



Geotechnical  
Environmental  
Water Resources  
Ecological

**Quarterly Groundwater Monitoring Report  
Third Quarter (Q3) 2014**

**Sag Harbor  
Former MGP Site**

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

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# 1. Sag Harbor Site and Adjacent Offsite Areas

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## Third Quarter (Q3) 2014 Groundwater Monitoring Event Summary

Event Date: September 22, 23 and 24, 2014

Site Phase: Quarterly groundwater monitoring

Location: The location of the Sag Harbor Former MGP site is depicted on **Figure 1**.

### Monitoring Program

Criteria to reduce the scope of the groundwater monitoring program based on historical and future analytical results were proposed, and subsequently approved by the New York State Department of Environmental Conservation (NYSDEC) on March 21, 2014. The criteria and the resulting reductions to the program were detailed in a follow-up letter to NYSDEC dated May 13, 2014. NYSDEC has required that several monitoring wells in the intermediate zone be exempt from reduction criteria and be sampled annually. These wells include SHMW-03I, SHMW-05I and SHMW-08I.

Based on the established criteria, eight wells in the intermediate or deep zones were eliminated from the sampling program and five shallow wells were reduced to annual sampling. The reductions in the scope of work are shown in the table below. Going forward, the sampling list will be re-evaluated on a quarterly basis, with changes made, as appropriate.

Monitoring Well	Sampling Frequency		Monitoring Well	Sampling Frequency	
	Former	Current		Former	Current
SHMW-01SR	Quarterly	Annual	SHMW-02DR	Annual	Eliminated
SHMW-02S	Quarterly	Annual	SHMW-07IR	Annual	Eliminated
SHMW-03S	Quarterly	Annual	SHMW-10I	Annual	Eliminated
SHMW-10S	Quarterly	Annual	SHMW-11I	Annual	Eliminated
SHMW-13S	Quarterly	Annual	SHMW-12I	Annual	Eliminated
SHMW-01IR	Annual	Eliminated	SHMW-13I	Annual	Eliminated
SHMW-01D	Annual	Eliminated			

Implementation of the reduced sampling scope began in Q2 2014. Based on a review of seasonal data trends, the annual sampling rounds are to be conducted during the third quarter of each year. Seventeen wells were included in the Q3 2014 annual sampling list.

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## Monitoring Well Network

A total of 25 monitoring wells are currently located at or in the vicinity of the site (**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 Q4 2008 sampling event due to the remediation activities being conducted at the site. Seven of the monitoring wells, including SHMW-01SR, SHMW-01IR, SHMW-02IR, SHMW-02DR, SHMW-04SR, SHMW-05SR, and SHMW-05IR were replaced as part of the post-remediation monitoring well replacement/installation program in Q4 2010.

Monitoring wells SHMW-02IR and SHMW-04SR were installed as larger diameter wells for potential dense non-aqueous phase liquid (DNAPL) recovery. In addition to the installation of the replacement monitoring wells listed above, new monitoring wells SHMW-01D and SHMW-02S were also installed as part of this program. Monitoring wells SHMW-07S and SHMW-07I, which were damaged presumably during the remedial activities, were abandoned during the replacement well installation program and reinstalled.

## Hydrological Data

Groundwater levels were measured on September 22, 2014 at 24 of the 25 monitoring wells, during low and high tides. Monitoring well SHMW-02IR was repaired during Q3 2011, altering the survey point. As a result, a groundwater level measurement was not taken. 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 on **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 2014, are provided in the following table:

Depth Zone	High Tide		Gradient <sup>3</sup>	Low Tide		Gradient <sup>3</sup>		
	Range			Range	Range			
	DTW <sup>1</sup>	WLE <sup>2</sup>						
Shallow	0.12 – 4.56	0.21 – 2.78	0.0003	0.10 – 5.60	-0.28 – 2.18	0.0012		
Intermediate	0.04 – 4.70	0.88 – 2.14	0.0008	0.01 – 6.11	-0.48 – 2.24	0.0026		

Notes:

<sup>1</sup>: Depth to water - Measured as feet below top of casing

<sup>2</sup>: Water level elevation - Calculated as feet above mean sea level

<sup>3</sup>: Feet/Feet

## NAPL Thickness Data

**Table 2** provides a summary of historical non-aqueous phase liquid (NAPL) data. In Q3 2014, all of the 25 monitoring wells were monitored for NAPL as part of the groundwater monitoring program. Evidence of light non-aqueous phase liquid (LNAPL) or DNAPL in any

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of the monitoring wells during Q3 2014 was limited to blebs of DNAPL observed on the sample tubing at monitoring well SHMW-07SR.

## Chemical Data

In Q3 2014, a total of 17 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 23 and 24, 2014 and included all wells on the reduced annual sampling list.

Chemical data for Q2 2014 (**Table 3**) indicate:

- BTEX concentrations ranged from below method detection limits (ND) in nine of the 17 wells sampled to 3,508 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in SHMW-07SR.
- Total PAH concentrations ranged from ND in six of the 17 wells sampled to 12,876  $\mu\text{g}/\text{L}$  in SHMW-07SR.
- MTBE concentrations were ND in each of the wells sampled, excluding an estimated detection of 4  $\mu\text{g}/\text{L}$  in SHMW-08S.

## Data Trend Analysis

In general, BTEX concentrations (see historical data in **Tables 4** and **5**) have been generally decreasing in shallow groundwater on and adjacent to the site. Average shallow total PAH concentrations have been increasing in recent sampling events; however, this is primarily due to the concentration in one well (SHMW-07SR). The median total PAH concentration in Q3 2014 was near detection levels (3  $\mu\text{g}/\text{L}$ ) indicating that the majority of the shallow concentrations remain low. An analysis of the current and historical data is presented in the table below.

Shallow Zone	Historical*		Q1 2014		Q2 2014**		Q3 2014	
	Max	Average	Max	Average	Max	Average	Max	Average
BTEX	25,860	878	769	167	1,991	411	3,508	385
Total PAHs	7,211	643	1,733	374	5,945	1,140	12,876	1,412

Notes:

\* Concentrations in  $\mu\text{g}/\text{L}$

\* Includes data from wells on current sampling list only

\*\* Includes data from the reduced quarterly sampling list

Concentrations of BTEX were identified in seven of the 12 shallow monitoring wells sampled during in Q3 2014. The concentrations in monitoring wells SHMW-03S (5  $\mu\text{g}/\text{L}$ ), SHMW-05SR (15  $\mu\text{g}/\text{L}$ ), and SHMW-08S (2  $\mu\text{g}/\text{L}$ ) were near detection levels. The Q3 2014 detections in each of these wells were below its respective historical mean concentration. No detections were identified in monitoring wells SHMW-01SR, SHMW-02S, SHMW-10S, SHMW-11S, and SHMW-13S.

Elevated BTEX concentrations in the remaining shallow wells in Q3 2014 were limited to SHMW-04SR, SHMW-07SR, SHMW-09S, and SHMW-12S. The Q3 2014 concentrations in

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SHMW-04SR and SHMW-07SR increased relative to Q2 2014 levels, while the concentrations in SHMW-09S and SHMW-12 S decreased relative to Q2 2014 levels. The concentrations in SHMW-04SR (900 µg/L), SHMW-09S (136 µg/L), and SHMW-12S (56 µg/L) were below their respective historical mean concentration. The concentration in SHMW-07SR (3,508 µg/L) was above its historical mean concentration, but within the historical concentration range. Excluding SHMW-09S, the BTEX concentrations in each of these wells remain variable.

Detections of total PAHs were identified in nine of the 12 monitoring shallow wells sampled during Q3 2014. The concentrations in monitoring wells SHMW-03S (3 µg/L), SHMW-11S (1 µg/L), and SHMW-13S (1 µg/L) were near detection levels. The Q3 2014 detections in each of these wells were similar to, or below its respective historical mean concentration. No detections were identified in monitoring wells SHMW-01SR, SHMW-02S, and SHMW-10S.

Elevated total PAH concentrations in Q3 2014 were identified in the remaining shallow wells, ranging from 250 µg/L in SHMW-08S to 12,876 µg/L in SHMW-07SR. The concentrations in each of the monitoring wells with elevated detections including SHMW-04SR (1,637 µg/L), SHMW-05SR (367 µg/L), SHMW-07SR, SHMW-08S, SHMW-09S (1,315 µg/L), and SHMW-12S (493 µg/L), all increased relative to Q2 2014 and, excluding SHMW-04SR, were above their respective historical means. All of the Q3 2014 total PAH detections were within their respective historical concentration ranges, excluding SHMW-07SR. The total PAH concentrations in these wells remain generally variable; however, increasing trends particularly in SHMW-07SR and SHMW-09S, have been evident in recent sampling events.

Detection of BTEX or total PAHs in the intermediate zone were limited to SHMW-02IR (total PAHs only) and SHMW-09I and remained near detection levels.

#### *DNAPL Occurrence*

The historical NAPL data (**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). Non-measurable (trace) amounts of NAPL have historically been found in two onsite shallow wells, MW-03 and MW-04, as well as in offsite shallow well SHMW-06S, and was intermittently found in SHMW-07S. All of the wells identified above in which NAPL has been historically detected were either destroyed or abandoned prior to, or during, remedial activities.

No measurable amounts of LNAPL and DNAPL were found in replacement monitoring wells SHMW-04SR and SHMW-07SR during the first three monitoring events following the installation of these wells. To date, no significant evidence of NAPL has been found in these monitoring wells or any of the remaining monitoring wells since Q2 2011, with one exception: approximately six inches of DNAPL were measured in well SHMW-02IR during Q4 2013. As mentioned above, SHMW-02IR was installed to replace SHMW-02I, which

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was abandoned prior to the Q4 2008 sampling event due to the remediation activities being conducted at the site. DNAPL thicknesses in SHMW-02I reached a maximum of approximately 4 feet immediately prior to abandonment during the Q3 2008 monitoring event. SHMW-02IR was installed as a larger diameter well for potential DNAPL recovery. No DNAPL was observed in this well during Q1 or Q2 2014. Thicknesses in this well will continue to be monitored during future sampling events.

### **Future Plans**

- Continue quarterly groundwater and NAPL monitoring at onsite and offsite monitoring wells.

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## Tables

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**Table 1. Water Level Measurements and Calculated Groundwater Elevations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well ID	Top of Casing Elevation (ft)*	Tide	Time	9/22/2014		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
SHMW-01SR	3.71	High	0926	3.15	0.56	Well replaced in Q4 2010
		Low	1540	2.92	0.79	
SHMW-01IR	3.81	High	0927	2.51	1.30	Well replaced in Q4 2010
		Low	1541	3.25	0.56	
SHMW-01D	3.67	High	0928	1.68	1.99	Well installed in Q4 2010
		Low	1541	2.58	1.09	
SHMW-02S	3.95	High	0922	2.85	1.10	Well installed in Q4 2010
		Low	1534	2.85	1.10	
SHMW-02IR	3.92	High	NM	NM	NM	Survey point altered
		Low	NM	NM	NM	
SHMW-02DR	3.66	High	0924	2.05	1.61	Well replaced in Q4 2010
		Low	1534	2.42	1.24	
SHMW-03S	3.83	High	0935	2.97	0.86	
		Low	1547	3.21	0.62	
SHMW-03I	3.85	High	0937	2.09	1.76	
		Low	1548	3.13	0.72	
SHMW-04SR	3.90	High	0931	3.00	0.90	Well replaced in Q4 2010
		Low	1545	3.19	0.71	
SHMW-05SR	5.03	High	1020	3.58	1.45	Well replaced in Q4 2010
		Low	1549	4.10	0.93	
SHMW-05IR	4.96	High	1022	4.08	0.88	Well replaced in Q4 2010
		Low	1550	4.01	0.95	
SHMW-07SR	3.48	High	1004	0.70	2.78	
		Low	1613	1.94	1.54	
SHMW-07IR	3.38	High	1006	1.73	1.65	
		Low	1614	2.28	1.10	
SHMW-08S	3.69	High	1000	2.29	1.40	
		Low	1620	2.28	1.41	
SHMW-08I	3.79	High	1002	1.80	1.99	
		Low	1621	2.66	1.13	
SHMW-09S	3.06	High	0952	2.85	0.21	
		Low	1507	1.80	1.26	
SHMW-09I	2.82	High	0955	1.50	1.32	
		Low	1604	1.95	0.87	
SHMW-10S	4.75	High	0940	3.76	0.99	
		Low	1556	4.31	0.44	
SHMW-10I	4.75	High	0945	3.26	1.49	
		Low	1555	4.98	-0.23	
SHMW-11S	5.32	High	0950	4.56	0.76	
		Low	1559	5.60	-0.28	
SHMW-11I	5.63	High	0951	4.70	0.93	
		Low	1559	6.11	-0.48	
SHMW-12S	1.98	High	0957	0.12	2.10	
		Low	1609	0.10	2.18	
SHMW-12I	1.99	High	0958	0.04	2.14	
		Low	1610	0.01	2.24	
SHMW-13S	3.36	High	1008	2.16	1.20	
		Low	1618	2.18	1.18	
SHMW-13I	3.50	High	1010	1.51	1.99	
		Low	1618	2.07	1.43	

**General Notes:**

\* Elevations were re-surveyed in November 2010.

NM = Not Measured

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

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/01SR	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR
SHMW-01I/01IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	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/02DR	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/04SR	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

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

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-05S/05SR	None Observed	Blebs of DNAPL in purge water, odor	NR	None Observed					
SHMW-05I/05IR	None Observed	None Observed	NR						
SHMW-06S	Slight sheen and naphthalene-like odor	Naphthalene-like odor	NR						
SHMW-06I	None Observed	None Observed	NR						
SHMW-07S/07SR	Sheen and naphthalene-like odor	Slight odor	NR						
SHMW-07I/07IR	None Observed	None Observed	NR						
SHMW-08S	None Observed	None Observed	NR						
SHMW-08I	None Observed	None Observed	NR						
SHMW-09S	None Observed	Slight naphthalene-like odor	NR						
SHMW-09I	None Observed	None Observed	NR						
SHMW-10S	None Observed	None Observed	NR						
SHMW-10I	None Observed	None Observed	NR						
SHMW-11S	None Observed	None Observed	NR						
SHMW-11I	None Observed	None Observed	NR						
SHMW-12S	None Observed	Sheen, strong sulfur-like odor	NR						
SHMW-12I	None Observed	None Observed	NR						
SHMW-13S	None Observed	None Observed	NR						
SHMW-13I	None Observed	None Observed	NR						

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

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 H <sub>2</sub> O, 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/01SR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01I/01IR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	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/02DR	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/04SR	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

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

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-05S/05SR	None Observed	None Observed	None Observed	None Observed	No DNAPL observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
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/07SR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed
SHMW-07I/07IR	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 2014**

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 measurable	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/01SR	NR	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01I/01IR	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	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/02DR	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/04SR	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

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

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-05S/05SR	None Observed	NR	None Observed	None Observed	None Observed	None Observed	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
SHMW-05I/05IR	NR	NR	None Observed	NR	NR	NR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned
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/07SR	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/07IR	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 2014

Well ID	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations	Dec/Q4 2010 Observations	Mar/Q1 2011 Observations	Jun/Q2 2011 Observations	Sep/Q3 2011 Observations
MW-01	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned					
MW-02	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned					
MW-03	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned					
MW-04	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned					
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed					
MW-06	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned					
SHMW-01S/01SR	Well Abandoned	None Observed	None Observed	None Observed	None Observed				
SHMW-01I/01IR	Well Abandoned	None Observed	None Observed	None Observed	None Observed				
SHMW-01D	NI	NI	NI	NI	NI	None Observed	None Observed	None Observed	None Observed
SHMW-02S	NI	NI	NI	NI	NI	None Observed	None Observed	None Observed	None Observed
SHMW-02I/02IR	Well Abandoned	None Observed	Well Damaged	Well Damaged	Well Damaged				
SHMW-02D/02DR	Well Abandoned	None Observed	None Observed	None Observed	None Observed				
SHMW-03S	None Observed	None Observed	None Observed	None Observed					
SHMW-03I	NR	None Observed	None Observed	None Observed	None Observed				
SHMW-04S/04SR	Well Abandoned	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	None Observed				
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned					

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well ID	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations	Dec/Q4 2010 Observations	Mar/Q1 2011 Observations	Jun/Q2 2011 Observations	Sep/Q3 2011 Observations
SHMW-05S/05SR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	None Observed	None Observed	None Observed	None Observed
SHMW-06S	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S/07SR	Trace DNAPL (on side of tubing)	None Observed	None Observed	Well Inaccessible	Well Inaccessible	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	None Observed
SHMW-07I/07IR	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	None Observed	None Observed	None Observed	None Observed
SHMW-08S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08I	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-09S	None Observed	None Observed	Well Inaccessible	None Observed	None Observed	No access	No access	No access	No access
SHMW-09I	NR	None Observed	None Observed	None Observed	None Observed	No access	No access	No access	No access
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-11I	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-12I	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-13I	NR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well ID	Dec/Q4 2011 Observations	Mar/Q1 2012 Observations	Jun/Q2 2012 Observations	Sep/Q3 2012 Observations	Dec/Q4 2012 Observations	Mar/Q1 2013 Observations	Jun/Q2 2013 Observations	Sep/Q3 2013 Observations	Dec/Q4 2013 Observations
MW-01	Well Abandoned								
MW-02	Well Abandoned								
MW-03	Well Abandoned								
MW-04	Well Abandoned								
MW-05	Well Destroyed								
MW-06	Well Abandoned								
SHMW-01S/01SR	None Observed								
SHMW-01I/01IR	None Observed								
SHMW-01D	None Observed								
SHMW-02S	None Observed								
SHMW-02I/02IR	None Observed	Approx. 6" of DNAPL							
SHMW-02D/02DR	None Observed								
SHMW-03S	None Observed								
SHMW-03I	None Observed								
SHMW-04S/04SR	None Observed								
SHMW-04I	Well Abandoned								

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well ID	Dec/Q4 2011 Observations	Mar/Q1 2012 Observations	Jun/Q2 2012 Observations	Sep/Q3 2012 Observations	Dec/Q4 2012 Observations	Mar/Q1 2013 Observations	Jun/Q2 2013 Observations	Sep/Q3 2013 Observations	Dec/Q4 2013 Observations
SHMW-05S/05SR	None Observed								
SHMW-05I/05IR	None Observed								
SHMW-06S	Well Abandoned								
SHMW-06I	Well Abandoned								
SHMW-07S/07SR	None Observed								
SHMW-07I/07IR	None Observed								
SHMW-08S	None Observed								
SHMW-08I	None Observed								
SHMW-09S	No access								
SHMW-09I	No access								
SHMW-10S	None Observed								
SHMW-10I	None Observed								
SHMW-11S	None Observed								
SHMW-11I	None Observed								
SHMW-12S	None Observed								
SHMW-12I	None Observed								
SHMW-13S	None Observed								
SHMW-13I	None Observed								

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well ID	Mar/Q1 2014 Observations	Jun/Q2 2014 Observations	Sep/Q3 2014 Observations
MW-01	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	None Observed	None Observed	None Observed
SHMW-01I/01IR	None Observed	None Observed	None Observed
SHMW-01D	None Observed	None Observed	None Observed
SHMW-02S	None Observed	None Observed	None Observed
SHMW-02I/02IR	None Observed	None Observed	None Observed
SHMW-02D/02DR	None Observed	None Observed	None Observed
SHMW-03S	None Observed	None Observed	None Observed
SHMW-03I	None Observed	None Observed	None Observed
SHMW-04S/04SR	None Observed	None Observed	None Observed
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned

**Table 2. Summary of Historical NAPL Observations**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well ID	Mar/Q1 2014 Observations	Jun/Q2 2014 Observations	Sep/Q3 2014 Observations
SHMW-05S/05SR	None Observed	None Observed	None Observed
SHMW-05I/05IR	None Observed	None Observed	None Observed
SHMW-06S	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S/07SR	None Observed	DNAPL Blebs on tubing	DNAPL Blebs on tubing
SHMW-07I/07IR	None Observed	None Observed	None Observed
SHMW-08S	None Observed	None Observed	None Observed
SHMW-08I	None Observed	None Observed	None Observed
SHMW-09S	None Observed	None Observed	None Observed
SHMW-09I	None Observed	None Observed	None Observed
SHMW-10S	None Observed	None Observed	None Observed
SHMW-10I	None Observed	None Observed	None Observed
SHMW-11S	None Observed	None Observed	None Observed
SHMW-11I	None Observed	None Observed	None Observed
SHMW-12S	None Observed	None Observed	None Observed
SHMW-12I	None Observed	None Observed	None Observed
SHMW-13S	None Observed	None Observed	None Observed
SHMW-13I	None Observed	None Observed	None Observed

**General Notes:**

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

Table 3. Summary of BTEX, MTBE and PAH Results

Sag Harbor Former MGP Site

Groundwater Monitoring Program - Q3 2014

		Location Name	SHMW-01SR	SHMW-02S	SHMW-02IR	SHMW-03S	SHMW-03I	SHMW-04SR	SHMW-05SR	SHMW-05IR	SHMW-05IR	DUP-SH01	SHMW-07SR	SHMW-08S	SHMW-08I
		Sample Name	SHMW-01SR	SHMW-02S	SHMW-02IR	SHMW-03S	SHMW-03I	SHMW-04SR	SHMW-05SR	SHMW-05IR	SHMW-05IR		SHMW-07SR	SHMW-08S	SHMW-08I
		Start Depth	1	1	35	2	35	2	2	35	35		1	1	35
		End Depth	6	6	45	12	45	12	12	45	45		11	7	45
		Depth Unit	ft		ft	ft	ft								
		Sample Date	9/24/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/24/2014	9/23/2014	9/23/2014	9/23/2014		9/24/2014	9/23/2014	9/23/2014
		Parent Sample													
Analyte	Units	CAS No.	NYS AWQS												
BTEX	ug/L														
Benzene		71-43-2	1	1 U	1 U	5	1 U	220	11	1 U	1 U	1500	2	1 U	
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	20	1 U	1 U	1 U	38	1 U	1 U	
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	350	1 U	1 U	1 U	1300	1 U	1 U	
Total Xylene		1330-20-7	5	1 U	1 U	1 U	1 U	310	4	1 U	1 U	670	1 U	1 U	
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	5	ND	900	15	ND	ND	3508	2	ND	
Other VOCs	ug/L														
Methyl tert-butyl ether (MTBE)		1634-04-4	10*	10 U	10 U	4 J	10 U								
NYSDEC PAH17	ug/L														
Acenaphthene		83-32-9	20*	80 UJ	10 U	3 J	10 U	150 J	59 J	10 U	10 U	1000	39	10 U	
Acenaphthylene		208-96-8	NE	80 UJ	10 U	2 J	10 U	4 J	10 U	10 U	10 U	70	1 J	10 U	
Anthracene		120-12-7	50*	80 UJ	10 U	10 U	10 U	8 J	10 U	10 U	10 U	440 J	6 J	10 U	
Benzo(a)anthracene		56-55-3	0.002*	80 UJ	10 U	300 J	10 U	10 U							
Benzo(b)fluoranthene		205-99-2	0.002*	80 UJ	10 U	160 J	10 U	10 U							
Benzo(k)fluoranthene		207-08-9	0.002*	80 UJ	10 U	73 J	10 U	10 U							
Benzo(g,h,i)perylene		191-24-2	NE	80 UJ	10 U	67 J	10 U	10 U							
Benzo(a)pyrene		50-32-8	ND	80 UJ	10 U	200 J	10 U	10 U							
Chrysene		218-01-9	0.002*	80 UJ	10 U	260 J	10 U	10 U							
Dibenz(a,h)anthracene		53-70-3	NE	80 UJ	10 U	16 J	10 U	10 U							
Fluoranthene		206-44-0	50*	80 UJ	10 U	10 U	10 U	10 U	5 J	10 U	10 U	560 J	6 J	10 U	
Fluorene		86-73-7	50*	80 UJ	10 U	10 U	10 U	10 U	37	13	10 U	10 U	430 J	21	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	80 UJ	10 U	50 J	10 U	10 U							
2-Methylnaphthalene		91-57-6	NE	80 UJ	10 U	10 U	10 U	10 U	180 J	20	10 U	10 U	1100	6 J	10 U
Naphthalene		91-20-3	10*	80 UJ	10 U	9 J	10 U	10 U	1200	270	10 U	10 U	5900	120	10 U
Phenanthrene		85-01-8	50*	80 UJ	10 U	10 U	10 U	10 U	47	5 J	10 U	10 U	1500	45	10 U
Pyrene		129-00-0	50*	80 UJ	10 U	10 U	10 U	10 U	6 J	10 U	10 U	750 J	6 J	10 U	
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	11	3	ND	1637	367	ND	ND	12876	250	ND

Table 3. Summary of BTEX, MTBE and PAH Results

Sag Harbor Former MGP Site

Groundwater Monitoring Program - Q3 2014

		Location Name	SHMW-09S	SHMW-09I	SHMW-10S	SHMW-11S	SHMW-12S	SHMW-13S
		Sample Name	SHMW-09S	SHMW-09I	SHMW-10S	SHMW-11S	SHMW-12S	SHMW-13S
		Start Depth	2	35	5	3.5	1.5	1.5
		End Depth	12	45	15	13.5	6.5	6.5
		Depth Unit	ft	ft	ft	ft	ft	ft
		Sample Date	9/23/2014	9/23/2014	9/24/2014	9/24/2014	9/24/2014	9/24/2014
		Parent Sample						
Analyte	Units	CAS No.	NYS AWQS					
<b>BTEX</b>	ug/L							
Benzene		71-43-2	1	90	4	1 U	1 U	25
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	11	1 U	1 U	4	1 U
Total Xylene		1330-20-7	5	35	1 U	1 U	27	1 U
Total BTEX (ND=0)		TBTEX_ND0	NE	136	4	ND	ND	56
<b>Other VOCs</b>	ug/L							
Methyl tert-butyl ether (MTBE)		1634-04-4	10*	10 U				
<b>NYSDEC PAH17</b>	ug/L							
Acenaphthene		83-32-9	20*	140 J	10 U	10 U	8 J	10 U
Acenaphthylene		208-96-8	NE	1 J	10 U	10 U	1 J	10 U
Anthracene		120-12-7	50*	4 J	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	10 U				
Benzo(b)fluoranthene		205-99-2	0.002*	10 U				
Benzo(k)fluoranthene		207-08-9	0.002*	10 U				
Benzo(g,h,i)perylene		191-24-2	NE	10 U				
Benzo(a)pyrene		50-32-8	ND	10 U				
Chrysene		218-01-9	0.002*	10 U				
Dibenz(a,h)anthracene		53-70-3	NE	10 U				
Fluoranthene		206-44-0	50*	10 U				
Fluorene		86-73-7	50*	27	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	10 U				
2-Methylnaphthalene		91-57-6	NE	15	10 U	10 U	5 J	10 U
Naphthalene		91-20-3	10*	1100	2 J	10 U	10 U	480
Phenanthrene		85-01-8	50*	28	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U				
Total PAH (17) (ND=0)		TPAH17_ND0	NE	1315	2	ND	1	493

**Table 3. Summary of BTEX, MTBE and PAH Results**  
Sag Harbor Former MGP Site  
Groundwater Monitoring Program - Q3 2014

**Notes:**

ug/L = micrograms per liter or parts per billion (ppb)

BTEX = benzene, toluene, ethylbenzene, and xylenes

PAHs = polycyclic aromatic hydrocarbons

VOCs = volatile organic compounds

Total BTEX and Total PAHs are calculated using detects only.

Total PAH16 is calculated using the EPA16 list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Total PAH17 is calculated using the EPA16 list of analytes plus 2-Methylnaphthalene

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

CAS No. = Chemical Abstracts Service Number

MGP = Manufactured Gas Plant

ND = not detected

NE = not established

NYSDEC = New York State Department of Environmental Conservation

Bolding indicates a detected result concentration

Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

**Data Qualifiers:**

J = estimated value

U = indicates not detected to the reporting limit

UJ = not detected at or above the reporting limit shown and the reporting limit is estimated

**Table 4. Summary of Historical Total BTEX Results**  
**Sag Harbor Former MGP Site**  
**Groundwater Monitoring Program - Q3 2014**

Well No.	Screen Interval (feet)	BTEX Concentrations ( $\mu\text{g/L}$ )																			
		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/01SR	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/01IR	35.0 - 45.0	--	--	5	0	0	--	--	--	0	--	--	--	0	0	0	--	--	--		
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SHMW-02I/02IR	35.0 - 45.0	--	--	26	0	1,179	16	20	20	19	25	0	0	0	0	--	11	12	15		
SHMW-02D/02DR	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/04SR	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/05SR	2.0 - 12.0	--	--	37	69	83	--	107	282	2,960	115	202	45	43	26	35	458	676	98		
SHMW-05I/05IR	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/07SR	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/07IR	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 2014**

Well No.	Screen Interval (feet)	BTEX Concentrations ( $\mu\text{g/L}$ )																	
		2008				2009				2010				2011				2012	
		March	June	Sep	Dec	March	June	Sep	Dec	March	June	Sep	Dec	March	June	Sep	Dec	March	June
MW-01	1.50 - 7.32	337	141	208	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02	0.50 - 7.25	8,865	7,415	2,240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	2.17 - 10.17	2,842	2,241	2,875	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	1.25 - 6.81	--	15	79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	1	33	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-01S/01SR	1.0 - 6.0	1,595	306	243	--	--	--	--	--	--	--	--	0	1	0	0	3	0	0
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	3	--	--
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	3	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	3	0	3	0	5	1	0
SHMW-02I/02IR	35.0 - 45.0	18	41	29	--	--	--	--	--	--	--	--	4	0	--	--	14	--	--
SHMW-02D/02DR	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--
SHMW-03S	2.0 - 12.0	3	0	5	13	111	24	4	9	40	5	0	9	24	2	3	18	0	1
SHMW-03I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	0	--	--	--	0	--	--	--
SHMW-04S/04SR	2.0 - 12.0	7,567	8,059	7,561	--	--	--	--	--	--	--	--	2,717	702	469	292	572	391	709
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-05S/05SR	2.0 - 12.0	77	83	64	--	--	--	--	--	--	--	--	20	22	25	27	45	25	29
SHMW-05I/05IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--
SHMW-06S	2.0 - 6.0	1,296	1,343	1,298	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-07S/07SR	1.0 - 11.0	--	1,075	1,374	--	--	1,500	3,472	2,183	1,825	3,946	--	858	455	1,172	607	700	1,418	670
SHMW-07I/07IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	11	--	--
SHMW-08S	1.0 - 7.0	8	9	10	--	5	5	4	6	13	4	9	7	10	5	9	5	7	
SHMW-08I	35.0 - 45.0	--	--	--	--	0	--	0	--	--	0	--	--	--	--	5	--	--	--
SHMW-09S	2.0 - 12.0	1,039	1,298	671	483	--	584	455	224	--	--	--	--	--	--	--	--	--	--
SHMW-09I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--
SHMW-10S	5.0 - 15.0	0	1	0	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	--	--	--	5	--	--	--
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
SHMW-11I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	0	--	--	--	0	--	--	--
SHMW-12S	1.5 - 6.5	166	482	111	279	28	315	45	58	222	217	8	70	82	672	473	337	127	434
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	2	--	--	0	--	--	--	6	--	--	--
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	12	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 2014**

Well No.	Screen Interval (feet)	BTEX Concentrations ( $\mu\text{g/L}$ )										Min	Max	Mean			
		Sampling Date		2013				2014									
		Sept	Dec	March	June	Sept	Dec	March	June	Sept							
MW-01	1.50 - 7.32	--	--	--	--	--	--	--	--	--	0	2,720	236				
MW-02	0.50 - 7.25	--	--	--	--	--	--	--	--	--	98	15,181	9,129				
MW-03	2.17 - 10.17	--	--	--	--	--	--	--	--	--	560	4,965	2,416				
MW-04	1.25 - 6.81	--	--	--	--	--	--	--	--	--	0	864	149				
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	5	18,900	5,689				
MW-06	2.47 - 7.47	--	--	--	--	--	--	--	--	--	0	334	50				
SHMW-01S/01SR	1.0 - 6.0	0	0	1	8	0	0	0	--	0	0	5,183	958				
SHMW-01I/01IR	35.0 - 45.0	--	0	--	--	1	--	--	--	--	0	5	1				
SHMW-01D	65.0 - 75.0	--	0	--	--	0	--	--	--	--	0	3	1				
SHMW-02S	1.0 - 6.0	0	0	0	5	0	0	0	--	0	0	5	1				
SHMW-02I/02IR	35.0 - 45.0	--	0	--	--	11	--	--	--	0	0	1,179	61				
SHMW-02D/02DR	65.0 - 75.0	--	0	--	--	0	--	--	--	--	0	5	1				
SHMW-03S	2.0 - 12.0	1	0	6	0	0	2	3	--	5	0	131	31				
SHMW-03I	35.0 - 45.0	--	0	--	--	4	--	--	--	0	0	52	4				
SHMW-04S/04SR	2.0 - 12.0	654	449	158	14	949	1,846	145	504	900	14	25,860	6,879				
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	5	1				
SHMW-05S/05SR	2.0 - 12.0	28	16	16	683	17	21	13	12	15	12	2,960	190				
SHMW-05I/05IR	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	0	0				
SHMW-06S	2.0 - 6.0	--	--	--	--	--	--	--	--	--	1,296	4,289	2,214				
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0				
SHMW-07S/07SR	1.0 - 11.0	2,822	251	1,289	852	972	1,305	769	1991	3,508	185	3,946	1,518				
SHMW-07I/07IR	35.0 - 45.0	--	0	--	--	0	--	--	--	--	0	11	1				
SHMW-08S	1.0 - 7.0	2	6	5	6	4	3	8	4	2	0	19	6				
SHMW-08I	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	5	0				
SHMW-09S	2.0 - 12.0	130	165	167	198	118	93	155	193	136	93	1,298	559				
SHMW-09I	35.0 - 45.0	0	0	--	--	2	--	--	--	4	0	4	0				
SHMW-10S	5.0 - 15.0	0	0	0	0	0	0	0	--	0	0	1	0				
SHMW-10I	35.5 - 45.5	--	0	--	--	0	--	--	--	--	0	5	0				
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	8	0				
SHMW-11I	35.0 - 45.0	0	--	--	--	0	--	--	--	0	0	0	0				
SHMW-12S	1.5 - 6.5	41	19	87	175	142	26	67	175	56	0	930	216				
SHMW-12I	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	23	3				
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	--	0	0	12	0				
SHMW-13I	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	0	0				

**NOTES:**

-- not analyzed or not applicable

$\mu\text{g/L}$  - 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 2014

Well No.	Screen Interval (feet)	Total PAH Concentrations ( $\mu\text{g/L}$ )																		
		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/01SR	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/01IR	35.0 - 45.0	--	--	32	0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SHMW-02I/02IR	35.0 - 45.0	--	--	266	0	580,200	41	185	124	271	30	74	32	91	89	0	10	175	32	
SHMW-02D/02DR	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/04SR	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/05SR	2.0 - 12.0	--	--	13	170	94	--	82	91	26	53	17	11	11	110	0	0	14	8	
SHMW-05I/05IR	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/07SR	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/07IR	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 2014**

Well No.	Screen Interval (feet)	Total PAH Concentrations ( $\mu\text{g/L}$ )																	
		Sampling Date																	
		2008				2009				2010				2011				2012	
		March	June	Sep	Dec	March	June	Sep	Dec	March	June	Sep	Dec	March	June	Sep	Dec	March	June
MW-01	1.50 - 7.32	145	2	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02	0.50 - 7.25	400	3,455	3,488	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	2.17 - 10.17	508	96	1,109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	1.25 - 6.81	--	0	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	0	0	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-01S/01SR	1.0 - 6.0	0	0	0	--	--	--	--	--	--	--	--	0	0	0	0	4	7	21
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	5	0
SHMW-02I/02IR	35.0 - 45.0	8	42	209	--	--	--	--	--	--	--	--	9	3	--	--	0	--	--
SHMW-02D/02DR	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--
SHMW-03S	2.0 - 12.0	0	0	17	29	0	20	0	0	0	22	0	0	2	7	25	22	6	10
SHMW-03I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	0	--	--	--	0	--	--	--
SHMW-04S/04SR	2.0 - 12.0	0	1,328	1,868	--	--	--	--	--	--	--	--	3,598	1,440	978	811	942	581	1,296
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-05S/05SR	2.0 - 12.0	2	0	31	--	--	--	--	--	--	--	--	0	4	167	273	131	309	219
SHMW-05I/05IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--
SHMW-06S	2.0 - 6.0	0	44	5,848	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHMW-07S/07SR	1.0 - 11.0	--	54	3,252	--	--	2,919	4,722	5,286	3,410	4,547	--	1,456	0	1,736	885	955	927	444
SHMW-07I/07IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	4	--	--
SHMW-08S	1.0 - 7.0	14	21	55	--	--	59	60	112	129	201	34	3	11	185	195	35	152	111
SHMW-08I	35.0 - 45.0	--	--	--	--	--	1	--	0	--	--	--	0	--	--	--	0	--	--
SHMW-09S	2.0 - 12.0	0	92	485	503	--	68	39	389	--	--	--	--	--	--	--	--	--	--
SHMW-09I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--
SHMW-10S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
SHMW-10I	35.5 - 45.5	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	--
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	4	6	0
SHMW-11I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	--
SHMW-12S	1.5 - 6.5	9	137	259	280	0	332	4	216	177	585	3	0	0	584	739	513	154	361
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	2	--	--
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	0
SHMW-13I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	1	--	--

Table 5. Summary of Historical Total PAH Results

Sag Harbor Former MGP Site

Groundwater Monitoring Program - Q3 2014

Well No.	Screen Interval (feet)	Total PAH Concentrations ( $\mu\text{g/L}$ )											
		2012		Sampling Date				2014			Min	Max	Mean
		Sept	Dec	March	June	Sept	Dec	March	June	Sept			
MW-01	1.50 - 7.32	--	--	--	--	--	--	--	--	--	0	4,906	380
MW-02	0.50 - 7.25	--	--	--	--	--	--	--	--	--	0	25,167	6,235
MW-03	2.17 - 10.17	--	--	--	--	--	--	--	--	--	92	7,034	2,352
MW-04	1.25 - 6.81	--	--	--	--	--	--	--	--	--	0	3,612	304
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	101	431,600	80,149
MW-06	2.47 - 7.47	--	--	--	--	--	--	--	--	--	0	5,416	420
SHMW-01S/01SR	1.0 - 6.0	0	0	8	0	0	0	67	--	0	0	4,147	763
SHMW-01I/01IR	35.0 - 45.0	--	0	--	--	0	--	--	--	--	0	32	4
SHMW-01D	65.0 - 75.0	--	0	--	--	0	--	--	--	--	0	0	0
SHMW-02S	1.0 - 6.0	0	0	5	0	0	0	0	--	0	0	5	1
SHMW-02I/02IR	35.0 - 45.0	--	56	--	--	245	--	--	--	11	0	580,200	23,288
SHMW-02D/02DR	65.0 - 75.0	--	0	--	--	0	--	--	--	--	0	308	49
SHMW-03S	2.0 - 12.0	22	2	23	14	16	6	5	--	3	0	430	65
SHMW-03I	35.0 - 45.0	--	0	--	--	4	--	--	--	0	0	320	23
SHMW-04S/04SR	2.0 - 12.0	1,195	639	402	100	1,875	1,916	190	523	1,637	0	6,669	2,643
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	18	3
SHMW-05S/05SR	2.0 - 12.0	420	20	107	175	155	291	171	153	367	0	420	109
SHMW-05I/05IR	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	17	2
SHMW-06S	2.0 - 6.0	--	--	--	--	--	--	--	--	--	0	5,848	2,690
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	2	0
SHMW-07S/07SR	1.0 - 11.0	4,342	419	2,620	950	4,030	1,381	1733	5945	12,876	0	12,876	3,102
SHMW-07I/07IR	35.0 - 45.0	--	0	--	--	1	--	--	--	--	0	2,212	222
SHMW-08S	1.0 - 7.0	113	182	95	151	180	148	147	174	250	3	250	94
SHMW-08I	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	13	1
SHMW-09S	2.0 - 12.0	787	690	721	575	603	211	560	832	1,315	0	2,737	934
SHMW-09I	35.0 - 45.0	0	0	--	--	2	--	--	2	0	3	1	
SHMW-10S	5.0 - 15.0	0	0	0	0	0	1	0	--	0	0	22	1
SHMW-10I	35.5 - 45.5	--	0	--	--	0	--	--	--	--	0	0	0
SHMW-11S	3.5 - 13.5	0	2	1	0	7	16	1	0	1	0	173	5
SHMW-11I	35.0 - 45.0	--	0	--	--	1	--	--	--	0	4	0	
SHMW-12S	1.5 - 6.5	217	104	62	410	604	133	0	353	493	0	739	246
SHMW-12I	35.0 - 45.0	--	0	--	--	0	--	--	--	0	0	20	2
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	--	1	0	3	0
SHMW-13I	35.0 - 45.0	--	0	--	--	0	--	--	--	0	1	0	

## NOTES:

-- not analyzed or not applicable

 $\mu\text{g/L}$  - micrograms per liter

PAH - polycyclic aromatic hydrocarbons

QUARTERLY GROUNDWATER MONITORING REPORT  
THIRD QUARTER (Q3) 2014  
SAG HARBOR FORMER MGP SITE  
NATIONAL GRID  
FEBRUARY 2015  
[WWW.SAGHARBORMGPSITE.COM](http://WWW.SAGHARBORMGPSITE.COM)

## Figures

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0 2000 4000  
SCALE: 1:2000

GEI Consultants

Sag Harbor Former MGP Site  
Sag Harbor, New York

GEI

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SITE LOCATION MAP

**nationalgrid**

Project 093190

February 2015

Fig. 1









