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Date:
March 25, 2015

ARCADIS Project No.:
B00013091 #5

Subject:
NYSEG Clark Street Former MGP Site
December 2014 Semi-Annual NAPL Monitoring

On behalf of NYSEG, this memorandum summarizes the results of the sixth semi-annual non-aqueous phase liquid (NAPL) monitoring event conducted at the Clark Street Former Manufactured Gas Plant (MGP) Site (the site) located in Auburn, New York (Site No. 7-06-008).

A year-long monthly NAPL monitoring program was conducted at the site from January 2010 to May 2011 in general accordance with the New York State Department of Environmental Conservation (NYSDEC) Record of Decision (ROD) (NYSDEC, 2009) and the NYSDEC-approved February 2012 *Remedial Design Work Plan* (RDWP) (ARCADIS, 2010). The objective of the NAPL monitoring program was to gather data related to the presence and location of NAPL collecting in existing site bedrock monitoring wells. Detailed results of the year-long NAPL monitoring program were presented to NYSDEC in a January 25, 2012 Monthly NAPL Monitoring Program – Annual Report. Upon receipt of the annual report, NYSDEC requested (via a February 24, 2012 email to NYSEG) that NAPL monitoring continue at the site until remedial construction commences (anticipated Q2 2015).

As indicated in a June 13, 2012 Additional NAPL Monitoring Activities letter work plan to NYSDEC, additional NAPL monitoring activities will be conducted on a semi-annual basis until upland remedial construction activities begin. The sixth semi-annual NAPL monitoring event was conducted in December 2014. NAPL monitoring activities and results are summarized in the following subsection.

NAPL Monitoring Activities and Results

Semi-annual NAPL monitoring activities were conducted on December 15, 2014. Per NYSEG's August 15, 2012 Semi-Annual NAPL Monitoring memorandum and NYSDEC's September 6, 2012 response letter, the number of wells monitored during the semi-annual NAPL gauging events was limited to those wells

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where NAPL has been visually observed since January 2010. Additionally, note that select bedrock monitoring wells were decommissioned by ARCADIS in November 2013 in support of the forthcoming remedial construction activities. The results of the NAPL monitoring activities are provided in the attached Table 1, and monitoring well locations where NAPL was observed are presented on Figure 1. As summarized in the table below, visual evidence of NAPL was observed in six monitoring wells, including monitoring wells MW-06 and MW-08D for the first time. Approximately 0.1 gallons of NAPL (0.5 gallons of a NAPL/water mixture) was recovered from monitoring well MW-11D.

Monitoring Well	December 2014 Observations
MW-03B	Decommissioned
MW-04B	0.1 ft of NAPL
MW-04D	Trace NAPL blebs
MW-05B	Decommissioned
MW-06	Trace NAPL blebs
MW-06B	Trace NAPL blebs
MW-07B	Decommissioned
MW-08D	Trace NAPL blebs
MW-11D	1.3 ft of NAPL

Recovered NAPL was bailed into a 5-gallon bucket prior to being transferred into a 55-gallon drum. Recovered NAPL and disposable sampling equipment was containerized in labeled, DOT-certified, 55-gallon drums that are stored in a secured drum locker at the site.

Path Forward

Remedial construction is scheduled to commence at the site in May/June 2015. NYSEG will conduct the final semi-annual monitoring event in June 2015.

Table

Table 1
NAPL Collection Well Placement Study - NAPL Monitoring Summary

NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)
MW-01B					
6/11/2010	10.70	---	32.68	---	0.0
7/7/2010	11.53	---	32.69	---	0.0
8/3/2010	11.97	---	32.69	---	0.0
9/22/2010	12.27	---	32.68	---	0.0
10/28/2010	10.11	---	32.68	---	0.0
12/13/2010	9.82	---	32.70	---	0.0
12/28/2010	9.99	---	32.70	---	0.0
1/31/2011	10.42	---	32.70	---	0.0
3/2/2011	9.28	---	32.69	---	0.0
4/1/2011	10.37	---	32.69	---	0.0
4/28/2011	8.03	---	32.70	---	0.0
5/25/2011	10.85	---	32.70	---	0.0
6/28/2012	11.47	---	32.68	---	0.0
12/28/2012	10.40	---	32.68	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	11.25	---	32.67	---	0.0
6/19/2014	12.72	---	32.84	---	0.0
12/15/2014	11.00	---	32.70	---	0.0
<i>Approximate Volume Removed from MW-01B</i>					<i>0.0</i>
MW-01D					
6/11/2010	12.91	---	81.85	---	0.0
7/7/2010	13.86	---	81.85	---	0.0
8/3/2010	14.45	---	81.62	---	0.0
9/22/2010	15.22	---	81.50	---	0.0
10/28/2010	12.25	---	81.41	---	0.0
12/13/2010	11.75	---	81.85	---	0.0
12/28/2010	12.01	---	81.85	---	0.0
1/31/2011	12.63	---	81.80	---	0.0
3/2/2011	11.17	---	81.80	---	0.0
4/1/2011	12.44	---	81.80	---	0.0
4/28/2011	9.61	---	81.79	---	0.0
5/25/2011	12.70	---	81.79	---	0.0
6/28/2012	12.69	---	81.56	---	0.0
12/28/2012	12.25	---	81.65	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	13.45	---	81.88	---	0.0
6/19/2014	15.72	---	81.68	---	0.0
12/15/2014	13.43	---	81.73	---	0.0
<i>Approximate Volume Removed from MW-01D</i>					<i>0.0</i>
MW-02B					
6/11/2010	7.35	---	31.15	---	0.0
7/7/2010	7.86	---	31.16	---	0.0
8/3/2010	8.29	---	31.17	---	0.0
9/22/2010	8.14	---	31.12	---	0.0
10/28/2010	6.76	---	31.17	---	0.0
12/13/2010	6.59	---	31.16	---	0.0
12/28/2010	6.98	---	31.17	---	0.0
1/31/2011	7.79	---	31.17	---	0.0
3/2/2011	6.28	---	31.16	---	0.0
4/1/2011	6.61	---	31.16	---	0.0
4/28/2011	4.85	---	31.17	---	0.0
5/25/2011	6.72	---	31.17	---	0.0
6/28/2012	8.07	---	31.16	---	0.0
12/28/2012	6.72	---	31.16	---	0.0
6/27/2013	Not measured	---	---	---	0.0
Decommissioned in November 2013					
<i>Approximate Volume Removed from MW-02B</i>					<i>0.0</i>
MW-02D					
6/11/2010	7.45	---	72.43	---	0.0
7/7/2010	8.09	---	72.63	---	0.0
8/3/2010	8.47	---	72.27	---	0.0
9/22/2010	8.65	---	72.60	---	0.0
10/28/2010	7.01	---	72.61	---	0.0
12/13/2010	6.87	---	72.46	---	0.0
12/28/2010	6.99	---	72.46	---	0.0
1/31/2011	8.70	---	72.46	---	0.0
3/2/2011	6.44	---	72.60	---	0.0
4/1/2011	7.04	---	72.60	---	0.0
4/28/2011	4.60	---	72.60	---	0.0
5/25/2011	7.45	---	72.60	---	0.0
6/28/2012	8.38	---	72.46	---	0.0
12/28/2012	7.01	---	72.46	---	0.0
6/27/2013	Not measured	---	---	---	0.0
Decommissioned in November 2013					
<i>Approximate Volume Removed from MW-02D</i>					<i>0.0</i>

Table 1
NAPL Collection Well Placement Study - NAPL Monitoring Summary

NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)
MW-03B					
6/11/2010	---	30.51	31.11	0.60	0.4
7/7/2010	7.24	30.86	31.11	0.25	0.2
8/3/2010	7.62	30.34	31.09	0.75	0.5
9/22/2010	7.70	30.72	31.12	0.40	0.15
10/28/2010	6.25	31.00	31.20	0.20	0.0
12/13/2010	---	---	31.07	trace blebs	0.0
12/28/2010	---	---	31.05	trace blebs	0.0
1/31/2011	---	---	31.08	trace blebs	0.0
3/2/2011	---	31.03	31.13	0.10	0.0
4/1/2011	---	31.02	31.12	0.10	0.0
4/28/2011	4.31	30.94	31.09	0.15	0.0
5/25/2011	8.27	30.94	31.09	0.15	0.02
6/28/2012	---	---	---	trace blebs	0.0
12/28/2012	5.49	30.92	31.07	0.15	0.0
6/27/2013	---	30.28	31.08	0.80	1.25
Decommissioned in November 2013					
<i>Approximate Volume Removed from MW-03B</i>					<i>2.51</i>
MW-04B					
6/11/2010	7.09	29.25	29.30	0.05	0.0
7/7/2010	5.67	---	29.36	trace blebs	0.0
8/3/2010	7.90	---	29.30	trace blebs	0.0
9/22/2010	8.05	---	29.28	trace blebs	0.0
10/28/2010	6.43	---	29.31	trace blebs	0.0
12/13/2010	6.30	---	29.40	trace blebs	0.0
12/28/2010	7.01	---	29.41	trace blebs	0.0
1/31/2011	7.69	---	29.41	trace blebs	0.0
3/2/2011	6.03	29.33	29.38	0.05	0.0
4/1/2011	6.73	29.33	29.38	0.05	0.0
4/28/2011	4.52	29.37	29.42	0.05	0.0
5/25/2011	6.13	---	29.42	0.00	0.0
6/28/2012	7.95	---	29.36	trace blebs	0.0
12/28/2012	6.62	29.31	29.36	0.05	0.0
6/27/2013	7.76	---	29.34	trace blebs	0.0
12/18/2013	8.45	29.20	29.35	0.15	0.0
6/19/2014	9.22	29.17	29.35	0.18	0.0
12/15/2014	7.37	29.21	29.31	0.10	0.0
<i>Approximate Volume Removed from MW-04B</i>					<i>0.0</i>
MW-04D					
6/11/2010	8.43	77.54	78.24	0.70	0.1
7/7/2010	9.49	---	78.64	trace blebs	0.0
8/3/2010	9.30	---	78.24	trace blebs	0.0
9/22/2010	9.55	---	78.24	trace blebs	0.0
10/28/2010	7.47	---	78.27	trace blebs	0.0
12/13/2010	7.48	77.64	78.24	0.60	0.2
12/28/2010	7.48	78.16	78.26	0.10	0.0
1/31/2011	9.93	78.14	78.64	0.50	0.25
3/2/2011	7.36	78.04	78.64	0.60	0.1
4/1/2011	8.21	78.44	78.64	0.20	0.0
4/28/2011	5.41	78.04	78.24	0.20	0.0
5/25/2011	7.22	78.04	78.24	0.20	0.05
6/28/2012	8.97	---	78.24	trace NAPL	0.0
12/28/2012	7.48	78.04	78.24	0.2	0.0
6/27/2013	8.99	---	78.25	trace blebs	0.0
12/18/2013	9.70	---	78.25	trace blebs	0.0
6/19/2014	10.32	---	78.65	trace blebs	0.0
12/15/2014	8.00	---	77.98	trace blebs	0.0
<i>Approximate Volume Removed from MW-04D</i>					<i>0.71</i>
MW-05B					
6/11/2010	5.10	28.18	28.28	0.10	0.0
7/7/2010	5.84	---	28.50	trace blebs	0.0
8/3/2010	6.21	28.00	28.50	0.50	0.3
9/22/2010	6.24	28.20	28.50	0.30	0.0
10/28/2010	4.53	28.00	28.50	0.50	0.3
12/13/2010	4.31	---	28.50	trace blebs	0.0
12/28/2010	4.61	---	28.51	trace blebs	0.0
1/31/2011	5.11	---	28.51	trace blebs	0.0
3/2/2011	4.00	---	28.50	trace blebs	0.0
4/1/2011	4.81	---	28.50	trace blebs	0.0
4/28/2011	2.54	---	28.50	trace blebs	0.0
5/25/2011	5.30	---	28.50	trace blebs	0.0
6/28/2012	6.25	---	28.50	trace blebs	0.0
12/28/2012	4.91	---	28.50	trace blebs	0.0
6/27/2013	5.55	---	28.54	---	0.0
Decommissioned in November 2013					
<i>Approximate Volume Removed from MW-05B</i>					<i>0.60</i>

Table 1
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NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)
MW-06					
6/28/2012	6.01	---	13.68	---	0.0
12/28/2012	4.78	---	13.68	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	5.19	---	13.69	---	0.0
6/19/2014	6.01	---	13.67	---	0.0
12/15/2014	4.74	---	13.68	trace blebs	0.0
<i>Approximate Volume Removed from MW-06</i>					<i>0.00</i>
MW-06B					
6/11/2010	7.89	---	27.61	---	0.0
7/7/2010	5.40	---	27.71	---	0.0
8/3/2010	7.17	27.63	27.73	0.10	0.0
9/22/2010	7.25	---	27.80	---	0.0
10/28/2010	7.04	27.68	27.78	0.10	0.0
12/13/2010	---	27.55	27.75	0.20	0.5
12/28/2010	---	27.62	27.72	0.10	0.0
1/31/2011	---	27.62	27.72	0.10	0.0
3/2/2011	---	27.38	27.69	0.31	0.0
4/1/2011	7.05	27.49	27.69	0.20	0.0
4/28/2011	4.96	27.60	27.80	0.20	0.0
5/25/2011	7.70	27.60	27.80	0.20	0.05
6/28/2012	6.34	29.68	29.83	0.15	0.0
12/28/2012	5.02	25.73	25.93	0.2	0.0
6/27/2013	5.72	---	25.80	trace blebs	0.0
12/18/2013	5.52	---	25.98	0.16	0.0
6/19/2014	6.30	25.92	26.08	0.16	0.0
12/15/2014	5.36	---	25.78	trace blebs	0.0
<i>Approximate Volume Removed from MW-06B</i>					<i>0.55</i>
MW-07B					
6/11/2010	6.26	28.82	28.92	0.10	0.0
7/7/2010	8.73	29.00	29.10	0.10	0.0
8/3/2010	9.04	29.00	29.10	0.10	0.0
9/22/2010	7.05	29.01	29.11	0.10	0.0
10/28/2010	5.60	---	29.11	trace blebs	0.0
12/13/2010	5.59	---	28.94	trace blebs	0.0
12/28/2010	5.81	---	28.94	trace blebs	0.0
1/31/2011	6.91	29.01	29.11	0.10	0.0
3/2/2011	5.19	20.02	20.12	0.10	0.0
4/1/2011	5.66	28.97	29.12	0.15	0.0
4/28/2011	3.81	28.99	29.11	0.12	0.0
5/25/2011	5.85	28.91	29.11	0.20	0.05
6/28/2012	6.94	---	29.10	trace blebs	0.0
12/28/2012	5.66	28.98	29.10	0.12	0.0
6/27/2013	6.60	---	29.13	trace blebs	0.0
Decommissioned in November 2013					
<i>Approximate Volume Removed from MW-07B</i>					<i>0.05</i>
MW-08D					
6/11/2010	5.99	---	65.34	---	0.0
7/7/2010	6.51	---	65.35	---	0.0
8/3/2010	6.79	---	65.30	---	0.0
9/22/2010	0.07	---	65.35	---	0.0
10/28/2010	5.31	---	65.35	---	0.0
12/13/2010	5.24	---	65.34	---	0.0
12/28/2010	5.58	---	65.34	---	0.0
1/31/2011	6.10	---	65.34	---	0.0
3/2/2011	4.37	---	65.37	---	0.0
4/1/2011	5.36	---	65.37	---	0.0
4/28/2011	2.88	---	65.38	---	0.0
5/25/2011	5.78	---	65.38	---	0.0
6/28/2012	6.42	---	65.36	---	0.0
12/28/2012	5.19	---	65.36	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	7.15	---	65.27	---	0.0
6/19/2014	8.03	---	65.27	---	0.0
12/15/2014	5.96	---	65.18	trace blebs	0.0
<i>Approximate Volume Removed from MW-08D</i>					<i>0.0</i>

Table 1
NAPL Collection Well Placement Study - NAPL Monitoring Summary

NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)
MW-08S					
6/11/2010	6.35	---	6.75	---	0.0
7/7/2010	Dry	---	6.76	---	0.0
8/3/2010	Dry	---	6.75	---	0.0
10/28/2010	5.72	---	6.76	---	0.0
12/13/2010	5.75	---	6.78	---	0.0
12/28/2010	6.01	---	6.78	---	0.0
1/31/2011	6.76	---	6.78	---	0.0
3/2/2011	5.24	---	6.79	---	0.0
4/1/2011	6.09	---	6.80	---	0.0
4/28/2011	4.51	---	6.78	---	0.0
5/25/2011	6.70	---	6.78	---	0.0
6/28/2012	Dry	---	6.78	---	0.0
12/28/2012	Dry	---	6.78	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	6.37	---	6.82	---	0.0
6/19/2014	Dry	---	6.72	---	0.0
12/15/2014	6.07	---	6.77	---	0.0
<i>Approximate Volume Removed from MW-08S</i>					0.0
MW-09D					
6/11/2010	5.91	---	39.81	---	0.0
7/7/2010	6.90	---	39.81	---	0.0
8/3/2010	6.86	---	39.80	---	0.0
9/22/2010	7.09	---	39.80	---	0.0
10/28/2010	5.18	---	39.80	---	0.0
12/13/2010	4.92	---	39.80	---	0.0
12/28/2010	5.10	---	39.81	---	0.0
1/31/2011	5.86	---	39.79	---	0.0
3/2/2011	4.19	---	39.80	---	0.0
4/1/2011	5.42	---	39.80	---	0.0
4/28/2011	3.07	---	39.81	---	0.0
5/25/2011	5.23	---	39.81	---	0.0
6/28/2012	6.91	---	39.80	---	0.0
12/28/2012	4.89	---	39.80	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	6.24	---	39.98	---	0.0
6/19/2014	6.77	---	39.78	---	0.0
12/15/2014	5.74	---	39.70	---	0.0
<i>Approximate Volume Removed from MW-09D</i>					0.0
MW-09S					
6/11/2010	6.45	---	10.70	---	0.0
7/7/2010	7.15	---	10.67	---	0.0
8/3/2010	7.34	---	10.65	---	0.0
10/28/2010	4.80	---	10.66	---	0.0
12/13/2010	5.58	---	10.65	---	0.0
12/28/2010	6.07	---	10.66	---	0.0
1/31/2011	6.81	---	10.66	---	0.0
3/2/2011	5.28	---	10.65	---	0.0
4/1/2011	6.12	---	10.66	---	0.0
4/28/2011	4.88	---	10.67	---	0.0
5/25/2011	6.55	---	10.67	---	0.0
6/28/2012	7.85	---	10.68	---	0.0
12/28/2012	5.71	---	10.68	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	6.58	---	10.68	---	0.0
6/19/2014	7.64	---	10.64	---	0.0
12/15/2014	6.29	---	10.65	---	0.0
<i>Approximate Volume Removed from MW-09S</i>					0.0
MW-10D					
6/11/2010	2.95	---	59.70	---	0.0
7/7/2010	3.79	---	59.71	---	0.0
8/3/2010	4.01	---	59.74	---	0.0
9/22/2010	4.10	---	59.74	---	0.0
10/28/2010	2.80	---	59.73	---	0.0
12/13/2010	2.52	---	59.67	---	0.0
12/28/2010	2.78	---	59.67	---	0.0
1/31/2011	3.14	---	59.67	---	0.0
3/2/2011	2.21	---	59.74	---	0.0
4/1/2011	3.04	---	59.73	---	0.0
4/28/2011	0.78	---	59.74	---	0.0
5/25/2011	3.40	---	59.74	---	0.0
6/28/2012	3.85	---	59.72	---	0.0
12/28/2012	2.61	---	59.72	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	5.12	---	59.77	---	0.0
6/19/2014	8.84	---	59.77	---	0.0
12/15/2014	3.50	---	59.81	---	0.0
<i>Approximate Volume Removed from MW-10D</i>					0.0

Table 1
NAPL Collection Well Placement Study - NAPL Monitoring Summary

NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)	
MW-10S						
6/11/2010	2.45	---	6.25	---	0.0	
7/7/2010	3.12	---	6.30	---	0.0	
8/3/2010	3.34	---	6.27	---	0.0	
10/28/2010	2.65	---	6.31	---	0.0	
12/13/2010	2.80	---	6.30	---	0.0	
12/28/2010	2.90	---	6.30	---	0.0	
1/31/2011	2.99	---	6.30	---	0.0	
3/2/2011	1.68	---	6.26	---	0.0	
4/1/2011	2.65	---	6.26	---	0.0	
4/28/2011	1.97	---	6.27	---	0.0	
5/25/2011	3.17	---	6.27	---	0.0	
6/28/2012	3.34	---	6.29	---	0.0	
12/28/2012	2.22	---	6.29	---	0.0	
6/27/2013	Not measured	---	---	---	0.0	
12/18/2013	4.27	---	6.57	---	0.0	
6/19/2014	4.55	---	6.25	---	0.0	
12/15/2014	2.48	---	6.30	---	0.0	
Approximate Volume Removed from MW-10S					0.0	
MW-11D						
6/11/2010	3.48	---	39.82	trace blebs	0.0	
7/7/2010	4.10	39.71	39.81	0.10	0.0	
8/3/2010	4.35	---	39.81	trace blebs	0.0	
9/22/2010	4.50	39.71	39.81	0.10	0.0	
10/28/2010	2.78	39.70	39.80	0.10	0.0	
12/13/2010	2.65	39.76	39.81	0.05	0.0	
12/28/2010	2.71	39.76	39.81	0.05	0.0	
1/31/2011	3.44	39.71	39.81	0.10	0.0	
3/2/2011	2.32	39.63	39.83	0.20	0.0	
4/1/2011	3.14	39.61	39.81	0.20	0.0	
4/28/2011	1.01	39.64	39.84	0.20	0.0	
5/25/2011	3.78	39.64	39.84	0.20	0.05	
6/28/2012	4.54	---	39.82	trace NAPL	0.0	
12/28/2012	3.23	39.62	39.82	0.20	0.0	
6/27/2013 ¹	4.14	39.51	39.81	0.30	0.5	
12/18/2013	4.25	---	39.87	trace NAPL	0.0	
6/19/2014	5.58	38.38	39.88	1.50	0.2	
12/15/2014	3.63	38.60	39.90	1.30	0.1	
Approximate Volume Removed from MW-11D					0.85	
MW-11S						
6/11/2010	3.48	---	10.50	---	0.0	
7/7/2010	3.92	---	10.51	---	0.0	
8/3/2010	4.03	---	10.50	---	0.0	
10/28/2010	2.56	---	10.51	---	0.0	
12/13/2010	2.50	---	10.52	---	0.0	
12/28/2010	2.77	---	10.52	---	0.0	
1/31/2011	3.43	---	10.52	---	0.0	
3/2/2011	2.30	---	10.52	---	0.0	
4/1/2011	3.03	---	10.52	---	0.0	
4/28/2011	Well under water. Unable to access.					0.0
5/25/2011	3.34	---	10.52	---	0.0	
6/28/2012	4.05	---	10.50	---	0.0	
12/28/2012	2.93	---	10.52	---	0.0	
6/27/2013	Not measured	---	---	---	0.0	
12/18/2013	2.99	---	10.57	---	0.0	
6/19/2014	3.83	---	10.50	---	0.0	
12/15/2014	3.08	---	9.52	---	0.0	
Approximate Volume Removed from MW-11S					0.0	
MW-12D						
6/11/2010	9.42	---	44.58	---	0.0	
7/7/2010	10.86	---	44.57	---	0.0	
8/3/2010	11.15	---	44.60	---	0.0	
9/22/2010	11.75	---	44.56	---	0.0	
10/28/2010	8.68	---	44.57	---	0.0	
12/13/2010	Could not locate					0.0
12/28/2010	Could not locate					0.0
1/31/2011	Could not locate					0.0
3/2/2011	7.65	---	44.57	---	0.0	
4/1/2011	9.14	---	44.56	---	0.0	
4/28/2011	Well under water. Unable to access.					0.0
5/25/2011	10.43	---	44.56	---	0.0	
6/28/2012	11.45	---	44.58	---	0.0	
12/28/2012	9.00	---	44.58	---	0.0	
6/27/2013	Not measured	---	---	---	0.0	
12/18/2013	9.98	---	43.42	---	0.0	
6/19/2014	10.93	---	43.60	---	0.0	
12/15/2014	9.94	---	42.92	---	0.0	
Approximate Volume Removed from MW-12D					0.0	

Table 1
NAPL Collection Well Placement Study - NAPL Monitoring Summary

NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)
MW-13B					
6/11/2010	24.69	---	44.60	---	0.0
7/7/2010	25.01	---	44.55	---	0.0
8/3/2010	25.36	---	44.55	---	0.0
9/22/2010	25.34	---	44.55	---	0.0
10/28/2010	24.09	---	44.58	---	0.0
12/13/2010	23.98	---	44.55	---	0.0
12/28/2010	24.00	---	44.57	---	0.0
1/31/2011	25.11	---	44.57	---	0.0
3/2/2011	24.10	---	44.57	---	0.0
4/1/2011	24.72	---	44.57	---	0.0
4/28/2011	21.99	---	44.58	---	0.0
5/25/2011	24.06	---	44.58	---	0.0
6/28/2012	25.27	---	44.54	---	0.0
12/28/2012	16.99	---	44.54	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	25.00	---	44.29	---	0.0
6/19/2014	26.11	---	44.32	---	0.0
12/15/2014	24.80	---	44.34	---	0.0
<i>Approximate Volume Removed from MW-13B</i>					0.0
MW-14D					
6/11/2010	22.76	---	63.10	---	0.0
7/7/2010	24.63	---	63.10	---	0.0
8/3/2010	30.75	---	63.08	---	0.0
9/22/2010	34.78	---	63.08	---	0.0
10/28/2010	20.57	---	63.08	---	0.0
12/13/2010	18.85	---	63.08	---	0.0
12/28/2010	19.10	---	63.10	---	0.0
1/31/2011	19.79	---	63.10	---	0.0
3/2/2011	18.03	---	63.08	---	0.0
4/1/2011	22.75	---	63.08	---	0.0
4/28/2011	14.26	---	63.14	---	0.0
5/25/2011	28.71	---	63.12	---	0.0
6/28/2012	31.60	---	63.10	---	0.0
12/28/2012	23.29	---	63.10	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	Unable to locate	---	---	---	0.0
6/19/2014	Unable to locate	---	---	---	0.0
12/15/2014	27.55	---	63.17	---	0.0
<i>Approximate Volume Removed from MW-14D</i>					0.0
MW-15D					
6/11/2010	Covered with asphalt debris pile	---	---	---	0.0
7/7/2010	Covered with asphalt debris pile	---	---	---	0.0
8/3/2010	Covered with asphalt debris pile	---	---	---	0.0
9/22/2010	16.47	---	61.71	---	0.0
10/28/2010	Unable to locate	---	---	---	0.0
12/13/2010	Buried with debris	---	---	---	0.0
12/28/2010	Buried with debris	---	---	---	0.0
1/31/2011	Covered with asphalt debris pile	---	---	---	0.0
3/2/2011	Covered with asphalt debris pile	---	---	---	0.0
4/1/2011	Buried with debris	---	---	---	0.0
4/28/2011	Buried with debris	---	---	---	0.0
5/25/2011	Buried with debris	---	---	---	0.0
6/28/2012	Buried with debris	---	---	---	0.0
12/28/2012	Destroyed	---	---	---	0.0
<i>Approximate Volume Removed from MW-15D</i>					0.0
MW-16D					
6/11/2010	9.45	---	64.37	---	0.0
7/7/2010	10.31	---	64.40	---	0.0
8/3/2010	10.62	---	64.35	---	0.0
9/22/2010	11.19	---	64.34	---	0.0
10/28/2010	8.80	---	64.34	---	0.0
12/13/2010	Car parked over well	---	---	---	0.0
12/28/2010	10.02	---	64.34	---	0.0
1/31/2011	10.17	---	64.34	---	0.0
3/2/2011	9.76	---	64.34	---	0.0
4/1/2011	9.83	---	64.34	---	0.0
4/28/2011	Car parked over well	---	---	---	0.0
5/25/2011	9.99	---	64.34	---	0.0
6/28/2012	10.56	---	64.34	---	0.0
12/28/2012	Car/Snow on well	---	---	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	Car parked over well	---	---	---	0.0
6/19/2014	10.39	---	64.32	---	0.0
12/15/2014	8.63	---	64.36	---	0.0
<i>Approximate Volume Removed from MW-16D</i>					0.0

Table 1
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NYSEG - Clark Street Former Manufactured Gas Plant Site - Auburn, New York

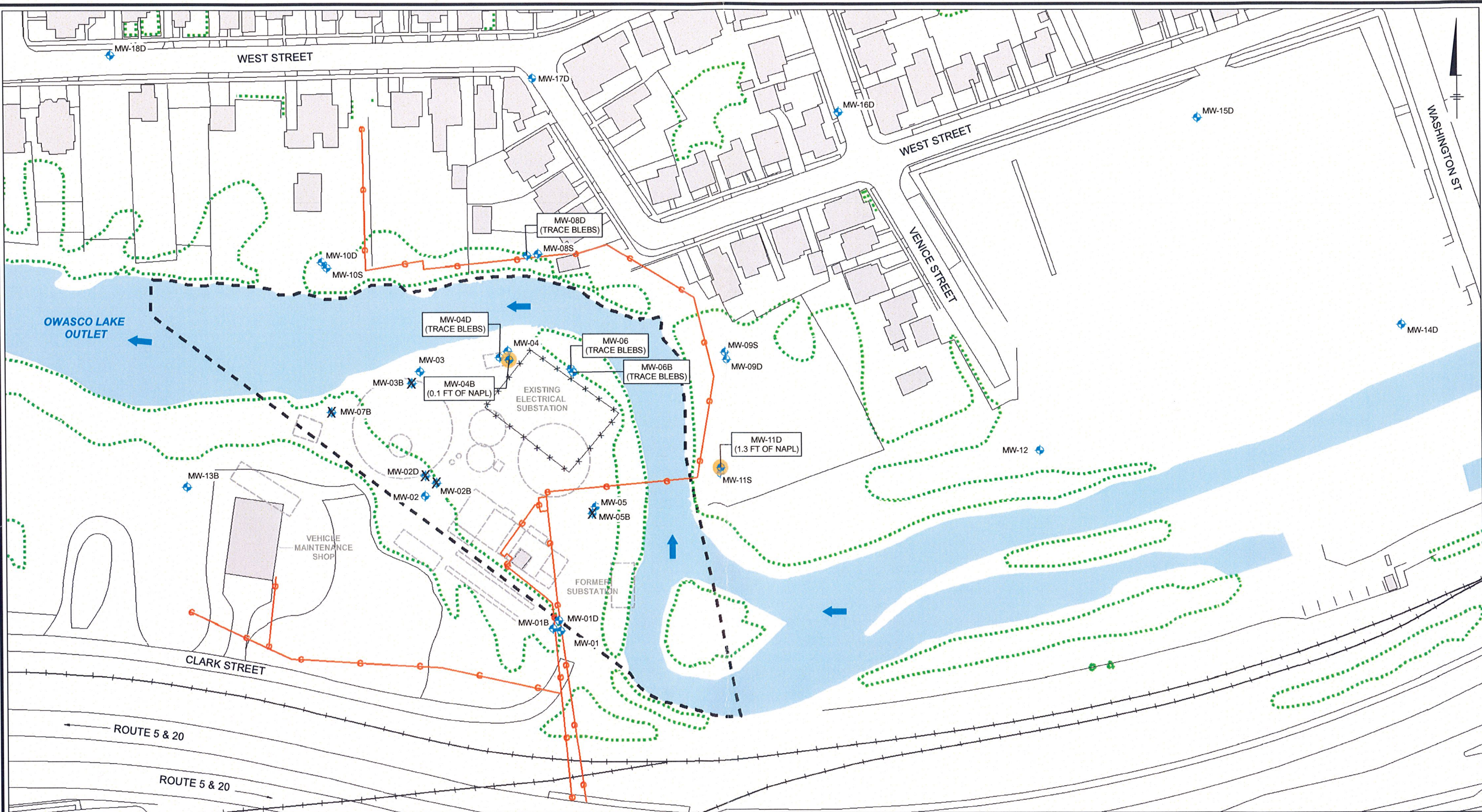
Well ID/Date	Depth to Water	Depth to NAPL	Depth to Bottom	Approximate NAPL Thickness (ft)	Volume Removed (gal)
MW-17D					
6/11/2010	9.31	---	65.40	---	0.0
7/7/2010	9.65	---	65.20	---	0.0
8/3/2010	9.88	---	65.20	---	0.0
9/22/2010	10.05	---	65.22	---	0.0
12/13/2010	8.37	---	65.20	---	0.0
12/28/2010	8.66	---	65.20	---	0.0
1/31/2011	9.11	---	65.20	---	0.0
3/2/2011	8.15	---	65.20	---	0.0
4/1/2011	2.92	---	65.20	---	0.0
4/28/2011	6.34	---	65.22	---	0.0
5/25/2011	9.32	---	65.22	---	0.0
6/28/2012	10.05	---	65.20	---	0.0
12/28/2012	8.86	---	65.20	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	10.97	---	64.27	---	0.0
6/19/2014	11.40	---	63.92	---	0.0
12/15/2014	9.55	---	63.83	---	0.0
Approximate Volume Removed from MW-17D					0.0
MW-18D					
6/11/2010	Obstruction at 13.3	---	---	---	0.0
7/7/2010	Obstruction at 13.3	---	---	---	0.0
8/3/2010	Dry	---	13.30	---	0.0
10/28/2010	Dry - Well caved in	---	13.30	---	0.0
12/13/2010	Dry - Well caved in	---	13.30	---	0.0
12/28/2010	Dry - Well caved in	---	---	---	0.0
1/31/2011	Dry - Well caved in	---	13.30	---	0.0
3/2/2011	Dry	---	13.30	---	0.0
4/1/2011	Dry	---	13.30	---	0.0
4/28/2011	Dry - Well caved in	---	---	---	0.0
5/25/2011	Dry - Well caved in	---	---	---	0.0
6/28/2012	Dry - Well caved in	---	12.50	---	0.0
12/28/2012	Dry	---	13.30	---	0.0
6/27/2013	Not measured	---	---	---	0.0
12/18/2013	Unable to locate	---	---	---	0.0
6/19/2014	9.88	---	12.65	---	0.0
12/15/2014	9.52	---	12.61	---	0.0
Approximate Volume Removed from MW-18D					0.0
Total Recovered NAPL volume to date:					5.28

Notes:

1. Approximate NAPL Volume Removed consists of a NAPL/water mixture.

Figure

City: SYR Div/Group: SWG Created By: J.RAPP Last Saved By: kives
 NYSEG (B0013091,0002,00170)
 C:\NYSEG\FormerClarkSite\AnnualNAPLMonitoring\mxd\NAPL_Gauging_Dec2014.mxd 12/22/2014 8:34:20 AM

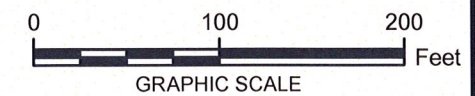


LEGEND:

- | | | | |
|-----|--|-------|---|
| ◆ | EXISTING MONITORING WELL | | TREE LINE |
| ◆ | MONITORING WELL CONTAINING MEASURABLE QUANTITIES OF NAPL | --- | FORMER MGP STRUCTURE/
FORMER ELECTRICAL SUBSTATION |
| ✕ | DECOMMISSIONED MONITORING WELL | ■ | EXISTING BUILDING |
| —○— | NATURAL GAS LINE | - - - | SITE BOUNDARY (SEE NOTE 2) |
| ✕✕ | CHAIN LINK FENCE | | |
| —+— | RAILROAD | | |

NOTES:

- BASEMAP GENERATED FROM SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT FIGURE 1-2 PREPARED BY URS (1117329.00000\DB\GIS\SITEPLAN.MXD) DATED 07/13/2006.
- SITE BOUNDARY AS DEPICTED IN NYSDEC ROD.



NYSEG
 CLARK STREET FORMER MGP SITE
 AUBURN, NEW YORK
SEMI-ANNUAL NAPL MONITORING

DECEMBER 2014 NAPL MONITORING

|
FIGURE
1