



Geotechnical
Environmental and
Water Resources
Engineering

**Quarterly Groundwater Monitoring Report
Third Quarter (Q3) 2010**

**Sag Harbor
Former MGP Site**

Village of Sag Harbor
Suffolk County, Long Island, New York
Site ID No. 1-52-159

Submitted to:

National Grid USA
175 East Old Country Road
Hicksville, NY 11801
11746

Submitted by:

GEI Consultants, Inc.
110 Walt Whitman Road
Huntington Station, NY
631-760-9300

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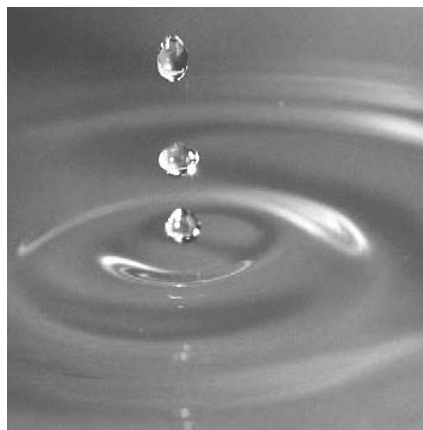


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1. Sag Harbor Site and Adjacent Off-Site Areas

Q3 2010 Groundwater Monitoring Event Summary

Event Date:	September 22, 23 and 24, 2010	
Site Phase:	Quarterly groundwater monitoring	
Location:	The location of the Sag Harbor Former MGP Site is depicted on Figure 1 .	
Monitoring Program:	<i>Number of Wells:</i>	A total of 16 monitoring wells are currently located in the vicinity of the Site (see Figure 2). MW-05 was destroyed sometime between March and June 2007. Monitoring wells MW-01, MW-02, MW-03, MW-04, MW-06, SHMW-01S, SHMW-01I, SHMW-02I, SHMW-02D, SHMW-04S, SHMW-04I, SHMW-05S, SHMW-05I, SHMW-06S, and SHMW-06I were abandoned prior to the Q1 2009 sampling event due to the remediation activities being conducted at the Site.
	<i>Hydrological Data:</i>	Groundwater levels were measured at 14 of the 16 monitoring wells, during low and high tide. Access to monitoring wells SHMW-09S and SHMW-09I could not be obtained. Monitoring well SHMW-07S could not be accessed during low tide. Depth to groundwater and calculated groundwater elevations are provided in Table 1 . Shallow and intermediate groundwater contours for high and low tidal conditions are depicted in Figures 3 through 6 . The groundwater flow direction was generally to the west towards Sag Harbor Cove. The ranges in depth to water and water table elevation data, as well as calculated hydraulic gradients for the shallow and intermediate portions of the aquifer in Q3 2010 were as follows: ▪ Depth to the water table in shallow wells at high tide ranged from 0.20 (SHMW-12S) to 4.32 (SHMW-11S) feet below the well measuring point. ▪ Water table elevations in shallow wells at high

tide ranged from **1.42** (SHMW-11S) to **4.27** (SHMW-08S) feet above mean sea level (MSL).

- Depth to the water table in shallow wells at low tide ranged from **0.20** (SHMW-12S) to **5.35** (SHMW-11S) feet below the well measuring point.
- Water table elevations in shallow wells at low tide ranged from **0.39** (SHMW-11S) to **4.85** (SHMW-08S) feet above MSL.
- The calculated shallow hydraulic gradient for high tide was **0.004** feet/foot. The calculated shallow hydraulic gradient for low tide was **0.0059** feet/foot.
- Depth to groundwater in intermediate wells at high tide ranged from **+0.11** (SHMW-12I) to **4.12** (SHMW-11I) feet below the well measuring point.
- Groundwater elevations in intermediate wells at high tide ranged from **1.67** (SHMW-11I) to **3.68** (SHMW-08I) feet above MSL.
- Depth to groundwater in intermediate wells at low tide ranged from **0.11** (SHMW-12I) to **5.42** (SHMW-11I) feet below the well measuring point.
- Groundwater elevations in intermediate wells at low tide ranged from **0.37** (SHMW-11I) to **3.18** (SHMW-12I) feet above MSL.
- The calculated intermediate hydraulic gradient for high tide was **0.002** feet/foot. The calculated intermediate hydraulic gradient for low tide was **0.003** feet/foot.

*NAPL
Thickness
Data:*

Table 2 provides a summary of historical non-aqueous phase liquid (NAPL) data. In Q3 2010, 14 of 16 monitoring wells were monitored for NAPL as part of the groundwater monitoring program. There was no evidence of light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL) in the monitoring wells during Q3 2010.

*Chemical
Data:*

A total of six monitoring wells were sampled for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260, and for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270. Well sampling was performed on September 22 and 23, 2010 and included all accessible shallow wells on the quarterly sampling list.

Chemical data for Q3 2010 (**Table 3**) indicate:

- Total BTEX concentrations ranged from below method detection limits (ND) in four of the six wells sampled to **8** micrograms per liter ($\mu\text{g/L}$) in SHMW-12S.
- Total PAH concentrations ranged from below ND in four of the six wells sampled to **34** $\mu\text{g/L}$ in SHMW-08S.
- MTBE concentrations were ND in all of the six wells sampled.

**Data Trend
Analysis:**

In general, fairly consistent BTEX and PAH concentrations (see historical data in **Tables 4** and **5**) have been detected in shallow groundwater on and adjacent to the Site. In the two shallow wells that had detectable BTEX concentrations (SHMW-08S and SHMW-12S), the BTEX concentrations detected were lower than the respective historical mean concentrations. The concentration in well SHMW-08S was relatively low (4 $\mu\text{g/L}$) and near historical concentrations. The concentration in SHMW-12S (8 $\mu\text{g/L}$) was well below the historical mean concentration of 240 $\mu\text{g/L}$, and was the lowest concentration detected in this well in almost three years.

In the two shallow wells that had detectable total PAH concentrations, SHMW-08S (34 $\mu\text{g/L}$) and SHMW-12S (3 $\mu\text{g/L}$), the Q3 2008 concentrations were near historical low levels.

Variable dissolved constituent concentrations detected in shallow groundwater over the past sampling events are likely due, in part, to the rise and fall of the water table resulting in periods of both decreased and increased dissolution of adsorbed BTEX and PAH trapped beneath the groundwater/air interface.

The historical NAPL data (see **Table 2**) indicates that measurable quantities of NAPL have primarily been found in two onsite shallow monitoring wells (MW-02 and MW-05), one onsite intermediate well (SHMW-02I), and one offsite shallow well (SHMW-04S).

Historically, trace amounts of NAPL have been found in two onsite shallow wells (MW-03 and MW-04), and one offsite shallow well (SHMW-06S). All of the wells identified above, in which NAPL has been historically detected, were either destroyed or abandoned between September and December 2008 with the exception of MW-05, which was destroyed between March and June 2007. As indicated previously, in Q3 2010, NAPL was not observed in the 14 wells that were monitored for NAPL as part of the groundwater monitoring program.

Current Plans: Continue quarterly groundwater and NAPL monitoring at Site monitoring wells. Consistent with the replacement and additional monitoring well installation work plan approved by the New York State Department of Environmental Conservation, 11 monitoring wells were installed at the site during November 2010 and will be surveyed, gauged and sampled during Q4 2010.

Tables

Table 1
Water Level Measurements and Calculated Water Elevations - Q3 2010
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Top of Casing Elevation (ft)	Tide	Time	9/24/2010		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
MW-01	5.09	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-02	4.48	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-03	4.59	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-04	4.13	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-05	5.07	High	--	--	--	Well destroyed
		Low	--	--	--	
MW-06	5.38	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-01S	4.52	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-01I	4.47	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-02I	5.22	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-02D	5.19	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-03S	5.43	High	1503	2.63	2.80	
		Low	843	2.83	2.60	
SHMW-03I	5.43	High	1504	1.78	3.65	
		Low	844	2.67	2.76	
SHMW-04S	5.71	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-04I	5.71	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-05S	6.23	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-05I	6.14	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-06S	4.44	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-06I	4.43	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-07S	5.05	High	1451	1.23	3.82	Vehicle parked over well during low tide
		Low	NM	NM	NM	
SHMW-07I	5.00	High	1453	1.43	3.57	
		Low	836	1.97	3.03	
SHMW-08S	5.26	High	1454	0.49	4.77	
		Low	840	0.41	4.85	
SHMW-08I	5.08	High	1540	1.40	3.68	
		Low	841	2.10	2.98	
SHMW-09S	4.36	High	--	NM	--	Access not provided
		Low	--	NM	--	
SHMW-09I	4.41	High	--	NM	--	Access not provided
		Low	--	NM	--	
SHMW-10S	5.91	High	1507	3.49	2.42	
		Low	846	4.15	1.76	
SHMW-10I	5.89	High	1509	2.88	3.01	
		Low	847	4.33	1.56	
SHMW-11S	5.74	High	1512	4.32	1.42	
		Low	849	5.35	0.39	
SHMW-11I	5.79	High	1489	4.12	1.67	
		Low	850	5.42	0.37	
SHMW-12S	3.42	High	1446	0.22	3.20	
		Low	833	0.20	3.22	
SHMW-12I	3.29	High	1446	+0.11	3.40	Artesian conditions at high tide
		Low	840	0.11	3.18	
SHMW-13S	4.68	High	1455	0.91	3.77	
		Low	838	0.97	3.71	
SHMW-13I	4.70	High	1456	1.04	3.66	
		Low	838	1.61	3.09	

-- Not Available
NM: Not Measured

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	May 2002 Observations	May 2004 Observations	Aug 2004 Observations	Oct 2004 Observations	Nov 2004 Observations	Dec 2004 Observations	Jan 2005 Observations	Feb 2005 Observations	Mar 2005 Observations
MW-01	None Observed	Odor	None Observed	Not Checked	NR	NR	NR	NR	NR
MW-02	Approx. 0.16' of DNAPL, sheen on surface	Approx. 0.15' of DNAPL, sheen on surface	Approx. 0.29' of DNAPL	Approx. 0.2' of DNAPL	Approx. 0.01' of DNAPL, 1.0' intermittent DNAPL	Approx. 0.1' of DNAPL	Approx. 0.11' of DNAPL	Approx. 0.16' of DNAPL	Approx. 0.15' of DNAPL
MW-03	Intermittent DNAPL for 1.5'	Approx. 0.03' of DNAPL, naphthalene- like odor	NR	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape
MW-04	None Observed	Approx. 0.02' of DNAPL, naphthalene- like odor	NR	Trace DNAPL at bottom of tape	None Observed	None Observed	Trace DNAPL at bottom of tape	Not Checked (under snow pile)	None Observed
MW-05	Blebs of LNAPL	Approx. 1.0' of DNAPL, naphthalene- like odor	Approx. 0.75' of DNAPL	Approx. 4.5' of LNAPL/NAPL	Approx. 0.35' of DNAPL, 3.6' intermittent DNAPL	Trace DNAPL at bottom of tape, bubbles in WC	Trace DNAPL at bottom of tape	Approx. 0.6' of DNAPL, approx. 0.02' of LNAPL	Sporadic DNAPL, approx. 0.1' of LNAPL.
MW-06	None Observed	Slight naphthalene- like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-01S	None Observed	Slight naphthalene- like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-01I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-02I	None Observed	Approx. 4.9' of DNAPL, sheen	Approx. 4.7' of DNAPL	Approx. 4.9' of DNAPL	Approx. 1.0' of DNAPL, 3.0' intermittent DNAPL	Approx. 0.6' of DNAPL	Approx. 0.65' of DNAPL	Approx. 0.5' of DNAPL	Approx. 0.45' of DNAPL
SHMW-02D	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-03S	None Observed	Odor	NR	NR	NR	NR	NR	NR	NR
SHMW-03I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-04S	None Observed	Approx. 0.6' of DNAPL, naphthalene- like odor	NR	Approx. 0.7' of DNAPL, 2.3' intermittent DNAPL	Approx. 0.55' of DNAPL	Approx. 0.29' of DNAPL	Approx. 0.35' of DNAPL	Approx. 0.22' of DNAPL	Approx. 0.25' of DNAPL
SHMW-04I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-05S	None Observed	Blebs of DNAPL in purge water, odor	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	May 2002 Observations	May 2004 Observations	Aug 2004 Observations	Oct 2004 Observations	Nov 2004 Observations	Dec 2004 Observations	Jan 2005 Observations	Feb 2005 Observations	Mar 2005 Observations
SHMW-06S	Slight sheen and naphthalene-like odor	Naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-06I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-07S	Sheen and naphthalene-like odor	Slight odor	NR	NR	NR	NR	NR	NR	NR
SHMW-07I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-08S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-08I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-09S	None Observed	Slight naphthalene- like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-09I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-10S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-10I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-11S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-11I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-12S	None Observed	Sheen, strong sulfur- like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-12I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-13S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-13I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Apr/Q1 2005 Observations	Jun/Q2 2005 Observations	Sep/Q3 2005 Observations	Dec/Q4 2005 Observations	Mar/Q1 2006 Observations	Jun/Q2 2006 Observations	Sep/Q3 2006 Observations	Dec/Q4 2006 Observations	Mar/Q1 2007 Observations
MW-01	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-02	Approx. 0.15' of DNAPL	Trace DNAPL at bottom of tape	Approx. 0.13' of DNAPL	Approx. 0.09' DNAPL, naphthalene-like odor	Approx. 0.01' DNAPL	Approx. 0.12' of DNAPL	Approx. 0.15' DNAPL	Approx. 0.10' DNAPL	Approx. 0.20' DNAPL
MW-03	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	None, naphthalene- like odor	No DNAPL observed	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	No DNAPL observed	Trace DNAPL (coating on tubes)
MW-04	None Observed	None Observed	Trace DNAPL at bottom of tape	Trace DNAPL at bottom of tape	Trace DNAPL	Trace DNAPL	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)
MW-05	Sporadic DNAPL, approx. 0.1' of LNAPL	Approx. 3.0' of DNAPL	Approx. 0.75' of DNAPL, approx. 0.12' of LNAPL	DNAPL blebs in purge H2O, 0.5' DNAPL coating on tubes	Approx. 0.15' of DNAPL, approx. 0.1' of LNAPL	Approx. 0.22' DNAPL; 0.05' of LNAPL	Approx. 0.55' DNAPL; 0.06' of LNAPL	Trace LNAPL; DNAPL in purge water (not measurable)	Trace LNAPL; DNAPL in purge water (not measurable)
MW-06	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-02I	Approx. 1.1' of DNAPL	Approx. 0.75' of DNAPL	Approx. 0.4' of DNAPL	Approx. 1.3' of DNAPL, naphthalene- like odor	Approx. 0.35' of DNAPL	Approx. 0.43' of DNAPL	Approx. 0.5' of DNAPL	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)
SHMW-02D	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-03S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-03I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-04S	Approx. 0.25' of DNAPL	Approx. 0.90' of DNAPL	Approx. 0.26' of DNAPL	Approx. 0.5' DNAPL, naphthalene-like odor	Approx. 0.25' of DNAPL	Approx. 0.5' of DNAPL	Approx. 0.25' of DNAPL	Approx. 0.30' of DNAPL	Approx. 0.40' DNAPL
SHMW-04I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-05S	None Observed	None Observed	None Observed	None Observed	No DNAPL observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Apr/Q1 2005 Observations	Jun/Q2 2005 Observations	Sep/Q3 2005 Observations	Dec/Q4 2005 Observations	Mar/Q1 2006 Observations	Jun/Q2 2006 Observations	Sep/Q3 2006 Observations	Dec/Q4 2006 Observations	Mar/Q1 2007 Observations
SHMW-06S	NR	NR	Trace DNAPL at bottom of tape	Approx. 0.10' DNAPL, naphthalene-like odor	Trace DNAPL	Approx. 0.2' of DNAPL	Approx. 0.2' of DNAPL	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)
SHMW-06I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-07S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-07I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-08S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-08I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-09S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-09I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-10S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-10I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-11S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-11I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-12S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-12I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-13S	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-13I	NR	NR	NR	NR	NR	NR	NR	NR	None Observed

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Observations	Dec/Q4 2008 Observations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations
MW-01	NR	NR	None Observed	None Observed	Trace DNAPL	Trace DNAPL (at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
MW-02	Approx.0.07' DNAPL	Approx. 0.11' DNAPL	Approx. ~0.08'	Trace DNAPL	Moderate DNAPL; not measureable	Trace DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
MW-03	None Observed	Trace DNAPL (coating on tubes)	Trace	Trace DNAPL (On bottom 1.5' of tubes)	Trace DNAPL	Trace DNAPL (0.05' at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
MW-04	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Approx. ~0.02'	NR	Trace DNAPL	Trace DNAPL (at bottom of tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	NR	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01S	NR	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-02I	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Approx. ~0.60'	Approx. 3' DNAPL	Approx. 1.5' DNAPL	Approx. 4' DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-02D	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-03S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	NR	NR	None Observed	NR	NR	NR	None Observed	NR	None Observed
SHMW-04S	Approx.0.50' DNAPL	Approx. 0.5' DNAPL	Approx. ~0.61'	Approx. 1.05' DNAPL	Approx.0.6' DNAPL	Approx.0.75' DNAPL	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-04I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-05S	None Observed	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-05I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Observations	Dec/Q4 2008 Observations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations
SHMW-06S	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace	Trace DNAPL (on tubing)	Trace DNAPL	Trace DNAPL (on tubing)	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-07S	NR	NR	Trace	NR	NR	Trace DNAPL (on side of tubing approx 1' off bottom)	Well Inaccessible or Abandoned	Well Inaccessible	None Observed
SHMW-07I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Inaccessible	None Observed
SHMW-08S	NR	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Inaccessible	None Observed
SHMW-08I	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Inaccessible	None Observed
SHMW-09S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	Well Inaccessible	None Observed
SHMW-09I	NR	NR	None Observed	NR	NR	NR	NR	NR	NR
SHMW-10S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	NR	NR	None Observed	NR	NR	NR	NR	NR	NR
SHMW-11S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11I	NR	NR	None Observed	NR	NR	NR	NR	NR	NR
SHMW-12S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12I	NR	NR	None Observed	NR	NR	NR	NR	NR	NR
SHMW-13S	NR	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13I	NR	NR	None Observed	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations
MW-01	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-02I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-02D	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-03S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	NR	None Observed	None Observed	None Observed	None Observed
SHMW-04S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well ID	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations
SHMW-06S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S	Trace DNAPL (on side of tubing)	None Observed	None Observed	Well Inaccessible	Well Inaccessible
SHMW-07I	NR	None Observed (approximately 10 feet of sand present in well)	None Observed (approximately 10 feet of sand present in well)	Well Inaccessible	Well Inaccessible
SHMW-08S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08I	NR	None Observed	None Observed	None Observed	None Observed
SHMW-09S	None Observed	None Observed	Well Inaccessible	None Observed	None Observed
SHMW-09I	NR	None Observed	None Observed	None Observed	None Observed
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	NR	None Observed	None Observed	None Observed	None Observed
SHMW-11S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11I	NR	None Observed	None Observed	None Observed	None Observed
SHMW-12S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12I	NR	None Observed	None Observed	None Observed	None Observed
SHMW-13S	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13I	NR	None Observed	None Observed	None Observed	None Observed

Notes:

DNAPL - Dense Non-aqueous Phase Liquid
LNAPL - Light Non-aqueous Phase Liquid
WC - Water Column
NR - Gauging Not Required

Table 3
Summary of BTEX, MTBE and PAH Results - Q3 2010
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Sample Name: Sample Date:	NYS AWQS	SHMW-03S 9/22/2010	SHMW-08S 9/22/2010	Duplicate of: SHMW-08S 9/22/2010	SHMW-10S 9/23/2010	SHMW-11S 9/23/2010	SHMW-12S 9/22/2010	SHMW-13S 9/22/2010
BTEX (ug/L)								
Benzene	1	10 U	4 J	4 J	10 U	10 U	2 J	10 UJ
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	1 J	10 U	10 U	10 U	10 U
Xylene, total	5	10 U	10 U	10 U	10 U	10 U	6 J	10 U
Total BTEX	NE	ND	4	5	ND	ND	8	ND
Other VOCs (ug/L)								
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Non-carcinogenic PAHs (ug/L)								
Acenaphthene	20*	10 U	22	12	10 U	10 U	3 J	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	4 J	3 J	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	3 J	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene,2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	5	3 J	10 U	10 U	10 U	10 U
Carcinogenic PAHs (ug/L)								
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAHs (ug/L)								
Total PAHs	NE	ND	34	18	ND	ND	3	ND

Table 3
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of BTEX, MTBE and PAH Results - Q3 2010

Notes:

ug/L - micrograms per liter or parts per billion (ppb)
BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds

Total BTEX and Total PAHs are calculated using detects only.

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

* indicates the value is a guidance value and not a standard

NE - not established

Bolding indicates a detected concentration

Shading and bolding indicates that the detected concentration is above the NYS AWQS objective it was compared to

Validation Qualifiers:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected above the reported sample quantitation limit and the reported quantitation limit is an approximate concentration

Table 4
Summary of Historical Total BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well No.	Screen Interval (feet)	Total BTEX Concentrations (µg/L)																	
		Sampling Date																	
		1995	2000		2002	2004		2005				2006				2007			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	2,720	10	68	9	4	0	0	12	67	0	21	47	310	190	160	240	150	270
MW-02	0.50 - 7.25	5,429	8,840	7,940	5,840	13,287	8,740	7,333	13,010	--	13,720	7,591	--	14,174	12,267	8,678	12,810	15,181	98
MW-03	2.17 - 10.17	1,222	668	1,553	1,363	2,573	--	2,050	2,867	560	2,622	4,880	1,971	4,965	2,398	1,680	2,930	3,225	2,831
MW-04	1.25 - 6.81	864	35	--	10	208	--	0	0	225	299	268	193	181	101	0	51	89	66
MW-05	2.46 - 7.46	9,100	170	5	102	11,600	2,938	2,697	18,900	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	334	47	30	91	49	--	33	55	39	36	74	37	11	54	0	37	31	0
SHMW-01S	1.0 - 6.0	--	--	1,413	874	2,102	--	1,367	1,810	406	1,313	2,562	2,085	5,183	2,915	691	2,460	2,600	1,684
SHMW-01I	35.0 - 45.0	--	--	5	0	0	--	--	--	--	0	--	--	--	0	0	--	--	--
SHMW-02I	35.0 - 45.0	--	--	26	0	1,179	16	20	20	19	25	0	0	0	0	--	11	12	15
SHMW-02D	65.0 - 75.0	--	--	5	4	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-03S	2.0 - 12.0	--	--	63	0	110	--	48	53	46	75	131	67	97	13	122	80	12	50
SHMW-03I	35.0 - 45.0	--	--	0	52	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-04S	2.0 - 12.0	--	--	7,940	3,154	12,180	--	9,369	17,730	8,960	21,920	25,860	9,361	18,398	10,489	6,883	20,488	16,120	10,378
SHMW-04I	35.0 - 45.0	--	--	5	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-05S	2.0 - 12.0	--	--	37	69	83	--	107	282	2,960	115	202	45	43	26	35	458	676	98
SHMW-05I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-06S	2.0 - 6.0	--	--	2,392	2,463	3,057	--	2,630	1,950	--	2,910	2,622	1,702	4,289	2,196	1,475	2,285	2,162	1,565
SHMW-06I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-07S	1.0 - 11.0	--	--	2,011	1,562	414	--	1,482	3,340	2,458	1,722	1,400	1,060	--	1,137	185	--	2,139	726
SHMW-07I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-08S	1.0 - 7.0	--	--	5	2	9	--	0	14	0	15	11	0	19	0	0	0	0	12
SHMW-08I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-09S	2.0 - 12.0	--	--	1,024	506	1,100	--	500	1,000	--	920	1,130	770	768	500	418	1,240	178	600
SHMW-09I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-10S	5.0 - 15.0	--	--	--	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-10I	35.5 - 45.5	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-11S	3.5 - 13.5	--	--	--	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-12S	1.5 - 6.5	--	--	--	0	344	--	142	930	69	290	140	463	581	182	85	623	81	0
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	23
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0

Table 4
Summary of Historical Total BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well No.	Screen Interval (feet)	Total BTEX Concentrations (µg/L)												Min	Max	Mean
		Sampling Date														
		2008				2009				2010						
		March	June	Sep	Dec	March	June	Sept	Dec	March	June	Sept				
MW-01	1.50 - 7.32	337	141	208	--	--	--	--	--	--	--	--	0	2,720	236	
MW-02	0.50 - 7.25	8,865	7,415	2,240	--	--	--	--	--	--	--	--	98	15,181	9,129	
MW-03	2.17 - 10.17	2,842	2,241	2,875	--	--	--	--	--	--	--	--	560	4,965	2,416	
MW-04	1.25 - 6.81	--	15	79	--	--	--	--	--	--	--	--	0	864	149	
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	5	18,900	5,689	
MW-06	2.47 - 7.47	1	33	7	--	--	--	--	--	--	--	--	0	334	50	
SHMW-01S	1.0 - 6.0	1,595	306	243	--	--	--	--	--	--	--	--	243	5,183	1,756	
SHMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	5	1	
SHMW-02I	35.0 - 45.0	18	41	29	--	--	--	--	--	--	--	--	0	1,179	80	
SHMW-02D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	5	2	
SHMW-03S	2.0 - 12.0	3	0	5	13	111	24	4	9	40	5	0	0	131	44	
SHMW-03I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	52	6	
SHMW-04S	2.0 - 12.0	7,567	8,059	7,561	--	--	--	--	--	--	--	--	3,154	25,860	12,357	
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	5	1	
SHMW-05S	2.0 - 12.0	77	83	64	--	--	--	--	--	--	--	--	26	2,960	303	
SHMW-05I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	
SHMW-06S	2.0 - 6.0	1,296	1,343	1,298	--	--	--	--	--	--	--	--	1,296	4,289	2,214	
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	
SHMW-07S	1.0 - 11.0	--	1,075	1,374	--	--	1,500	3,472	2,183	1,825	3,946	--	185	3,946	1,751	
SHMW-07I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	
SHMW-08S	1.0 - 7.0	8	9	10	--	--	5	5	4	6	13	4	0	19	6	
SHMW-08I	35.0 - 45.0	--	--	--	--	--	0	--	0	--	--	--	0	0	0	
SHMW-09S	2.0 - 12.0	1,039	1,298	671	483	--	584	455	224	--	--	--	178	1,298	741	
SHMW-09I	35.0 -45.0	--	--	--	0	--	0	--	0	--	--	--	0	0	0	
SHMW-10S	5.0 -15.0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	
SHMW-10I	35.5 - 45.5	--	--	--	0	--	0	--	0	--	--	--	0	0	0	
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SHMW-11I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	0	0	
SHMW-12S	1.5 - 6.5	166	482	111	279	28	315	45	58	222	217	8	0	930	240	
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	2	--	--	--	0	23	4	
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SHMW-13I	35.0- 45.0	--	--	--	0	--	0	--	0	--	--	--	0	0	0	

NOTES:

-- not analyzed or not applicable

µg/L - micrograms per liter

BTEX - benzene, toluene, ethylbenzene, and xylene

Table 5
Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)																	
		Sampling Date																	
		1995	2000		2002	2004		2005				2006				2007			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	4,906	1,548	257	402	30	24	0	61	200	0	0	0	97	95	0	54	87	39
MW-02	0.50 - 7.25	6,991	5,511	5,114	10,729	25,167	4,414	5,809	10,504	--	6,919	5,209	--	0	8,617	3,150	7,421	5,398	165
MW-03	2.17 - 10.17	7,034	3,065	3,433	3,774	3,522	--	2,272	4,557	516	92	1,256	565	4,831	6,212	349	489	463	2,904
MW-04	1.25 - 6.81	3,612	75	--	0	90	--	0	22	1,098	103	11	37	66	31	0	66	238	6
MW-05	2.46 - 7.46	16,386	779	101	1,160	431,600	2,049	918	188,200	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	5,416	894	653	258	33	--	90	79	204	0	22	0	0	645	35	46	17	0
SHMW-01S	1.0 - 6.0	--	--	4,147	2,663	2,424	--	1,989	2,185	840	0	42	115	3,989	3,874	0	1,058	1,691	42
SHMW-01I	35.0 - 45.0	--	--	32	0	0	--	--	--	--	0	--	--	--	0	--	--	--	--
SHMW-02I	35.0 - 45.0	--	--	266	0	580,200	41	185	124	271	30	74	32	91	89	0	10	175	32
SHMW-02D	65.0 - 75.0	--	--	308	76	89	--	--	--	--	0	--	--	--	0	--	--	--	15
SHMW-03S	2.0 - 12.0	--	--	422	0	295	--	79	130	117	339	0	0	147	118	430	191	12	154
SHMW-03I	35.0 - 45.0	--	--	2	320	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-04S	2.0 - 12.0	--	--	4,275	5,107	5,965	--	3,959	6,669	4,684	5,879	2,364	3,572	4,196	6,250	2,632	3,999	4,693	4,305
SHMW-04I	35.0 - 45.0	--	--	18	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-05S	2.0 - 12.0	--	--	13	170	94	--	82	91	26	53	17	11	11	110	0	0	14	8
SHMW-05I	35.0 - 45.0	--	--	0	17	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-06S	2.0 - 6.0	--	--	4,130	4,694	3,024	--	3,162	2,366	--	4,157	120	201	3,900	4,062	1,703	3,574	4,368	380
SHMW-06I	35.0 - 45.0	--	--	2	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-07S	1.0 - 11.0	--	--	7,211	6,585	2,708	--	3,224	4,604	6,187	3,507	2,004	3,119	--	3,721	0	--	3,902	4
SHMW-07I	35.0 - 45.0	--	--	0	0	0	--	--	--	--	0	--	--	--	2,212	--	--	--	0
SHMW-08S	1.0 - 7.0	--	--	110	71	94	--	25	70	33	83	112	57	77	99	13	90	10	13
SHMW-08I	35.0 - 45.0	--	--	13	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-09S	2.0 - 12.0	--	--	1,787	2,472	1,697	--	1,463	1,600	--	2,609	94	1,935	1,138	2,737	48	206	2,246	130
SHMW-09I	35.0 - 45.0	--	--	3	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-10S	5.0 - 15.0	--	--	--	22	6	--	0	0	0	0	0	0	0	0	0	0	0	1
SHMW-10I	35.5 - 45.5	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0
SHMW-11S	3.5 - 13.5	--	--	--	0	3	--	173	0	0	0	0	0	0	0	0	0	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	4
SHMW-12S	1.5 - 6.5	--	--	--	60	218	--	71	600	230	260	110	470	310	280	15	560	0	155
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	20
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0

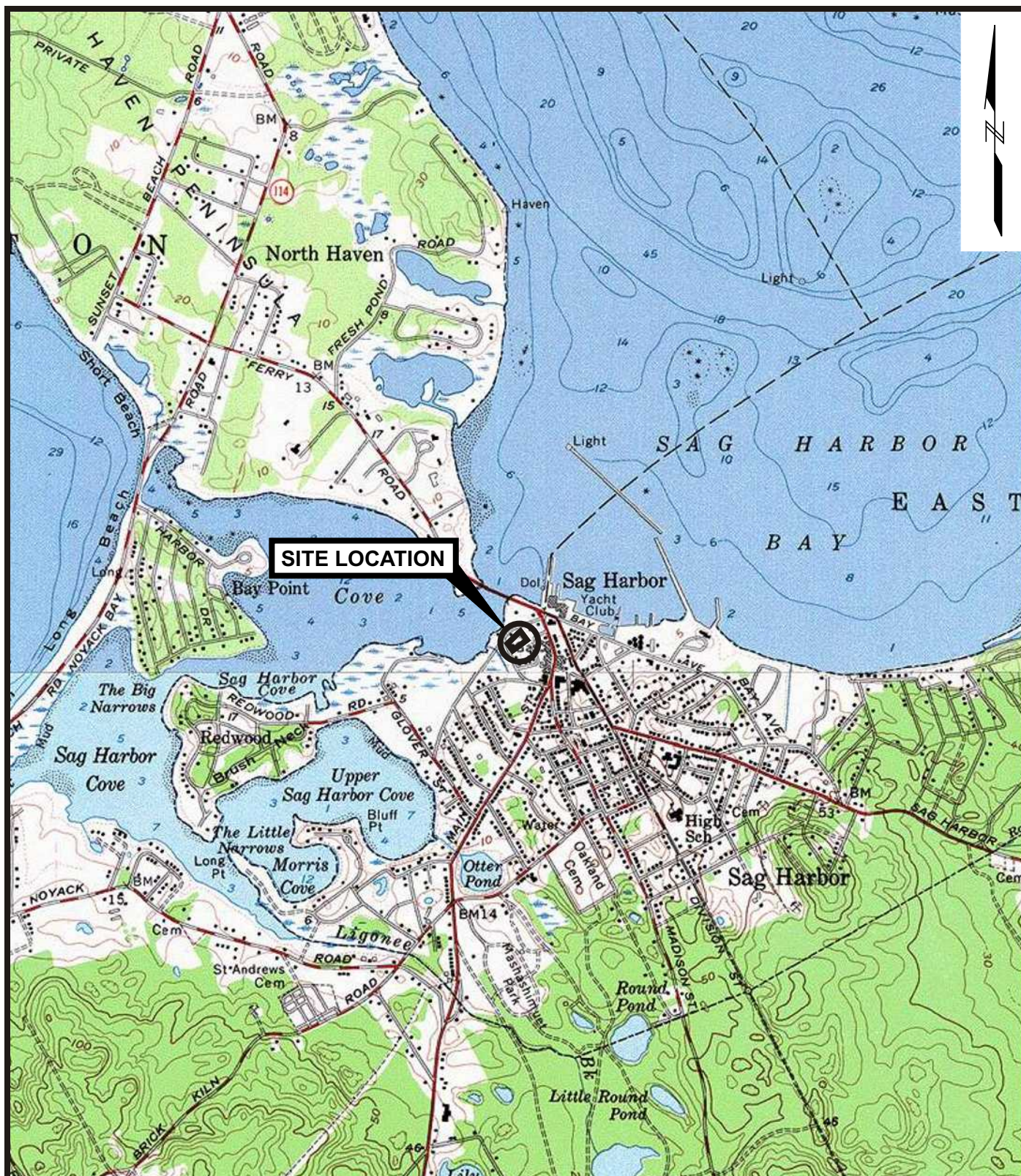
Table 5
Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q3 2010

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)												Min	Max	Mean
		Sampling Date														
		2008				2009				2010						
		March	June	Sep	Dec	March	June	Sept	Dec	March	June	Sept				
MW-01	1.50 - 7.32	145	2	35	--	--	--	--	--	--	--	0	4,906	380		
MW-02	0.50 - 7.25	400	3,455	3,488	--	--	--	--	--	--	--	0	25,167	6,235		
MW-03	2.17 - 10.17	508	96	1,109	--	--	--	--	--	--	--	92	7,034	2,352		
MW-04	1.25 - 6.81	--	0	22	--	--	--	--	--	--	--	0	3,612	304		
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	101	431,600	80,149		
MW-06	2.47 - 7.47	0	0	10	--	--	--	--	--	--	--	0	5,416	420		
SHMW-01S	1.0 - 6.0	0	0	0	--	--	--	--	--	--	--	0	4,147	1,392		
SHMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	32	6		
SHMW-02I	35.0 - 45.0	8	42	209	--	--	--	--	--	--	--	0	580,200	30,625		
SHMW-02D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	0	308	81		
SHMW-03S	2.0 - 12.0	0	0	17	29	0	20	0	0	0	22	0	430	100		
SHMW-03I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	0	320	36		
SHMW-04S	2.0 - 12.0	0	1,328	1,868	--	--	--	--	--	--	--	0	6,669	3,986		
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	18	3		
SHMW-05S	2.0 - 12.0	2	0	31	--	--	--	--	--	--	--	0	170	41		
SHMW-05I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	17	3		
SHMW-06S	2.0 - 6.0	0	44	5,848	--	--	--	--	--	--	--	0	5,848	2,690		
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	2	0		
SHMW-07S	1.0 - 11.0	--	54	3,252	--	--	2,919	4,722	5,286	3,410	4,547	0	7,211	3,548		
SHMW-07I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	2,212	369		
SHMW-08S	1.0 - 7.0	14	21	55	--	--	59	60	112	129	201	34	10	201	69	
SHMW-08I	35.0 - 45.0	--	--	--	--	--	1	--	0	--	--	--	0	13	2	
SHMW-09S	2.0 - 12.0	0	92	485	503	--	68	39	389	--	--	--	0	2,737	1,084	
SHMW-09I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	3	0	
SHMW-10S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	22	1	
SHMW-10I	35.5 - 45.5	--	--	--	0	--	0	--	0	--	--	--	0	0	0	
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	2	0	0	0	0	0	173	7	
SHMW-11I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	4	1	
SHMW-12S	1.5 - 6.5	9	137	259	280	0	332	4	216	177	585	3	0	600	209	
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	20	3	
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SHMW-13I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	0	0	

NOTES:

-- not analyzed or not applicable
µg/L - micrograms per liter
PAH - polycyclic aromatic hydrocarbons

Figures



SOURCE: Map created with TOPO! © ©2001 National Geographic
(www.nationalgeographic.com/topo)"

0 2000 4000
SCALE, FEET

SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

nationalgrid

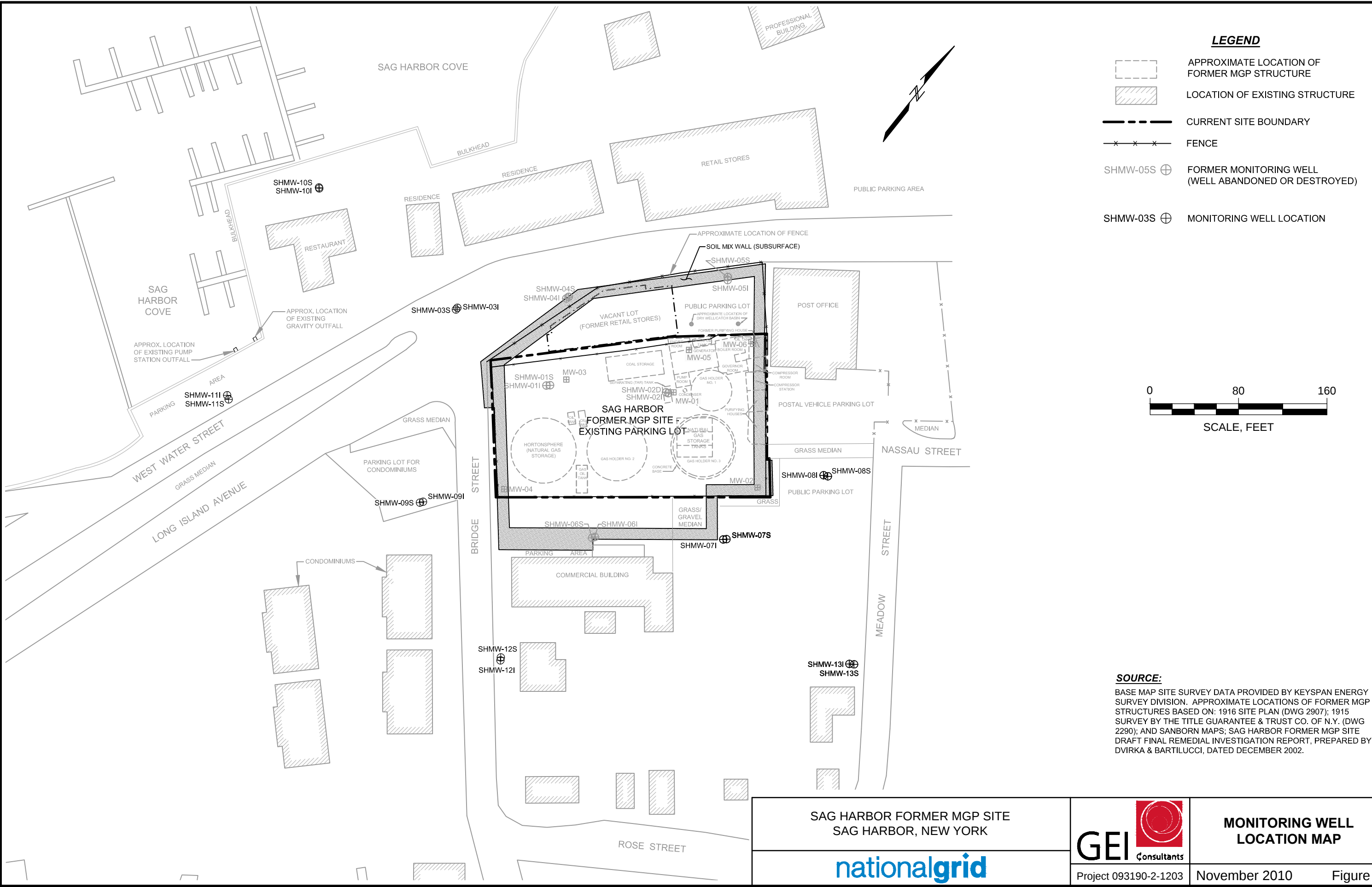
GEI Consultants

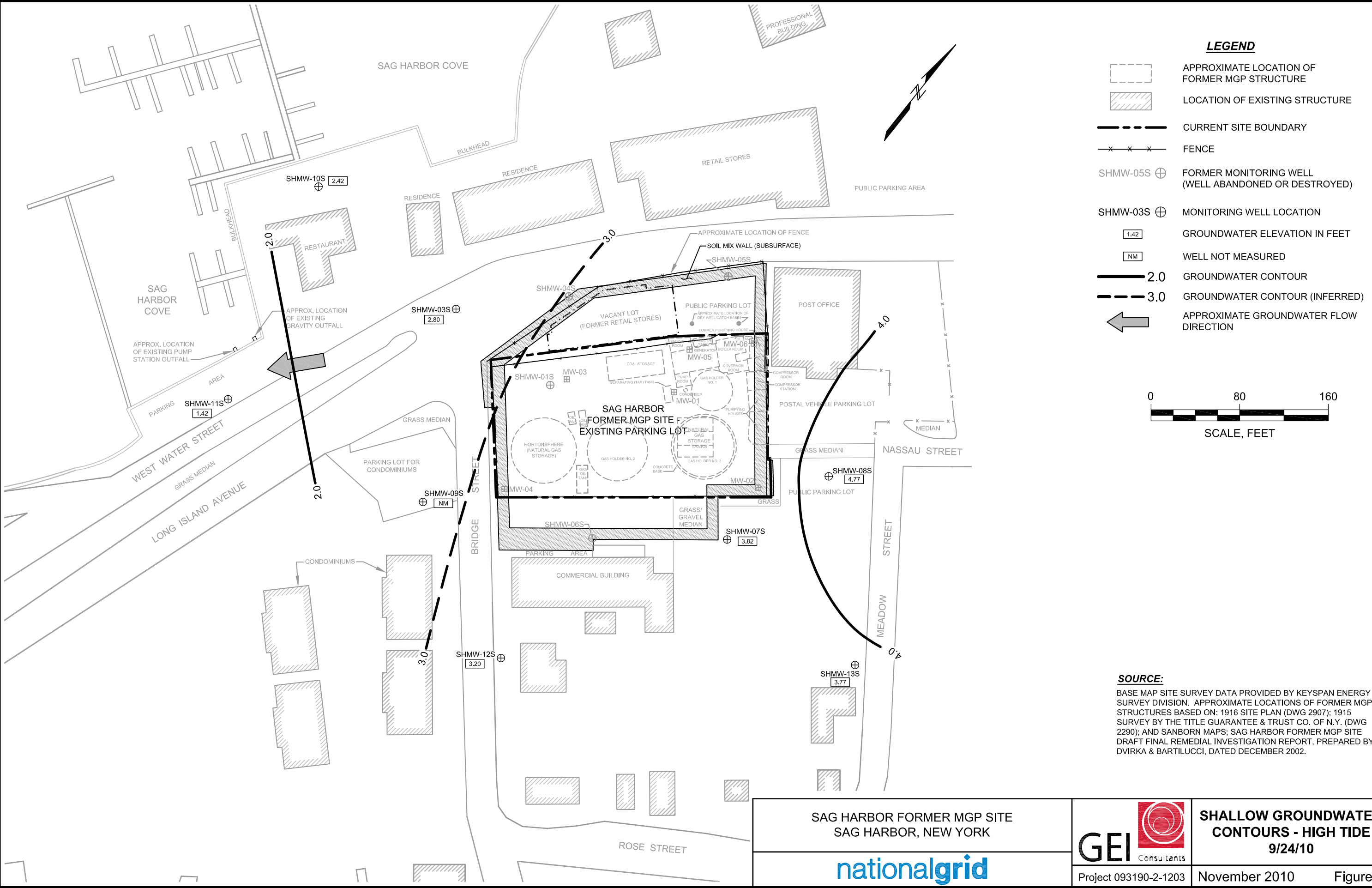
Project 093190-2-1203

SITE LOCATION MAP

November 2010

Figure 1





LEGEND

- APPROXIMATE LOCATION OF FORMER MGP STRUCTURE
- LOCATION OF EXISTING STRUCTURE
- CURRENT SITE BOUNDARY
- FENCE
- FORMER MONITORING WELL (WELL ABANDONED OR DESTROYED)
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION IN FEET
- WELL NOT MEASURED
- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR (INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

0 80 160
SCALE, FEET

SOURCE:
BASE MAP SITE SURVEY DATA PROVIDED BY KEYSpan ENERGY SURVEY DIVISION. APPROXIMATE LOCATIONS OF FORMER MGP STRUCTURES BASED ON: 1916 SITE PLAN (DWG 2907); 1915 SURVEY BY THE TITLE GUARANTEE & TRUST CO. OF N.Y. (DWG 2290); AND SANBORN MAPS; SAG HARBOR FORMER MGP SITE DRAFT FINAL REMEDIAL INVESTIGATION REPORT, PREPARED BY DVIRKA & BARTILUCCI, DATED DECEMBER 2002.

I:\Project\National Grid\Sag Harbor\Groundwater-Quarterly Monitoring\2010\Figures\ SAG HARBOR-GW CONTOURS Q3-2010.dwg

