J	2.10	1.80 J	<2.00	5.10	<2.00	<2.00 [1.60 J]
cis-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 [<0.500]
Cyclohexane	- -	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
Dibromochloromethane	50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Dichlorodifluoromethane	5	NA	<2.00	NA	<2.00	NA	<2.00	<2.00	NA	<2.00	NA	<2.00 [<2.00]
Ethylbenzene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Isopropylbenzene	5	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
Methyl acetate	- -	NA	<5.00 J	NA	<5.00 J	NA	<5.00 J	<5.00 J	NA	<5.00 J	NA	<5.00 J [<5.00 J]
Methyl tert-butyl ether	- -	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00 [<1.00]
Methylcyclohexane	- -	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00 [<5.00]
Methylene Chloride	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 [<2.00]

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18		MW-21		MW-25		MW-26	MW-27D		MW-27S	
Sample Depth(ft BGS):		24.6 - 29.6		32 - 37		4 - 14		50 - 60	24 - 34		5 - 15	
Date Collected:		06/25/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13	06/26/12	11/05/13
Volatile Organics (Cont.)												
Styrene	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]
Tetrachloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Toluene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
trans-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
trans-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 [<0.500]
Trichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Trichlorofluoromethane	5	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00 [<1.00]
Vinyl Chloride	2	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J [<1.00 J]
Xylenes (total)	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]
Semivolatile Organics												
1,1'-Biphenyl	5	NA	<12.0	NA	<11.0	NA	<13.0	<12.0	NA	<12.0	NA	<13.0 [2.70 J]
1,2,4,5-Tetrachlorobenzene	- -	NA	<12.0	NA	<11.0	NA	<13.0	<12.0	NA	<12.0	NA	<13.0 [<12.0]
1,2,4-Trichlorobenzene	5	<5.40	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA	<5.90	NA
1,2-Dichlorobenzene	3	<5.40	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA	<5.90	NA
1,3-Dichlorobenzene	3	<5.40	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA	<5.90	NA
1,4-Dichlorobenzene	3	<5.40	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA	<5.90	NA
2,4,5-Trichlorophenol	1	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2,4,6-Trichlorophenol	1	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2,4-Dichlorophenol	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2,4-Dimethylphenol	50	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2,4-Dinitrophenol	10	<22.0	<24.0	<22.0	<23.0	<22.0	<26.0	<24.0	<22.0	<25.0	<24.0	<25.0 [<24.0]
2,4-Dinitrotoluene	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2,6-Dinitrotoluene	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2-Chloronaphthalene	10	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
2-Chlorophenol	1	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
2-Methylnaphthalene	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
2-Methylphenol	- -	<11.0	NA	<11.0	NA	<11.0	NA	NA	<11.0	NA	<12.0	NA
2-Nitroaniline	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
2-Nitrophenol	- -	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
3&4-Methylphenol	- -	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
3,3'-Dichlorobenzidine	5	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
3-Nitroaniline	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
4,6-Dinitro-2-methylphenol	- -	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
4-Bromophenyl-phenylether	- -	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
4-Chloro-3-Methylphenol	- -	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
4-Chloroaniline	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
4-Chlorophenyl-phenylether	- -	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
4-Nitroaniline	5	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
4-Nitrophenol	- -	<22.0	<24.0 J	<22.0	<23.0 J	<22.0	<26.0 J	<24.0 J	<22.0	<25.0 J	<24.0	<25.0 J [<24.0 J]
Acenaphthene	20	<2.20	0.580 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 J [16.4 J]
Acenaphthylene	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [0.930 J]

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID:	NYSDEC Groundwater Standards and Guidance Values	MW-18		MW-21		MW-25		MW-26	MW-27D		MW-27S	
Sample Depth(ft BGS):		24.6 - 29.6		32 - 37		4 - 14		50 - 60	24 - 34		5 - 15	
Date Collected:		06/25/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13	06/26/12	11/05/13
Semivolatile Organics (Cont.)												
Acetophenone	- -	NA	<12.0	NA	<11.0	NA	<13.0	<12.0	NA	<12.0	NA	<13.0 [<12.0]
Anthracene	50	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Atrazine	7.5	NA	<12.0	NA	<11.0	NA	<13.0	<12.0	NA	<12.0	NA	<13.0 [<12.0]
Benzaldehyde	- -	NA	<12.0	NA	<11.0	NA	<13.0	<12.0	NA	<12.0	NA	<13.0 [<12.0]
Benzo(a)anthracene	0.002	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Benzo(a)pyrene	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Benzo(b)fluoranthene	0.002	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Benzo(g,h,i)perylene	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Benzo(k)fluoranthene	0.002	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
bis(2-Chloroethoxy)methane	5	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
bis(2-Chloroethyl)ether	1	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
bis(2-Chloroisopropyl)ether	- -	<5.40	NA	<5.60	NA	<5.60	NA	NA	<5.40	NA	<5.90	NA
bis(2-Ethylhexyl)phthalate	5	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	1.80 J	<2.20	<2.50	<2.40	<2.50 [<2.40]
Butylbenzylphthalate	50	<5.40	<5.90	0.880 J	<5.70	0.310 J	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Caprolactam	- -	NA	<12.0 J	NA	<11.0 J	NA	<13.0 J	<12.0 J	NA	<12.0 J	NA	<13.0 J [<12.0 J]
Carbazole	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 J [8.80 J]
Chrysene	0.002	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Dibenzo(a,h)anthracene	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Dibenzofuran	- -	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [3.90]
Diethylphthalate	50	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Dimethylphthalate	50	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Di-n-Butylphthalate	50	<5.40	<5.90	<5.60 B	<5.70	<5.60 B	<6.50	<6.00	<5.40 B	<6.20	<5.90	<6.30 [<6.00]
Di-n-Octylphthalate	50	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Fluoranthene	50	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Fluorene	50	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [5.10]
Hexachlorobenzene	0.04	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Hexachlorobutadiene	0.5	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Hexachlorocyclopentadiene	5	<11.0	<12.0 J	<11.0	<11.0 J	<11.0	<13.0 J	<12.0 J	<11.0	<12.0 J	<12.0	<13.0 J [<12.0 J]
Hexachloroethane	5	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20 J	<5.90	<6.30 [<6.00]
Indeno(1,2,3-cd)pyrene	0.002	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Isophorone	50	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Naphthalene	10	<2.20 B	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50 J	<5.40 B	<2.50 [<2.40]
Nitrobenzene	0.4	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
N-Nitroso-di-n-propylamine	- -	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
N-Nitrosodiphenylamine	50	<5.40	<5.90	<5.60	<5.70	<5.60	<6.50	<6.00	<5.40	<6.20	<5.90	<6.30 [<6.00]
Pentachlorophenol	- -	<11.0	<12.0	<11.0	<11.0	<11.0	<13.0	<12.0	<11.0	<12.0	<12.0	<13.0 [<12.0]
Phenanthrene	50	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [5.70]
Phenol	1	<5.40	<5.90 J	<5.60	<5.70 J	<5.60	<6.50 J	<6.00 J	<5.40	<6.20 J	<5.90	<6.30 J [<6.00 J]
Pyrene	50	<2.20	<2.40	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50	<2.40	<2.50 [<2.40]
Total PAHs	- -	18.8 J	NA	18.7	NA	18.7	NA	NA	18.7	NA	21.4 J	NA

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID: / Sample Depth(ft BGS): / Date Collected:	NYSDEC Groundwater Standards and Guidance Values	MW-18 24.6 - 29.6		MW-21 32 - 37		MW-25 4 - 14		MW-26 50 - 60	MW-27D 24 - 34		MW-27S 5 - 15	
		06/25/12	11/05/13	06/27/12	11/06/13	06/27/12	11/06/13	11/06/13	06/26/12	11/05/13	06/26/12	11/05/13
Inorganics												
Aluminum	- -	<200	53.2 B	<200 B	40.7 B	129 B	111 B	699	486	45.5 B	1,020	1,380 [1,150]
Antimony	3	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00 [<6.00]
Arsenic	25	<4.10 B	3.70 B	<4.00	<4.00	<4.00	9.50	<4.00	<4.00	<4.00	<4.00	<4.00 [<4.00]
Barium	1,000	135	168	145	138	153	182	158	180	163	43.9 B	45.4 B [43.7 B]
Beryllium	- -	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00 [<4.00]
Cadmium	5	<4.00 B	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00 B	1.00 B [0.800 B]
Calcium	- -	19,200	34,700	89,200	80,100	112,000	112,000	47,200	93,300	82,500	57,000	47,800 [48,200]
Chromium	50	<10.0	1.60 B	26.8	21.6	<10.0	5.80 B	9.60 B	<10.0	<10.0	<10.0 B	2.50 B [2.10 B]
Cobalt	- -	<50.0	<50.0	35.3 B	1.10 B	<50.0	4.10 B	0.400 B	<50.0 B	<50.0	<50.0 B	1.00 B [0.800 B]
Copper	200	1.80 B	<25.0	2.90 B	<25.0	<25.0	<25.0	<25.0	1.80 B	<25.0	4.40 B	<25.0 [<25.0]
Cyanide	200	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0 [<10.0]
Iron	300	<105 B	199	**758**	**561**	150	**13,300**	**675**	**764**	<100	**1,760**	**1,570 [1,330]**
Lead	25	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	2.10 B [1.80 B]
Magnesium	- -	18,100	18,000	18,300	18,100	19,300	21,300	18,200	18,800	17,400	9,470	6,690 [6,960]
Manganese	300	278	242	300	6.40 B	142	**989**	26.6	87.2	17.5	56.7	109 [87.4]
Mercury	0.7	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200 [<0.200]
Nickel	100	<40.0 B	1.60 B	**1,150**	**737**	<40.0 B	19.7 B	35.3 B	<40.0 B	<40.0	<40.0 B	3.30 B [3.00 B]
Potassium	- -	1,470 B	1,240 B	1,010 B	966 B	953 B	767 B	1,430 B	1,360 B	1,200 B	1,280 B	1,210 B [1,170 B]
Selenium	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0 [<10.0]
Silver	50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]
Sodium	- -	41,100	42,900	61,600	56,700	44,500	37,700	61,400	61,400	56,300	8,640	13,300 [13,400]
Thallium	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 [<5.00]
Vanadium	- -	<10.0	<10.0	<10.0	<10.0	<10.0	3.00 B	<10.0	<10.0	<10.0	<10.0 B	3.00 B [<10.0]
Zinc	2,000	<20.0	3.40 B	10.7 B	6.20 B	<20.0	2.30 B	15.6 B	7.30 B	1.70 B	11.2 B	14.5 B [12.3 B]

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID: / Sample Depth(ft BGS): / Date Collected:	NYSDEC Groundwater Standards and Guidance Values	MW-28D 18 - 28		MW-28S 4 - 14		MW-29D 35 - 45		MW-29S 5 - 15	MW-30D 24 - 34		MW-30S 5 - 15	
		06/25/12	11/05/13	06/25/12	11/05/13	06/26/12	11/06/13	11/06/13	06/26/12	11/06/13	06/27/12	11/06/13
Volatile Organics												
1,1,1-Trichloroethane	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	5	<1.00	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J	<0.500 J	<1.00	<0.500 J	<1.00	<0.500 J
1,1,2-trichloro-1,2,2-trifluoroethane	5	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
1,1,2-Trichloroethane	1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	5	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J
1,1-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	- -	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
1,2,4-Trichlorobenzene	5	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
1,2-Dibromo-3-chloropropane	0.04	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
1,2-Dibromoethane	- -	NA	<2.00	NA	<2.00	NA	<2.00	<2.00	NA	<2.00	NA	<2.00
1,2-Dichlorobenzene	3	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00
1,2-Dichloroethane	0.6	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J
1,2-Dichloropropane	1	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,3-Dichlorobenzene	3	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00
1,4-Dichlorobenzene	3	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	<1.00 J	NA	<1.00 J	NA	<1.00 J
1,4-Dioxane	- -	NA	<25.0 J	NA	<25.0 J	NA	<25.0 J	<25.0 J	NA	<25.0 J	NA	<25.0 J
2-Butanone	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00 J	<5.00	<5.00	<5.00	<5.00	<5.00
2-Hexanone	50	<5.00	<5.00	<5.00	<5.00	<5.00 J	<5.00 J	<5.00	<5.00	<5.00	<5.00	<5.00
4-Methyl-2-pentanone	- -	<5.00	<5.00	<5.00	<5.00	<5.00 J	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	50	<5.00	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J	<10.0 J	<5.00	<10.0 J	<5.00	<10.0 J
Benzene	1	<0.500	<0.500 J	<0.500	<0.500 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromochloromethane	- -	NA	<5.00	NA	<5.00	NA	<5.00 J	<5.00 J	NA	<5.00 J	NA	<5.00 J
Bromodichloromethane	50	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	5	<2.00 J	<2.00	<2.00 J	<2.00	<2.00 J	<2.00	<2.00	<2.00	<2.00	<2.00 J	<2.00
Carbon Disulfide	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Carbon Tetrachloride	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	5	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J
Chloroethane	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chloroform	7	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J
Chloromethane	- -	<2.00	2.20	<2.00	<2.00	<2.00 J	4.80	2.80	<2.00	<2.00	<2.00 J	1.80 J
cis-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Cyclohexane	- -	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
Dibromochloromethane	50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	5	NA	<2.00	NA	<2.00	NA	<2.00	<2.00	NA	<2.00	NA	<2.00
Ethylbenzene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	5	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
Methyl acetate	- -	NA	<5.00 J	NA	<5.00 J	NA	<5.00 J	<5.00 J	NA	<5.00 J	NA	<5.00 J
Methyl tert-butyl ether	- -	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00
Methylcyclohexane	- -	NA	<5.00	NA	<5.00	NA	<5.00	<5.00	NA	<5.00	NA	<5.00
Methylene Chloride	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID: / Sample Depth(ft BGS): / Date Collected:	NYSDEC Groundwater Standards and Guidance Values	MW-28D 18 - 28		MW-28S 4 - 14		MW-29D 35 - 45		MW-29S 5 - 15	MW-30D 24 - 34		MW-30S 5 - 15	
		06/25/12	11/05/13	06/25/12	11/05/13	06/26/12	11/06/13	11/06/13	06/26/12	11/06/13	06/27/12	11/06/13
Volatile Organics (Cont.)												
Styrene	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Tetrachloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.20	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	0.4	<0.500	<0.500	<0.500	<0.500	<0.500 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichloroethene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	5	NA	<1.00	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	NA	<1.00
Vinyl Chloride	2	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J	<1.00 J	<1.00	<1.00 J	<1.00	<1.00 J
Xylenes (total)	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Semivolatile Organics												
1,1'-Biphenyl	5	NA	<11.0	NA	<13.0	NA	<12.0	<12.0	NA	<12.0	NA	<13.0
1,2,4,5-Tetrachlorobenzene	- -	NA	<11.0	NA	<13.0	NA	<12.0	<12.0	NA	<12.0	NA	<13.0
1,2,4-Trichlorobenzene	5	<5.10	NA	<5.90	NA	<5.60	NA	NA	<5.60	NA	<5.90	NA
1,2-Dichlorobenzene	3	<5.10	NA	<5.90	NA	<5.60	NA	NA	<5.60	NA	<5.90	NA
1,3-Dichlorobenzene	3	<5.10	NA	<5.90	NA	<5.60	NA	NA	<5.60	NA	<5.90	NA
1,4-Dichlorobenzene	3	<5.10	NA	<5.90	NA	<5.60	NA	NA	<5.60	NA	<5.90	NA
2,4,5-Trichlorophenol	1	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2,4,6-Trichlorophenol	1	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2,4-Dichlorophenol	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2,4-Dimethylphenol	50	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2,4-Dinitrophenol	10	<20.0	<22.0	<24.0	<25.0	<22.0	<24.0	<24.0	<22.0	<25.0	<24.0	<25.0
2,4-Dinitrotoluene	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2,6-Dinitrotoluene	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2-Chloronaphthalene	10	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
2-Chlorophenol	1	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
2-Methylnaphthalene	- -	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
2-Methylphenol	- -	<10.0	NA	<12.0	NA	<11.0	NA	NA	<11.0	NA	<12.0	NA
2-Nitroaniline	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
2-Nitrophenol	- -	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
3&4-Methylphenol	- -	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
3,3'-Dichlorobenzidine	5	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
3-Nitroaniline	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
4,6-Dinitro-2-methylphenol	- -	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
4-Bromophenyl-phenylether	- -	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
4-Chloro-3-Methylphenol	- -	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
4-Chloroaniline	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
4-Chlorophenyl-phenylether	- -	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
4-Nitroaniline	5	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
4-Nitrophenol	- -	<20.0	<22.0 J	<24.0	<25.0 J	<22.0	<24.0 J	<24.0 J	<22.0	<25.0 J	<24.0	<25.0 J
Acenaphthene	20	3.80	<2.20	9.90	4.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Acenaphthylene	- -	0.870 J	<2.20	3.10	1.00 J	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50

See Notes on Page 13.

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Location ID: / Sample Depth(ft BGS): / Date Collected:	NYSDEC Groundwater Standards and Guidance Values	MW-28D 18 - 28		MW-28S 4 - 14		MW-29D 35 - 45		MW-29S 5 - 15	MW-30D 24 - 34		MW-30S 5 - 15	
		06/25/12	11/05/13	06/25/12	11/05/13	06/26/12	11/06/13	11/06/13	06/26/12	11/06/13	06/27/12	11/06/13
Semivolatile Organics (Cont.)												
Acetophenone	- -	NA	<11.0	NA	<13.0	NA	<12.0	<12.0	NA	<12.0	NA	<13.0
Anthracene	50	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Atrazine	7.5	NA	<11.0	NA	<13.0	NA	<12.0	<12.0	NA	<12.0	NA	<13.0
Benzaldehyde	- -	NA	<11.0	NA	<13.0	NA	<12.0	<12.0	NA	NA	NA	NA
Benzo(a)anthracene	0.002	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Benzo(a)pyrene	- -	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Benzo(b)fluoranthene	0.002	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Benzo(g,h,i)perylene	- -	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Benzo(k)fluoranthene	0.002	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
bis(2-Chloroethoxy)methane	5	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
bis(2-Chloroethyl)ether	1	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
bis(2-Chloroisopropyl)ether	- -	<5.10	NA	<5.90	NA	<5.60	NA	NA	<5.60	NA	<5.90	NA
bis(2-Ethylhexyl)phthalate	5	<2.00 B	<2.20	<2.40	<2.50	3.50	0.780 J	<2.40	<2.20	<2.50	0.720 J	2.30 J
Butylbenzylphthalate	50	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Caprolactam	- -	NA	<11.0	NA	<13.0 J	NA	<12.0 J	<12.0 J	NA	<12.0 J	NA	<13.0 J
Carbazole	- -	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Chrysene	0.002	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Dibenzo(a,h)anthracene	- -	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Dibenzofuran	- -	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Diethylphthalate	50	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Dimethylphthalate	50	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Di-n-Butylphthalate	50	<5.10	<5.50	<5.90 B	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90 B	<6.30
Di-n-Octylphthalate	50	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Fluoranthene	50	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Fluorene	50	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Hexachlorobenzene	0.04	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Hexachlorobutadiene	0.5	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Hexachlorocyclopentadiene	5	<10.0	<11.0 J	<12.0	<13.0 J	<11.0 J	<12.0 J	<12.0 J	<11.0	<12.0 J	<12.0	<13.0 J
Hexachloroethane	5	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Indeno(1,2,3-cd)pyrene	0.002	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Isophorone	50	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Naphthalene	10	<2.00 B	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20 B	<2.50	<2.40	<2.50
Nitrobenzene	0.4	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
N-Nitroso-di-n-propylamine	- -	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
N-Nitrosodiphenylamine	50	<5.10	<5.50	<5.90	<6.30	<5.60	<6.00	<5.90	<5.60	<6.20	<5.90	<6.30
Pentachlorophenol	- -	<10.0	<11.0	<12.0	<13.0	<11.0	<12.0	<12.0	<11.0	<12.0	<12.0	<13.0
Phenanthrene	50	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Phenol	1	<5.10	<5.50 J	<5.90	<6.30 J	<5.60 J	<6.00 J	<5.90 J	<5.60	<6.20 J	<5.90	<6.30 J
Pyrene	50	<2.00	<2.20	<2.40	<2.50	<2.20	<2.40	<2.40	<2.20	<2.50	<2.40	<2.50
Total PAHs	- -	20.0 J	NA	31.0	NA	18.7	NA	NA	18.6 J	NA	20.4	NA

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Location ID: / Sample Depth(ft BGS): / Date Collected:	NYSDEC Groundwater Standards and Guidance Values	MW-28D 18 - 28		MW-28S 4 - 14		MW-29D 35 - 45		MW-29S 5 - 15	MW-30D 24 - 34		MW-30S 5 - 15	
		06/25/12	11/05/13	06/25/12	11/05/13	06/26/12	11/06/13	11/06/13	06/26/12	11/06/13	06/27/12	11/06/13
Inorganics												
Aluminum	- -	237	187 B	376	115 B	76.2 B	1,580	382	1,230	120 B	62,100	5,470
Antimony	3	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	25	<4.00	<4.00	<4.00 B	4.90	<4.00	<4.00	<4.00	<4.10 B	<4.00	**77.7**	8.20
Barium	1,000	170	188	145	183	179	22.5 B	105	280	329	808	210
Beryllium	- -	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	3.20 B	0.300 B
Cadmium	5	<4.00	3.90 B	**5.70**	<4.00	<4.00	<4.00	0.700 B	<4.00	<4.00	**19.2**	1.80 B
Calcium	- -	101,000	88,800	72,100	84,800	91,700	20,900	86,800	86,900	81,400	260,000	112,000
Chromium	50	<10.0	<10.0	<10.0	<10.0	<10.0	9.60 B	<10.0	<10.0 B	<10.0	**92.0**	8.20 B
Cobalt	- -	<50.0 B	0.700 B	<50.0	<50.0	<50.0	1.00 B	0.900 B	<50.0 B	<50.0	61.6	7.60 B
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	10.3 B	<25.0	4.80 B	<25.0	**216**	14.5 B
Cyanide	200	<10.0	<10.0	**240**	200	<10.0	<10.0	110	<10.0	<10.0	16.0	14.0
Iron	300	**931**	**537**	**3,140**	**3,170**	28.9 B	**1,650**	**435**	**2,320**	**332**	**142,000**	**9,620**
Lead	25	<5.00	<5.00	<5.00	<5.00	<5.00	4.50 B	<5.00	<5.00	<5.00	**132**	6.80
Magnesium	- -	22,800	22,000	8,440	9,050	18,600	1,390 B	14,200	19,600	22,100	57,200	15,000
Manganese	300	**449**	**569**	**969**	**1,150**	<15.0 B	43.9	**437**	181	287	**6,830**	**1,650**
Mercury	0.7	<0.200	<0.200	<0.200	<0.200	0.0800 B	<0.200	<0.200	<0.200	<0.200	**0.840**	<0.200
Nickel	100	<40.0	3.40 B	<40.0 B	0.800 B	<40.0	27.9 B	3.00 B	<40.0 B	0.700 B	**132**	10.5 B
Potassium	- -	1,000 B	891 B	2,040 B	2,130 B	1,230 B	997 B	2,400 B	1,330 B	835 B	11,300	4,300 B
Selenium	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Silver	50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Sodium	- -	41,400	37,300	214,000	317,000	60,900	2,280 B	72,900	42,900	31,700	382,000	463,000
Thallium	- -	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vanadium	- -	<10.0	<10.0	<10.0	<10.0	<10.0	6.00 B	<10.0	<10.0 B	<10.0	112	12.2
Zinc	2,000	4.70 B	5.00 B	4.60 B	4.70 B	<20.0	63.9	8.90 B	18.5 B	4.60 B	839	46.0

See Notes on Page 13.

Table 2
Groundwater Analytical Results (ppb)

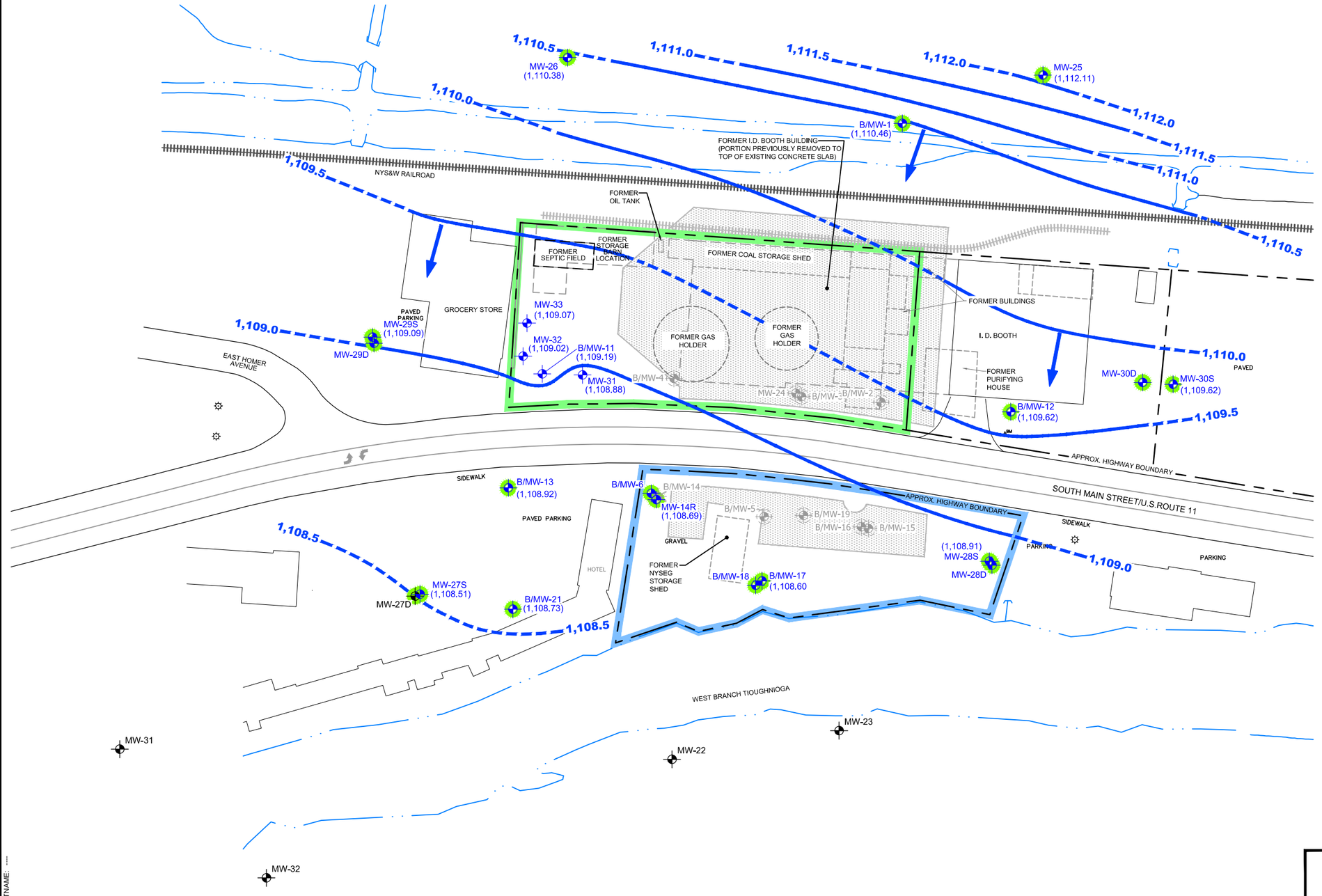
Baseline and Post-ISS Groundwater Monitoring
New York State Electric & Gas Corporation
Cortland-Homer Former MGP Site, Homer, New York

Notes:

1. Baseline samples collected by ARCADIS from June 25-27, 2012, and post-in-situ soil solidification (ISS) samples collected by ARCADIS from November 5-6, 2013
2. Laboratory analysis was performed by Accutest Laboratories of Marlborough, Massachusetts for
   - Volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) SW-846 Method 8260B
   - Semi-volatile organic compounds (SVOCs) using USEPA SW-846 Method 8270C.
   - Inorganic constituents using USEPA SW-846 Methods 6010, 7470, and 9012.
3. Concentrations reported in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb)
4. Data qualifiers are defined as follows:
   J - Indicates an estimated value.
   < - Indicates that the compound was analyzed for but not detected. The associated value is the compound quantitation limit
   B - Indicates that the analyte was also detected in the associated method blank.
   D - Indicates that the analyte was quantified using a second dilution.
5. NYSDEC groundwater standards/guidance values are from the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGS) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1) dated June 1998, revised April 2000 and June 2004
6. Shading indicates that the results exceeds the water quality standard/guidance value.
7. -- Indicates that no water quality standard or guidance value is available for this compound
8. [ ] Results shown in brackets represent field duplicates.
9. Results have been validated in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II Standard Operating Procedures, and the NYSDEC Analytical Services Protocol
10. bgs = below ground surface.

ARCADIS

Figure



LEGEND:

- EXISTING MONITORING WELL IN MONITORING NETWORK
- FORMER MONITORING WELL LOCATION (DECOMMISSIONED IN JULY/AUGUST 2012)
- EXISTING MONITORING WELL NOT IN MONITORING NETWORK
- DESTROYED MONITORING WELL
- WELLS SAMPLIED IN MONITORING NETWORK
- GROUNDWATER CONTOUR (0.5 FT. INTERVAL) (DASHED WHERE INFERRED)
- (1,109.62) GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- REMOVED/FORMER BUILDINGS
- FORMER MGP STRUCTURE
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE HIGHWAY BOUNDARY
- ISS MONOLITH
- OPERABLE UNIT 1
- OPERABLE UNIT 2

NOTES:

1. BASEMAP SUPPLIED BY AECOM OF LATHAM, NEW YORK DRAWING NUMBER 3 AT A SCALE OF 1"=60', ENTITLED "NYSEG - REMEDIAL DESIGN FOR FORMER CORTLAND-HOMER MGP SITE" DATED APRIL 16, 2012.
2. BASE MAPPING COMPILED FROM VARIOUS SOURCES INCLUDING NEW YOUR STATE ELECTRIC & GAS (NYSEG) EXISTING PLANIMETRIC AND UTILITY INFORMATION, DIGITIZED INFORMATION FROM NYSDOT RECORD PLANS TITLED RECONSTRUCTION OF ROUTE 11 IN THE TOWN OF CORTLANDVILLE AND VILLAGE OF HOMER - DATED 5-17-02, DIGITIZED AERIAL IMAGERY FROM THE NEW YORK STATE GIS CLEARINGHOUSE, AND A FIELD SURVEY PERFORMED BY AECOM - DATED MAY 13, 2011.
3. FORMER SEPTIC SYSTEM AND OIL TANK TAKEN FROM A PLAN ENTITLED "INVESTIGATION OF FORMER COAL GASIFICATION SITES", DATED 1987 BY E.C. JORDAN CO.
4. THE LOCATION OF MONITORING WELLS MW-6, -11, -14R, -17, -18, -31, -32 AND -33 WERE SURVEYED ON NOVEMBER 21, 2013 BY J. OLMSTEAD & S. HOPE. ALL OTHER MONITORING WELL LOCATIONS ARE APPROXIMATE.

0 80' 160'

GRAPHIC SCALE

NYSEG
FORMER CORTLAND-HOMER MGP SITE
HOMER, NEW YORK

POST ISS GROUNDWATER MONITORING WATER TABLE MAP - NOVEMBER 5, 2013

ARCADIS

FIGURE 1

CITY:SYRACUSE, NY DIV/GROUP:ENV/REM-W/IM-DV DB: A. SCHILLING, R. BASSETT, E. KRAHMER PM: J. BRUSSEL TM: J. BRUSSEL TR: M. HYSELL LYR:ON=*;OFF=*REF*
G:\ENV\CAD\SYRACUSE\ACTIB0013123\0060\0001\DWG\13123W01.dwg LAYOUT: 1 SAVED: 1/24/2014 4:53 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/24/2014 4:56 PM BY: KRAHMER, ERIC
XREFS: IMAGES: PROJECTNAME: ----
13123X00
13123X01
13123X02

ARCADIS

Attachment A

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

Site Former MGP — **NYSEG Cortland/Homer, NY** — **Event:** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-1
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:	50s Cloudy	**Time In:**	1340 **Time Out:**

Well Information

Depth to Water:	5.79	(feet TIC)
Total Depth:	23.62	(feet TIC)
Length of Water Column:	17.83	(feet)
Volume of Water in Well:	2.89	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	~18	(feet TIC)

Well Type:	Flushmount	(Stick-Up)
Well Material:	(Stainless Steel)	PVC
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	1"	(2") Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 80 (min) @ 1445

Average Pumping Rate: 200 (ml/min) Water-Quality Meter Type: Horiba

Total Volume Removed: ~2gal (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1445	1450	1455	1500	1505	1510	1515	1520	1525	1530	1535		
Volume Purged (gal)													
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	~~200~~		
Depth to Water (ft.)	5.82	5.81	5.82	5.82	5.85	5.85	5.85	5.85	5.85	5.85	S		
pH	7.75	7.79	7.79	7.77	7.75	7.69	7.67	7.64	7.60	7.58	A		
Temp. (C)	16.22	15.17	15.01	14.46	14.29	14.18	14.04	13.96	13.74	13.88	m		
Conductivity (mS/cm)	.655	.662	.666	.668	.671	.672	.674	.674	.679	.679	P		
Dissolved Oxygen (mg/l)	3.92	2.76	2.42	2.18	1.31	.89	.30	0	0	0	L		
ORP (mV)	177	185	190	194	181	129	117	107	~~103~~ 113	109	E		
Turbidity (NTU)	57.8	42.2	416	31.5	24.3	24.1	24.0	21.5	21.7	23.3	D		
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW1 (2013110G)	Sample Time: 1535	
MS/MSD:	Yes (No)	
Duplicate: N	Yes (No)	
Duplicate ID —	Dup. Time: —	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Odorless, Clear

Final Purge:

Same as Initial

GROUNDWATER SAMPLING LOG

Site *Former MGP* — ***NYSEG Cortland/Homer, NY*** — ***Event:*** *November GW Sampling*

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-6
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:		**Time In:**	1500 **Time Out:**

Well Information

Depth to Water:	4.20	(feet TIC)
Total Depth:	25.40	(feet TIC)
Length of Water Column:	21.2	(feet)
Volume of Water in Well:	3.46	(gal)
Screen Interval:	Unknown	(feet)
Depth to pump Intake:	23	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	(Stainless Steel)	PVC
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	1"	(2") Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	45	(min)	15:10	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	~2.5	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1515	1520	1525	1530	1535	1540	1545	1550	1555	1600			
Volume Purged (gal)	L												
Rate (mL/min)	250	250	250	250	250	250	250	250	250	S			
Depth to Water (ft.)	4.21	4.21	4.21	4.21	4.22	4.22	4.22	4.22	4.22	A			
pH	8.04	7.95	7.93	7.90	7.89	7.87	7.86	7.86	7.85	M			
Temp. (C)	13.67	13.72	13.60	13.50	13.58	14.18	13.91	13.87	13.73	P			
Conductivity (mS/cm)	.620	0.621	.622	.621	.626	.626	.626	.627	.629	L			
Dissolved Oxygen (mg/l)	3.46	3.16	3.12	3.14	3.28	2.80	2.74	2.57	2.54	E			
ORP (mV)	249	258	262	266	267	270	274	274	275	D			
Turbidity (NTU)	35.5	30.9	28.9	26.3	27.7	29.2	26.4	27.0	25.8				
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-6 20131105	Sample Time: 1600	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: /	Dup. Time: /	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — **NYSEG Cortland/Homer, NY** — **Event:** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-12
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:		**Time In:**	1110 **Time Out:**

Well Information

Depth to Water:	5.61	(feet TIC)
Total Depth:	11.6	(feet TIC)
Length of Water Column:	5.99	(feet)
Volume of Water in Well:	0.98	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	9	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	(Stainless Steel)	PVC
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	1"	(2") Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	30	(min)		
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	2.0	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1 1210 ~~H20~~	2 1215	3 1220	4 1225	5 1230	6 1235	7 1240	8	9	10	11	12	13
Volume Purged (gal)	0	0.1	0.2	0.3	0.4	0.5							
Rate (mL/min)	~~260~~	250	250	250	250	250	S						
Depth to Water (ft.)	5.62	5.62	5.63	5.63	5.63	5.64	A						
pH	7.12	6.96	6.92	6.88	6.87	6.87	M						
Temp. (C)	16.41	15.80	15.74	15.66	15.51	15.48	P						
Conductivity (mS/cm)	.846	.862	.866	.868	.870	.870	L						
Dissolved Oxygen (mg/l)	8.15	0	0	0	0	0	E						
ORP (mV)	314	329	328	327	326	326	D						
Turbidity (NTU)	52	47.1	43.5	41.5	39.5	38.5							
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-12(20131106)	Sample Time:	1240
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge: Set up on well @ 11:10 → battery issues w/ pump, no H2O until 1117. slow to fill flow-through cell.

Final Purge: 1125 – still not enough water in flow-through cell to take reading – will wait to connect to vehicle for power (Battery charged 11/5 pm)

1210 Resume pumping w/ vehicle battery

GROUNDWATER SAMPLING LOG

Site Former MGP — **NYSEG Cortland/Homer, NY** — **Event:** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-13
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:		**Time In:**	850 **Time Out:**

Well Information

Depth to Water:	4.55	(feet TIC)
Total Depth:	31.66	(feet TIC)
Length of Water Column:	27.11	(feet)
Volume of Water in Well:	4.42	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	~24	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	(Stainless Steel)	PVC	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	40	(min)	@ 850	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horriba
Total Volume Removed:	~3.0	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	900	905	910	915	920	925	930	935	0940				
Volume Purged (gal)	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7					
Rate (mL/min)	250	250	250	250	250	250	250	250	S				
Depth to Water (ft.)	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	A				
pH	7.50	7.28	7.31	7.37	7.44	7.40	7.41	7.41	m				
Temp. (C)	11.48	11.98	12.75	13.00	13.28	13.48	13.49	13.54	p				
Conductivity (mS/cm)	0.212	0.594	.6916	.700	.701	.701	.703	.702	L				
Dissolved Oxygen (mg/l)	4.77	4.96	4.31	3.87	2.51	1.81	1.76	1.72	E				
ORP (mV)	282	291	286	286	287	287	288	288	D				
Turbidity (NTU)	119	94	78	71	67	64	64	63					
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-13(20131106)	Sample Time: 940	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-14R
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:	46. Cloudy	**Time In:**	1500 **Time Out:**

Well Information

Depth to Water:	4.09	(feet TIC)
Total Depth:	13.05	(feet TIC)
Length of Water Column:	8.96	(feet)
Volume of Water in Well:	1.46	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	11	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	45	(min)	15:10	
Average Pumping Rate:	256	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	3.0	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1520	1525	1530	1535	1540	1545	1550	1555	1600				
Volume Purged (gal)	0												
Rate (mL/min)	250	250	250	250	250	250	250	250	S				
Depth to Water (ft.)	4.12	4.11	4.11	4.11	4.11	4.11	4.11	4.11	A				
pH	7.07	7.06	7.06	7.05	7.05	7.06	7.06	7.05	m				
Temp. (C)	14.51	14.57	14.62	14.65	14.54	14.44	14.50	14.52	P				
Conductivity (mS/cm)	2.30	2.31	2.36	2.39	2.36	2.35	2.35	2.38	L				
Dissolved Oxygen (mg/l)	0	0	0	0	0	0	0	0	E				
ORP (mV)	-41	-52	-56	-57	-60	-59	-60	-60	D				
Turbidity (NTU)	11.9	9.7	8.6	8.6	8.3	8.2	8.0	7.8					
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-14R(20131105)	Sample Time:	1600
MS/MSD:	Yes	(No)
Duplicate:	Yes	(No)
Duplicate ID:	Dup. Time:	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-17
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:	40s Cloudy	**Time In:**	1310 **Time Out:**

Well Information

Depth to Water:	6.12	(feet TIC)
Total Depth:	10.50	(feet TIC)
Length of Water Column:	4.38	(feet)
Volume of Water in Well:	0.71	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	9	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	(Stainless Steel)	PVC	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	40	(min)		
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	~3	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1335	1340	1345	1350	1355	1400	1405	1410	1415				
Volume Purged (gal)	0												
Rate (mL/min)	250	250	250	250	250	250	250	250	S				
Depth to Water (ft.)	6.15	6.15	6.15	6.15	6.15	6.15	6.15	6.15	A				
pH	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	M				
Temp. (C)	13.99	14.06	14.16	14.13	14.16	14.13	14.23	14.29	P				
Conductivity (mS/cm)	0.717	0.715	0.714	0.716	0.717	0.716	0.714	0.713	L				
Dissolved Oxygen (mg/l)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E				
ORP (mV)	-120	-121	-123	-124	-125	-126	-126	-126	D				
Turbidity (NTU)	6.9	6.6	6.5	6.5	7.5	6.0	4.5	3.6					
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-17 (20131105)		Sample Time: 1415
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-18
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:		**Time In:**	1310 **Time Out:**

Well Information

Depth to Water:	6.01	(feet TIC)
Total Depth:	30.08	(feet TIC)
Length of Water Column:	24.07	(feet)
Volume of Water in Well:	3.93	(gal)
Screen Interval:	Unknown	(feet)
Depth to pump Intake:	~18	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	(Stainless Steel)	PVC	
Well Locked:	(Yes)	No	
Measuring Point Marked:	(Yes)	No	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	55 (min)		
Average Pumping Rate:	250 (ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	~3.5 (gal)	Did well go dry: Yes	(No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1335	1340	1345	1350	1355	1400	1405	1410	1415	1420	1425	1430	
Volume Purged (gal)	0												
Rate (mL/min)	250	250	250	250	250	250	250	250	250	250	250	S	
Depth to Water (ft.)	6.05	6.07	6.06	6.05	6.06	6.06	6.06	6.06	6.06	6.06	6.06	A	
pH	7.46	7.82	8.14	8.14	8.14	8.16	8.16	8.15	8.15	8.15	8.15	M	
Temp. (C)	14.28	14.37	14.23	14.13	14.11	14.13	14.21	14.22	14.21	14.21	14.20	P	
Conductivity (mS/cm)	0.386	0.386	0.386	0.390	0.390	0.394	0.399	0.400	0.454	0.454	0.455	L	
Dissolved Oxygen (mg/l)	6.31	4.28	3.14	2.63	2.55	2.27	0.96	0.00	0.00	0.00	0.00	E	
ORP (mV)	282	280	273	272	272	271	269	260	262	260	260	D	
Turbidity (NTU)	35.0	29	8.5	7.5	7.7	6.6	6.3	5.9	6.6	6.0	6.0		
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-18(20131105)	Sample Time: 1430	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	/	Dup. Time: /
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — **NYSEG Cortland/Homer, NY** — ***Event:*** November GW Sampling

Sampling Personnel: Laura Zuranski/Rebecca Hensel
Well ID: MW-21
Client / Job Number: NYSEG / B0013123.0002
Date: 11/6/13
Weather: 50s Partly Cloudy
Time In: ~~800~~ 850 **Time Out:**

Well Information

Depth to Water:	4.16	(feet TIC)
Total Depth:	36.95	(feet TIC)
Length of Water Column:	32.79	(feet)
Volume of Water in Well:	5.35	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	~32 ~~ft~~	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	(Stainless Steel)	~~PVC~~	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 45 (min) @ 850
Average Pumping Rate: 250 (ml/min) Water-Quality Meter Type: Horriba
Total Volume Removed: ~2.5 (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	855	900	905	910	915	920	925	930	935				
Volume Purged (gal)													
Rate (mL/min)	~~350~~	250	250	250	250	250	250	250	S				
Depth to Water (ft.)	4.25	4.21	4.21	4.21	4.21	4.21	4.21	4.21	A				
pH	7.57	7.49	7.41	7.32	7.23	7.18	7.14	7.12	M				
Temp. (C)	15.03	15.24	15.29	15.23	15.06	14.98	14.81	14.78	P				
Conductivity (mS/cm)	.649	.670	.672	.668	.662	.659	.657	.656	L				
Dissolved Oxygen (mg/l)	6.32	4.90	2.77	1.39	0	0	0	0	E				
ORP (mV)	206	205	205	206	206	204	203	201	|				
Turbidity (NTU)	25.2	6.5	4.9	4.2	4.2	4.4	4.6	4.3	|				
Notes:									|				

Sampling Information

Analyses	#	Laboratory
TAL VOCs	~~3~~	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-21 (20131106)	Sample Time: 935	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge: Clear, odorless

Final Purge: Same as inital

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-25
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:	50s Cloudy	**Time In:**	1330 **Time Out:**

Well Information

Depth to Water:	5.32	(feet TIC)
Total Depth:	6.20	(feet TIC)
Length of Water Column:	.88	(feet)
Volume of Water in Well:	.143	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	~6	(feet TIC)

Well Type:	Flushmount	(Stick-Up)	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 45 (min) @ 1330

Average Pumping Rate: 250 (ml/min) Water-Quality Meter Type: Horiba

Total Volume Removed: ~2.5 (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1335	1340	1345	1350	1355	1400	1405	1410	1415				
Volume Purged (gal)													
Rate (mL/min)	250	250	250	250	250	250	250	250					
Depth to Water (ft.)	5.46	5.42	5.45	5.45	5.45	5.46	5.46	5.46	S				
pH	7.53	7.36	7.19	7.11	7.05	7.06	7.06	7.06	A				
Temp. (C)	14.67	14.90	15.87	15.65	15.04	14.52	14.54	14.56	m				
Conductivity (mS/cm)	.760	.750	.749	.752	.757	.750	.747	.749	P				
Dissolved Oxygen (mg/l)	0	0	0	0	0	0	0	0	L				
ORP (mV)	278	45	-9	-15	-31	-38	-35	-36	E				
Turbidity (NTU)	48.9	14.0	30.5	31.2	12.2	0	0	0					
Notes:									/				

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW25(20311106)	Sample Time: 1415	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID —	Dup. Time: —	
Chain of Custody Signed By:	L. Zuranski.	

Problems / Observations

Initial Purge:

Clear with Biological Film & Algae

Final Purge:

Same As Initial

GROUNDWATER SAMPLING LOG

Site Former MGP | ***NYSEG Cortland/Homer, NY*** | ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-26
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:		**Time In:**	1600 **Time Out:**

Well Information

Ref

Depth to Water:	~~7.80~~ 7.62	(feet TIC)
Total Depth:	61.51	(feet TIC)
Length of Water Column:	53.79	(feet)
Volume of Water in Well:	7.56	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	~52	(feet TIC)

Well Type:	Flushmount	(Stick-Up)		
Well Material:	Stainless Steel	(PVC)		
Well Locked:	(Yes)	No		
Measuring Point Marked:	(Yes)	No		
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 35 (min) @ 1605

Average Pumping Rate: 250 (ml/min) Water-Quality Meter Type: Horriba

Total Volume Removed: ~22.0 (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1610	1615	1620	1625	1630	1635	1640						
Volume Purged (gal)													
Rate (mL/min)	250	250	250	250	250	250	D						
Depth to Water (ft.)	7.67	7.71	7.71	7.71	7.71	7.71	S						
pH	8.11	8.17	8.18	8.20	8.20	8.21	A						
Temp. (C)	13.97	13.45	13.07	13.05	13.01	12.86	M						
Conductivity (mS/cm)	.579	.578	.579	.578	.578	.578	P						
Dissolved Oxygen (mg/l)	9.79	9.12	8.72	8.38	8.37	8.39	L						
ORP (mV)	213	222	230	235	238	240	E						
Turbidity (NTU)	64.2	42.7	32.5	24.2	21.3	19.4							
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW26(20131106)	Sample Time: 1640	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID —	Dup. Time: —	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Clear & odorless

Final Purge:

Same as Initial

GROUNDWATER SAMPLING LOG

Site *Former MGP* — ***NYSEG Cortland/Homer, NY*** — ***Event:*** *November GW Sampling*

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-27S
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:		**Time In:** 1050	**Time Out:**

Well Information

Depth to Water:	3.96	(feet TIC)
Total Depth:	12.11	(feet TIC)
Length of Water Column:	8.15	(feet)
Volume of Water in Well:	1.33	(gal)
Screen Interval:	Unknown	(feet)
Depth to pump Intake:	10	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	1"	(2") Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 40 (min) on 1100

Average Pumping Rate: 250 (ml/min) Water-Quality Meter Type: Horiba

Total Volume Removed: 2.5 (gal) Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1110	1115	1120	1125	1130	1135	1140	1150					
Volume Purged (gal)													
Rate (mL/min)	250	250	250	250	250	250	250	S					
Depth to Water (ft.)	4.06	4.00	4.01	4.01	4.00	4.00	4.00	A					
pH	7.23	7.15	7.10	7.08	7.12	7.11	7.11	M					
Temp. (C)	13.63	13.12	13.14	13.13	13.14	13.19	13.14	P					
Conductivity (mS/cm)	.368	0.306	0.305	.302	.303	.303	.302	L					
Dissolved Oxygen (mg/l)	1.81	0.71	0.25	0.00	0.00	0.00	0.00	E					
ORP (mV)	229	224	223	224	224	225	225	D					
Turbidity (NTU)	58.1	123	115	90.5	165.1	55.3	46.6						
Notes:		DUP-1 collected.											

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-27S (20131105)		Sample Time:
MS/MSD:	Yes	(No)
Duplicate:	(Yes)	No
Duplicate ID DUP-1		Dup. Time: 1150
Chain of Custody Signed By: L. Zuranski		

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-27D
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:		**Time In:** 1050	**Time Out:**

Well Information

Depth to Water:	3.66	(feet TIC)
Total Depth:	33.16	(feet TIC)
Length of Water Column:	29.50	(feet)
Volume of Water in Well:	4.81	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	23'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up		
Well Material:	Stainless Steel	(PVC)		
Well Locked:	Yes	(No)		
Measuring Point Marked:	(Yes)	No		
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	35	(min)	0.7 11100	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horriba
Total Volume Removed:	~2	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1115	1120	1125	1130	1135	1140	1150						
Volume Purged (gal)	0												
Rate (mL/min)	250	250	250	250	250	250	S						
Depth to Water (ft.)	3.68	3.68	3.68	3.68	3.68	3.68	A						
pH	7.29	7.28	7.24	7.24	7.24	7.24	M						
Temp. (C)	12.64	12.76	12.77	12.78	12.77	12.76	P						
Conductivity (mS/cm)	0.675	0.668	0.663	.662	0.661	0.661	L						
Dissolved Oxygen (mg/l)	7.12	3.30	3.50	3.46	3.13	2.77	E						
ORP (mV)	189	194	196	196	195	195	D						
Turbidity (NTU)	10.4	10.1	7.2	7.3	10.4	6.4							
Notes:		MS/MSD collected											

Sampling Information

Analyses	#	Laboratory
TAL VOCs	9	Accutest
TAL SVOCs	6	Accutest
TAL Metals	3	Accutest
Total Cyanide	3	Accutest
Sample ID: MW-27D(2013)(MS)		Sample Time:
MS/MSD:	(Yes)	No
Duplicate:	Yes	(No)
Duplicate ID	/	Dup. Time: /
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-28S
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:		**Time In:**	1630 **Time Out:**

Well Information

Depth to Water:	2.77	(feet TIC)
Total Depth:	13.22	(feet TIC)
Length of Water Column:	10.45	(feet)
Volume of Water in Well:	1.70	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	12	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	Yes	(No)
Measuring Point Marked:	(Yes)	No
Well Diameter:	1"	(2") Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	35	(min)	@ 16:40	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	2.6	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1640	1645	1650	1655	1700	1705	1710						
Volume Purged (gal)	0	0.1	0.2	0.3	0.4	0.6							
Rate (mL/min)	250	250	250	250	250	250	S						
Depth to Water (ft.)	2.84	2.84	2.85	2.84	2.84	2.84	A						
pH	7.43	7.37	7.31	7.28	7.28	7.29	M						
Temp. (C)	12.95	13.04	13.23	13.16	13.07	13.02	P						
Conductivity (mS/cm)	1.85	1.87	1.92	1.94	1.93	1.93	L						
Dissolved Oxygen (mg/l)	2.30	0	0	0	0	0	E						
ORP (mV)	-56	-64	-72	-75	-77	-78	D						
Turbidity (NTU)	15.1	9.2	10	6	6	5							
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-28S 20131105	Sample Time: 1710	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** *November GW Sampling*

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-28D
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/5/13
Weather:		**Time In:**	1620 **Time Out:**

Well Information

Depth to Water:	2.45	(feet TIC)
Total Depth:	26.80	(feet TIC)
Length of Water Column:	24.15	(feet)
Volume of Water in Well:	3.94	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	24	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	35	(min)	@ 16:40	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	~1	(gal)	Did well go dry:	Yes / No

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1640	1645	1650	1655	1700	1705	1710						
Volume Purged (gal)	0	0.1	0.2	0.3	0.5	0.7	S						
Rate (mL/min)	250	250	250	250	250	250	A						
Depth to Water (ft.)	2.70	2.70	2.70	2.70	2.70	2.70	M						
pH	7.44	7.38	7.27	7.24	7.23	7.22	P						
Temp. (C)	13.93	13.95	13.96	13.88	13.92	13.88	L						
Conductivity (mS/cm)	.644	.1641	.637	.635	.635	.634	E						
Dissolved Oxygen (mg/l)	1.47	1.43	1.34	1.19	1.05	0.89	D						
ORP (mV)	80	87	106	118	124	125							
Turbidity (NTU)	23.5	22.5	20	19.2	19.2	19.4							
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-28D(20131105)	Sample Time: 1710	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP | ***NYSEG Cortland/Homer, NY*** | ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-29S
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:	50s Cloudy	**Time In:**	710 **Time Out:**

Well Information

Depth to Water:	4.76	(feet TIC)
Total Depth:	14.79	(feet TIC)
Length of Water Column:	10.03	(feet)
Volume of Water in Well:	1.64	(gal)
Screen Interval:		(feet)
Depth to pump Intake:	~12	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	50	(min)	@ 7110	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	~3.5	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	725	730	735	740	745	750	755	800	805	810			
Volume Purged (gal)													
Rate (mL/min)	250	250	250	250	250	250	250	250	250	250			
Depth to Water (ft.)			5.03	5.05	5.05	5.05	5.05	5.05	5.05	5.05			
pH	7.01	6.96	6.94	6.92	6.92	6.92	6.92	6.92	6.91	6.92			
Temp. (C)	12.47	12.45	12.40	12.45	12.46	12.44	12.49	12.45	12.55	12.65			
Conductivity (mS/cm)	.789	.784	.780	.782	.783	.781	.780	.777	.776	.775			
Dissolved Oxygen (mg/l)	1.62	0	0	0	0	0	0	0	0	0			
ORP (mV)	65	72	140	189	215	234	245	250	252	253			
Turbidity (NTU)	283	195	122	108	38.4	25.4	18.5	16.6	13.2	12.2			
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-29S (20131106)		Sample Time: 810
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

~~Clear~~ Rst odorless, slight Hue

Final Purge:

Clear, odorless

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-29D
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:		**Time In:**	710 **Time Out:**

Well Information

Depth to Water:	4.81	(feet TIC)
Total Depth:	43.09	(feet TIC)
Length of Water Column:	38.28	(feet)
Volume of Water in Well:	6.25	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	40	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	1" (2")	Other:

* product 0.01" observed 11/5 - not observed on 11/6 - sampled

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	40	(min)	@ 710	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	~0.7	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	745	750	755	800	805	810	815	820	825				
Volume Purged (gal)	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7					
Rate (mL/min)	250	250	250	250	250	250	250	250	S				
Depth to Water (ft.)	5.54	5.54	5.59	5.58	5.58	5.58	5.58	5.58	A				
pH	8.35	8.01	7.90	7.81	7.75	7.70	7.70	7.71	M				
Temp. (C)	11.68	12.06	12.21	12.32	12.20	12.12	12.03	11.95	P				
Conductivity (mS/cm)	0.135	0.126	0.128	0.127	0.120	0.119	0.116	0.117	L				
Dissolved Oxygen (mg/l)	0	0	0	0	0	0	0	0	E				
ORP (mV)	251	254	255	254	253	253	252	252	D				
Turbidity (NTU)	247	200	165	139	105	98	101	101					
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-29D(20131106)	Sample Time: 825	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: X	Dup. Time: X	
Chain of Custody Signed By:	L. Zuranski	

Initial Purge:

Final Purge:

Problems / Observations

pump issues identified at 720. Reconfigure pump at 740. ~~Return~~ Resume pumping at 740.

GROUNDWATER SAMPLING LOG

Site Former MGP — ***NYSEG Cortland/Homer, NY*** — ***Event:*** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW 305
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:		**Time In:**	1010 **Time Out:**

Well Information

Depth to Water:	5.46	(feet TIC)
Total Depth:	12.05	(feet TIC)
Length of Water Column:	6.59	(feet)
Volume of Water in Well:	1.07	(gal)
Screen Interval:	~~~8.0~~	(feet)
Depth to pump Intake:	~8.0	(feet TIC)

Well Type:	(Flushmount)	Stick-Up	
Well Material:	Stainless Steel	(PVC)	
Well Locked:	Yes	(No)	
Measuring Point Marked:	Yes	(No)	
Well Diameter:	1"	(2")	Other:

Needs New Road Box Completely Cracked.

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 85 (min) @ 1015

Average Pumping Rate: 180 (ml/min) Water-Quality Meter Type: Horiba

Total Volume Removed: ~ 9.0 (gal) Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1020	1025	1030	1035	1040	1045	1050	1055	1100	1105 ~~1100~~	1110	1115	1120
Volume Purged (gal)													
Rate (mL/min)	250	250	180	180	180	180	180	180	180	180	180	180	180
Depth to Water (ft.)	5.54	5.71	5.65	5.65	5.65	5.65	5.65	5.65	5.60	5.65	5.65	5.65	5.65
pH	7.21	7.17	7.13	7.12	7.12	7.11	7.12	7.11	7.11	7.12	7.12	7.11	7.11
Temp. (C)	15.43	15.43	15.36	15.29	15.20	15.10	15.11	15.09	15.08	15.33	15.55	15.62	15.94
Conductivity (mS/cm)	2.65	2.72	2.76	2.80	2.83	2.86	2.86	2.86	2.84	2.80	2.76	2.75	2.73
Dissolved Oxygen (mg/l)	2.14	.27	0	0	0	0	0	0	0	0	0	0	0
ORP (mV)	287 ~~191~~	285	284	282	280	278	276	273	270	262	256	255	252
Turbidity (NTU)	171	167	156	149	156	144	136	133	128	128	134	132	132
Notes:									Pump died Restarted				

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW-305 (2031105)	Sample Time: 1140	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Odorless

Final Purge:

Odorless

GROUNDWATER SAMPLING LOG

Site Former MGP | ***NYSEG Cortland/Homer, NY*** | ***Event:*** November GW Sampling

Sampling Personnel: Laura Zuranski/Rebecca Hensel | **Well ID:** MW 30S

Client / Job Number: NYSEG / B0013123.0002 | **Date:**

Weather: | **Time In:** | **Time Out:**

Well Information

See Page 1

Depth to Water:	(feet TIC)
Total Depth:	(feet TIC)
Length of Water Column:	(feet)
Volume of Water in Well:	(gal)
Screen Interval:	(feet)
Depth to pump Intake:	(feet TIC)

Well Type:	Flushmount	Stick-Up	
Well Material:	Stainless Steel	PVC	
Well Locked:	Yes	No	
Measuring Point Marked:	Yes	No	
Well Diameter:	1"	2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:

Duration of Pumping: (min)

Average Pumping Rate: (ml/min) Water-Quality Meter Type:

Total Volume Removed: (gal) Did well go dry: Yes No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1125	1130	1135	1140									
Volume Purged (gal)													
Rate (mL/min)	180	180	180										
Depth to Water (ft.)	5.65	5.65	5.65	S									
pH	7.10	7.11	7.10	A									
Temp. (C)	16.07	16.06	16.	m									
Conductivity (mS/cm)	2.73	2.73	2.70	P									
Dissolved Oxygen (mg/l)	0	0	0	L									
ORP (mV)	249	247	243	F									
Turbidity (NTU)	143	141	145	D									
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs	3	Accutest
TAL SVOCs	2	Accutest
TAL Metals	1	Accutest
Total Cyanide	1	Accutest
Sample ID: MW30S(20311106)	Sample Time: 1140	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By: L. Zuranski		

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site Former MGP | **NYSEG Cortland/Homer, NY** | **Event:** November GW Sampling

Sampling Personnel:	Laura Zuranski/Rebecca Hensel	**Well ID:**	MW-30D
Client / Job Number:	NYSEG / B0013123.0002	**Date:**	11/6/13
Weather:		**Time In:**	1010 **Time Out:**

Well Information

Depth to Water:	5.87	(feet TIC)
Total Depth:	32.07	(feet TIC)
Length of Water Column:	26.20	(feet)
Volume of Water in Well:	4.27	(gal)
Screen Interval:	unknown	(feet)
Depth to pump Intake:	23	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	1"	(2") Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping:	35	(min)	@ 10:10	
Average Pumping Rate:	250	(ml/min)	Water-Quality Meter Type:	Horiba U-52
Total Volume Removed:	~1	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1020	1025	1030	1035	1040	1045	1050						
Volume Purged (gal)	0.1	0.2	0.3	0.4	0.5	0.6							
Rate (mL/min)	250	250	250	250	250	250	S						
Depth to Water (ft.)	5.91	5.91	5.91	5.91	5.91	5.92	A						
pH	7.47	7.35	7.35	7.34	7.34	7.34	M						
Temp. (C)	15.18	14.90	14.89	14.80	14.95	14.95	P						
Conductivity (mS/cm)	.564	.567	.569	.571	.570	0.569	L						
Dissolved Oxygen (mg/l)	0.88	0	0	0	0	0	E						
ORP (mV)	174	165	160	156	149	148	D						
Turbidity (NTU)	54.2	33.9	24.9	22	18	19.6							
Notes:													

Sampling Information

Analyses	#	Laboratory
TAL VOCs		Accutest
TAL SVOCs		Accutest
TAL Metals		Accutest
Total Cyanide		Accutest
Sample ID: MW-30D(20131106)		Sample Time: 1050
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	L. Zuranski	

Problems / Observations

Initial Purge:

Final Purge: