

Geotechnical
Environmental and
Water Resources
Engineering

**Quarterly Groundwater Monitoring Report
Second Quarter (Q2) 2008**

Sag Harbor Former MGP Site

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

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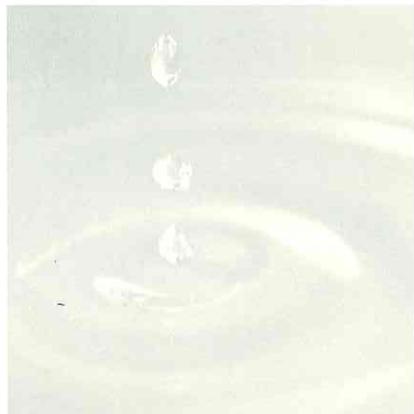


Table of Contents

1. Sag Harbor Site and Adjacent Off-Site Areas 1

Tables

- 1 Water Level Measurements and Calculated Water Elevations – Q2 2008
- 2 Summary of Historic NAPL Observations
- 3 Summary of BTEX, MTBE and PAH Results – Q2 2008
- 4 Summary of Historic Total BTEX Results
- 5 Summary of Historic Total PAH Results

Figures

- 1 Site Location Map
- 2 Monitoring Well Location Map
- 3 Shallow Groundwater Contours – High Tide – 6/16/08
- 4 Shallow Groundwater Contours – Low Tide – 6/16/08
- 5 Intermediate Groundwater Contours – High Tide – 6/16/08
- 6 Intermediate Groundwater Contours – Low Tide – 6/16/08

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1. Sag Harbor Site and Adjacent Off-Site Areas

Q2 2008 Groundwater Monitoring Event Summary

Event Date:	June 16 through June 20, 2008
Site Phase:	Quarterly groundwater monitoring
Location:	The location of the Sag Harbor Former MGP Site is depicted on Figure 1 .
Monitoring Program:	<p><i>Number of Wells:</i> A total of 31 monitoring wells are located on-site and adjacent to the site (see Figure 2). MW-05 was destroyed sometime between March and June 2007.</p> <p><i>Hydrological Data:</i> Groundwater levels were measured at 29 monitoring wells. Depth to groundwater and calculated groundwater elevations are shown on Table 1. The groundwater flow direction was generally to the west towards Sag Harbor Cove (see Figures 3 through 6). 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 were as follows:</p> <ul style="list-style-type: none">▪ Depth to the water table in shallow wells at high tide ranged from 0.49 (SHMW-12S) to 5.00 (SHMW-11S) feet below the well measuring point.▪ Water table elevations in shallow wells at high tide ranged from 0.74 (SHMW-11S) to 3.81 (SHMW-08S) feet above mean sea level (MSL).▪ Depth to the water table in shallow wells at low tide ranged from 0.51 (SHMW-12S) to 5.36 (SHMW-11S) feet below the well measuring point.▪ Water table elevations in shallow wells at low tide ranged from 0.38 (SHMW-11S) to 3.83 (SHMW-08S) feet above MSL.▪ The calculated shallow hydraulic gradient for high tide was 0.0074 feet/foot. The calculated shallow hydraulic gradient for low tide was 0.0085 feet/foot.

- Depth to groundwater in intermediate wells at high tide ranged from **0.26** (SHMW-12I) to **4.77** (SHMW-11I) feet below the well measuring point.
- Groundwater elevations in intermediate wells at high tide ranged from **1.02** (SHMW-11I) to **3.32** (SHMW-02I) feet above MSL.
- Depth to groundwater in intermediate wells at low tide ranged from **0.41** (SHMW-12I) to **5.54** (SHMW-11I) feet below the well measuring point.
- Groundwater elevations in intermediate wells at low tide ranged from **0.25** (SHMW-11I) to **2.90** (SHMW-02I and SHMW-13I) feet above MSL.
- The calculated intermediate hydraulic gradient for high tide was **0.0060** feet/foot. The calculated intermediate hydraulic gradient for low tide was **0.0069** feet/foot.

*NAPL
Thickness
Data:*

Table 2 provides a summary of historic non-aqueous phase liquid (NAPL) data. Seven monitoring wells (MW-02, MW-03, MW-04, SHMW-02I, SHMW-04S, SHMW-06S and SHMW-07S) are typically monitored for NAPL on a quarterly basis as part of the groundwater monitoring program. In addition, all of the wells are monitored for NAPL annually. In Q2 2008, 17 wells were monitored for NAPL.

As shown in **Table 2**, in Q2 2008, measurable thicknesses of dense non-aqueous phase liquid (DNAPL) were found in SHMW-02I and SHMW-04S at approximate thicknesses of 1.5 feet and 0.6 feet, respectively. Trace amounts of DNAPL were observed at MW-01, MW-02, MW-03, MW-04 and SHMW-06S.

<p><i>Chemical Data:</i></p>	<p>A total of 18 monitoring wells were sampled for BTEX and MTBE (EPA Method 8260) and PAHs (EPA Method 8270). Wells were sampled during the period June 17 to June 20, 2008. Chemical data for Q2 2008 (see Table 3) indicate:</p> <ul style="list-style-type: none">▪ Total BTEX concentrations ranged from less than method detection limits in three of the wells sampled to 8,059 micrograms per liter ($\mu\text{g/L}$) in MW-04S.▪ Total PAH concentrations ranged from less than method detection limits in eight of the wells sampled to 3,455 $\mu\text{g/L}$ in MW-02.
<p>Data Trend Analysis:</p>	<p>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 Q2 2008 when compared to previous sampling events.</p> <p>In Q2 2008, BTEX concentrations were below laboratory detection limits in three of the 17 shallow wells sampled. BTEX concentrations have been below detection limits in two shallow wells (SHMW-11S and SHMW-13S) since these wells were installed in 2002. In 10 of the 14 shallow wells that had detectable BTEX concentrations, the BTEX concentrations were lower than their respective means. In three of the remaining 4 wells, the BTEX concentrations were similar to, within the same order of magnitude, as their respective means. In the final remaining well, the BTEX concentration was within one order of magnitude of the mean.</p> <p>Between Q1 2008 and Q2 2008, BTEX concentrations decreased in four of the 12 shallow wells with detected BTEX concentrations that were sampled in both quarters. BTEX increases were observed in eight of the shallow wells, but these increases were consistent with typical historic fluctuations. Most of the BTEX increases were insignificant, within the same order of magnitude in concentrations between Q1 and Q2 2008.</p> <p>In Q2 2008, one intermediate well, SHMW-02I, was sampled. The BTEX concentration in SHMW-02I remained similar between Q1 2008 (18 $\mu\text{g/l}$) and Q2 2008 (41 $\mu\text{g/l}$).</p> <p>In Q2 2008, PAH concentrations were below the laboratory detection limits in eight of 17 shallow wells sampled. In all of the nine shallow wells that had detectable PAH concentrations, the PAH concentrations were lower than their respective means.</p>

Between Q1 2008 and Q2 2008, PAH concentrations decreased in three of the 15 shallow wells that were sampled in both quarters, and remained below laboratory detection limits in six other shallow wells. PAHs increased in the six remaining shallow wells sampled; however, these increases were not significant being consistent with typical historic fluctuations, and were lower than their respective means.

In Q2 2008, one intermediate well, SHMW-02I, was sampled. The PAH concentration increased from 8 µg/l in Q1 2008 to 42 µg/l in Q2 2008.

MTBE concentrations remained below laboratory detection limits in all wells and were estimated at concentrations below the method detection level of 10 ug/L in three wells at concentrations of between 1 and 2 ug/L.

Water table elevations (see **Table 1**) at shallow wells during high tide conditions have decreased between Q1 2008 and Q2 2008 in 12 of the 16 wells. Decreases in these wells ranged from 0.16 to 1.11 feet. The average decrease over these wells was 0.7 feet. The remaining four wells had increases of between 0.1 and 0.51 feet.

Water table elevations at shallow wells during low tide conditions have decreased between Q1 2008 and Q2 2008 in 12 of 16 wells. Decreases ranged from 0.17 to 1.09 feet. The average decrease over these wells was 0.64 feet. For the remaining four wells, the increases ranged from 0.17 to 0.98 feet.

Variable dissolved constituent concentrations detected in shallow groundwater over the past 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 PAHs trapped beneath the interface.

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

Historically, trace amounts of NAPL have been found in two on-site shallow wells (MW-03 and MW-04), and one off-site shallow well (SHMW-06S). In Q2 2008, measurable quantities of NAPL were found in SHMW-02I and SHMW-04S, and trace amounts of NAPL were found in MW-01, MW-02, MW-03, MW-04 and SHMW-06S.

Q2 2008 GROUNDWATER MONITORING REPORT
SAG HARBOR FORMER MGP
NATIONAL GRID
AUGUST 2008

Since MW-05 was destroyed, it could not be checked for NAPL.

- Current Plans:** Continue quarterly groundwater and NAPL monitoring at selected monitoring wells.

Q2 2008 GROUNDWATER MONITORING REPORT
SAG HARBOR FORMER MGP
NATIONAL GRID
AUGUST 2008

Tables

Table 1
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Water Level Measurements and Calculated Water Elevations - Q2 2008

Well ID	Top of Casing Elevation (ft)	Tide	Time	6/16/2008		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
MW-01	5.09	High	949	1.47	3.62	
		Low	1549	1.43	3.66	
MW-02	4.48	High	945	0.78	3.70	
		Low	1543	0.83	3.65	
MW-03	4.59	High	948	1.80	2.79	
		Low	1548	1.78	2.81	
MW-04	4.13	High	946	0.83	3.30	
		Low	1545	0.84	3.29	
MW-05	5.07	High	--	--	--	Well destroyed.
		Low	--	--	--	
MW-06	5.38	High	951	1.90	3.48	
		Low	1552	1.91	3.47	
SHMW-01S	4.52	High	947	1.64	2.88	
		Low	1546	1.59	2.93	
SHMW-01I	4.47	High	947	1.36	3.11	
		Low	1547	1.90	2.57	
SHMW-02I	5.22	High	949	1.90	3.32	
		Low	1550	2.32	2.90	
SHMW-02D	5.19	High	956	1.58	3.61	
		Low	1551	2.06	3.13	
SHMW-03S	5.43	High	924	3.13	2.30	
		Low	1523	3.19	2.24	
SHMW-03I	5.43	High	925	2.41	3.02	
		Low	1524	2.87	2.56	
SHMW-04S	5.71	High	923	3.47	2.24	
		Low	1522	3.48	2.23	
SHMW-04I	5.71	High	922	2.51	3.20	
		Low	1522	3.02	2.69	
SHMW-05S	6.23	High	921	3.69	2.54	
		Low	1518	3.67	2.56	
SHMW-05I	6.14	High	921	3.23	2.91	
		Low	1518	3.47	2.67	
SHMW-06S	4.44	High	938	1.18	3.26	
		Low	1536	1.15	3.29	
SHMW-06I	4.43	High	938	1.43	3.00	
		Low	1537	1.76	2.67	
SHMW-07S	5.05	High	--	--	--	Car parked over well during high and low tides and could not obtain water level.
		Low	--	--	--	
SHMW-07I	5	High	--	--	--	Car parked over well during high and low tides and could not obtain water level.
		Low	--	--	--	
SHMW-08S	5.26	High	942	1.45	3.81	
		Low	1541	1.43	3.83	
SHMW-08I	5.08	High	943	1.89	3.19	
		Low	1542	2.30	2.78	
SHMW-09S	4.36	High	933	1.91	2.45	
		Low	1531	1.88	2.48	
SHMW-09I	4.41	High	934	1.54	2.87	
		Low	1532	1.77	2.64	
SHMW-10S	5.91	High	928	4.13	1.78	
		Low	1526	4.50	1.41	
SHMW-10I	5.89	High	929	3.55	2.34	
		Low	1526	4.50	1.39	
SHMW-11S	5.74	High	931	5.00	0.74	
		Low	1529	5.36	0.38	
SHMW-11I	5.79	High	931	4.77	1.02	
		Low	1530	5.54	0.25	
SHMW-12S	3.42	High	935	0.49	2.93	
		Low	1534	0.51	2.91	
SHMW-12I	3.29	High	936	0.26	3.03	
		Low	1534	0.41	2.88	
SHMW-13S	4.68	High	940	1.31	3.37	
		Low	1539	1.29	3.39	
SHMW-13I	4.7	High	941	1.47	3.23	
		Low	1539	1.80	2.90	

-- Not Available

Table 2
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic NAPL Observations

Well ID	May 2002 Observations	May 2004 Observations	August 2004 Observations	October 2004 Observations	November 2004 Observations	December 2004 Observations	January 2005 Observations	February 2005 Observations	March 2005 Observations	April/Q1 2005 Observations	June/Q2 2005 Observations
MW-01	None Observed	Odor	None Observed	Not Checked	NR	NR	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	Approx. 0.15' of DNAPL	Trace DNAPL at bottom of tape
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	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	None Observed	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.	Sporadic DNAPL, approx. 0.1' of LNAPL.	Approx. 3.0' of DNAPL
MW-06	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01S	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01I	None Observed	None Observed	NR	NR	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	Approx. 1.1' of DNAPL	Approx. 0.75' of DNAPL
SHMW-02D	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR

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

Table 2
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic NAPL Observations

Well ID	May 2002 Observations	May 2004 Observations	August 2004 Observations	October 2004 Observations	November 2004 Observations	December 2004 Observations	January 2005 Observations	February 2005 Observations	March 2005 Observations	April/Q1 2005 Observations	June/Q2 2005 Observations
SHMW-03S	None Observed	Odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-03I	None Observed	None Observed	NR	NR	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	Approx. 0.25' of DNAPL	Approx. 0.90' of DNAPL
SHMW-04I	None Observed	None Observed	NR	NR	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	None Observed	None Observed
SHMW-05I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-06S	Slight sheen and naphthalene-like odor	Naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-06I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-07S	Sheen and naphthalene-like odor	Slight odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-07I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-08S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR

Notes:
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Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic NAPL Observations

Well ID	May 2002 Observations	May 2004 Observations	August 2004 Observations	October 2004 Observations	November 2004 Observations	December 2004 Observations	January 2005 Observations	February 2005 Observations	March 2005 Observations	April/Q1 2005 Observations	June/Q2 2005 Observations
SHMW-08I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-09S	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-09I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-12S	None Observed	Sheen, strong sulfur-like odor	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-12I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR

Notes:

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LNAPL - Light Non-aqueous Phase Liquid
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Table 2
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic NAPL Observations

Well ID	September/Q3 2005 Observations	December/Q4 2005 Observations	March/Q1 2006 Observations	June/Q2 2006 Observations	September/Q3 2006 Observations	December/Q4 2006 Observations	March/Q1 2007 Observations	June/Q2 2007 Observations	September/Q3 2007 Observations	December/Q4 2007 Observations	March/Q1 2008 Observations	June/Q2 2008 Observations
MW-01	NR	NR	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed	Trace DNAPL
MW-02	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	Approx.0.07' DNAPL	Approx. 0.11' DNAPL	Approx. ~0.08'	Trace DNAPL	Moderate DNAPL; not measureable
MW-03	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)	None Observed	Trace DNAPL (coating on tubes)	Trace	Trace DNAPL (On bottom 1.5' of tubes)	Trace DNAPL
MW-04	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)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Approx. ~0.02'	NR	Trace DNAPL
MW-05	Approx. 0.75' of DNAPL, approx. 0.12' of LNAPL	DNAPL blebs in purge H ₂ 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)	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-01S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-01I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-02I	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)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Approx. ~0.60'	Approx. 3' DNAPL	Approx. 1.5' DNAPL
SHMW-02D	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR

Notes:
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 LNAPL - Light Non-aqueous Phase Liquid
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Table 2
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic NAPL Observations

Well ID	September/Q3 2005 Observations	December/Q4 2005 Observations	March/Q1 2006 Observations	June/Q2 2006 Observations	September/Q3 2006 Observations	December/Q4 2006 Observations	March/Q1 2007 Observations	June/Q2 2007 Observations	September/Q3 2007 Observations	December/Q4 2007 Observations	March/Q1 2008 Observations	June/Q2 2008 Observations
SHMW-03S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-03I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-04S	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	Approx.0.50' DNAPL	Approx. 0.5' DNAPL	Approx. ~0.61'	Approx. 1.05' DNAPL	Approx.0.6' DNAPL
SHMW-04I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-05S	None Observed	None Observed	No DNAPL observed	None Observed	None Observed	None Observed	None Observed	None Observed	NR	None Observed	None Observed	None Observed
SHMW-05I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-06S	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	Trace DNAPL (on tubing)	Trace DNAPL			
SHMW-06I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-07S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	Trace	NR	NR
SHMW-07I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-08S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed

Notes:

DNAPL - Dense Non-aqueous Phase Liquid
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WC - Water Column
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Table 2
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic NAPL Observations

Well ID	September/Q3 2005 Observations	December/Q4 2005 Observations	March/Q1 2006 Observations	June/Q2 2006 Observations	September/Q3 2006 Observations	December/Q4 2006 Observations	March/Q1 2007 Observations	June/Q2 2007 Observations	September/Q3 2007 Observations	December/Q4 2007 Observations	March/Q1 2008 Observations	June/Q2 2008 Observations
SHMW-08I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-09S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-09I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-10S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-10I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-11S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-11I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-12S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-12I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR
SHMW-13S	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed
SHMW-13I	NR	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR

Notes:

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

Table 3
 Sag Harbor Former MGP Site
 Groundwater Monitoring Program
 Summary of BTEX, MTBE, and PAH Results Q2 2008

Sample Name: Screened Interval: Sample Date:		MW-01 1.5-7.25 ft 6/20/2008	MW-02 0.5-7.25 ft 6/17/2008	MW-03 2-10 ft 6/19/2008	MW-04 1.25-6.75 ft 6/18/2008	MW-06 2.5-7.5 ft 6/18/2008	SHMW-01S 1-6 ft 6/19/2008	SHMW-02I 35-45 ft 6/20/2008	SHMW-03S 2-12 ft 6/17/2008	SHMW-04S 2-12 ft 6/19/2008
BTEX (ug/L)										
Benzene	1	120	370 J	1000	11	2 J	150	2 J	10 U	4900
Toluene	5	5 J	45	51	10 U	1 J	5 J	1 J	10 U	59
Ethylbenzene	5	9 J	4500	630	3 J	14	77	4 J	10 U	1700
Xylene, total	5	7 J	2500	560	1 J	16	74	34	10 U	1400
Total BTEX	NE	141	7415	2241	15	33	306	41	ND	8059
Other VOCs (ug/L)										
Methyl tert-butyl ether	NE	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Non-carcinogenic PAHs (ug/L)										
Acenaphthene	20*	2 J	210 J	74	10 U	10 U	10 U	3 J	10 U	180
Acenaphthylene	NE	10 U	3 J	5 J	10 U	10 U	10 U	21	10 U	7
Anthracene	50*	10 U	15	10 U	10 U	10 U	10 U	2 J	10 U	8
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	8	7	10 U	10 U	10 U	2 J	10 U	4 J
Fluorene	50*	10 U	43	10 U	10 U	10 U	10 U	5	10 U	28
Methylnaphthalene,2-	NE	10 U	410	10 U	10 U	10 U	10 U	7	10 U	78
Naphthalene	10*	10 U	2700	10 U	10 U	10 U	10 U	10 U	10 U	1000
Phenanthrene	50*	10 U	57	10 U	10 U	10 U	10 U	10 U	10 U	18
Pyrene	50*	10 U	9	8	10 U	10 U	10 U	2 J	10 U	5
Total Noncarcinogenic PAHs	NE	2	3455	94	ND	ND	ND	42	ND	1328
Carcinogenic PAHs (ug/L)										
Benz[a]anthracene	0.002*	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	1 J	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	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	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	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	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	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	2	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)										
Total PAHs	NE	2	3455	96	ND	ND	ND	42	ND	1328

Table 3
 Sag Harbor Former MGP Site
 Groundwater Monitoring Program
 Summary of BTEX, MTBE, and PAH Results Q2 2008

Sample Name:		SHMW-05S	Duplicate of SHMW-05S	SHMW-06S	SHMW-07S	SHMW-08S	SHMW-09S	SHMW-10S	SHMW-11S	SHMW-12S	SHMW-13S
Screened Interval:		2-12 ft	2-12 ft	2-6 ft	1-11 ft	1-7 ft	2-12 ft	5-15 ft	3.5-13.5 ft	1.5-6.5 ft	1.5-6.5 ft
Sample Date:	NYS AWQS	6/18/2008	6/18/2008	6/18/2008	6/19/2008	6/17/2008	6/19/2008	6/18/2008	6/17/2008	6/18/2008	6/17/2008
BTEX (ug/L)											
Benzene	1	35	34	290	320	9 J	460	10 U	10 U	400	10 U
Toluene	5	10 U	10 U	23	15	10 U	18	10 U	10 U	2 J	10 U
Ethylbenzene	5	26	28	660	450	10 U	560	1 J	10 U	30	10 U
Xylene, total	5	22	22	370	290	10 U	260	10 U	10 U	50	10 U
Total BTEX	NE	83	84	1343	1075	9	1298	1	ND	482	ND
Other VOCs (ug/L)											
Methyl tert-butyl ether	NE	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	2 J	10 U
Non-carcinogenic PAHs (ug/L)											
Acenaphthene	20*	10 U	10 U	34	41	11 J	67	10 U	10 U	4 J	10 U
Acenaphthylene	NE	10 U	10 U	3 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	2 J	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	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	3 J	3 J	3 J	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	4 J	1 J	16	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	10 U	3 J	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U	130	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	7	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	4 J	4 J	3 J	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	ND	44	54	21	92	ND	ND	137	ND
Carcinogenic PAHs (ug/L)											
Benz[a]anthracene	0.002*	10 U	10 U	10 U	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	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	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	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	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	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	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)											
Total PAHs	NE	ND	ND	44	54	21	92	ND	ND	137	ND

Table 3
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of BTEX, MTBE, and PAH Results Q2 2008

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

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

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Bolding indicates a detected result value

Shading and bolding indicates that the detected result value exceeds the NYS AWQS objective it was compared to

Total BTEX and Total PAHs are calculated using detects only

J - estimated value

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

Table 4
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic Total BTEX Results

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/L)																											
		Sampling Date																											
		1995			2000			2002		2004			2005				2006				2007				2008		Min	Max	Mean
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June				
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	337	141	0	2,720	238					
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	8,865	7,415	98	15,181	9,512					
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	2,842	2,241	560	4,965	2,392					
MW-04	1.25 - 6.81	864	35	--	10	208	--	0	0	225	299	268	193	181	101	0	51	89	66	--	--	--	15	0	864	153			
MW-05	2.46 - 7.46	9,100	170	5	102	11,600	2,938	2,697	18,900	--	--	--	--	--	--	--	--	--	--	--	--	--	5	18,900	5,689				
MW-06	2.47 - 7.47	334	47	30	91	49	--	33	55	39	36	74	37	11	54	0	37	31	0	1	33	0	334	52					
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	1,595	306	306	5,183	1,845					
SHMW-01I	35.0 - 45.0	--	--	5	0	0	--	--	--	0	--	--	--	--	--	0	0	--	--	--	--	--	0	5	1				
SHMW-02I	35.0 - 45.0	--	--	26	0	1,179	16	20	20	19	25	0	0	0	0	--	11	12	15	18	41	0	1,179	82					
SHMW-02D	65.0 - 75.0	--	--	5	4	0	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	0	5	2				
SHMW-03S	2.0 - 12.0	--	--	63	0	110	--	48	53	46	75	131	67	97	13	122	80	12	50	3	0	0	131	57					
SHMW-03I	35.0 - 45.0	--	--	0	52	0	--	--	--	0	--	--	--	0	--	--	--	--	0	--	--	--	0	52	9				
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	7,567	8,059	3,154	25,860	12,639					
SHMW-04I	35.0 - 45.0	--	--	5	0	0	--	--	--	0	--	--	--	0	--	--	--	--	0	--	--	--	0	5	1				
SHMW-05S	2.0 - 12.0	--	--	37	69	83	--	107	282	2,960	115	202	45	43	26	35	458	676	98	77	83	26	2,960	317					
SHMW-05I	35.0 - 45.0	--	--	0	0	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	1,296	1,343	1,296	4,289	2,271					
SHMW-06I	35.0 - 45.0	--	--	0	0	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	--	1,075	185	3,340	1,479					
SHMW-07I	35.0 - 45.0	--	--	0	0	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	0	12	8	9	0	19	6				
SHMW-08I	35.0 - 45.0	--	--	0	0	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	1,039	1,298	178	1,298	812					
SHMW-09I	35.0 - 45.0	--	--	0	0	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	0	0	0	1	0	1	0				
SHMW-10I	35.5 - 45.5	--	--	0	0	0	--	--	--	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	0	0	0	0	0	0	0	0	0	
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	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	166	482	0	930	286					
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	0	--	--	--	0	--	--	--	--	23	--	--	0	23	5					
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	0	0	0	0	0	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	0	0				

NOTES:

-- not analyzed or not applicable

ug/L - micrograms per liter

BTEX - benzene, toluene, ethylbenzene, and xylene

Table 5
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of Historic Total PAH Results

Well No.	Screen Interval (feet)	Total PAH Concentrations (ug/L)																								
		Sampling Date																								
		1995	2000	2002	2004		2005				2006				2007				2008		Min	Max	Mean			
Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June	145	2	0	4,906	397		
MW-01	1.50 - 7.32	4,906	1,548	257	402	30	24	0	61	200	0	0	97	95	0	54	87	39						0	25,167	6,387
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	400	3,455	0	25,167	6,387		
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	508	96	92	7,034	2,418		
MW-04	1.25 - 6.81	3,612	75	--	0	90	--	0	22	1,098	103	11	37	66	31	0	66	238	6	--	0	0	3,612	321		
MW-05	2.46 - 7.46	16,386	779	101	1,160	431,600	2,049	918	188,200	--	--	--	--	--	--	--	--	--	--	--	101	431,600	80,149			
MW-06	2.47 - 7.47	5,416	894	653	258	33	--	90	79	204	0	22	0	0	645	35	46	17	0	0	0	0	5,416	442		
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	0	0	0	0	4,147	1,474		
SHMW-01I	35.0 - 45.0	--	--	32	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	32	6			
SHMW-02I	35.0 - 45.0	--	--	266	0	580,200	41	185	124	271	30	74	32	91	89	0	10	175	32	8	42	0	580,200	32,315		
SHMW-02D	65.0 - 75.0	--	--	308	76	89	--	--	--	0	--	--	--	0	--	--	--	--	15	--	--	0	308	81		
SHMW-03S	2.0 - 12.0	--	--	422	0	295	--	79	130	117	339	0	0	147	118	430	191	12	154	0	0	0	430	143		
SHMW-03I	35.0 - 45.0	--	--	2	320	0	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	320	54			
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	0	1,328	0	6,669	4,110		
SHMW-04I	35.0 - 45.0	--	--	18	0	0	--	--	--	0	--	--	--	0	--	--	--	--	0	--	--	0	18	3		
SHMW-05S	2.0 - 12.0	--	--	13	170	94	--	82	91	26	53	17	11	11	110	0	0	14	8	2	0	0	170	41		
SHMW-05I	35.0 - 45.0	--	--	0	17	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	0	17	3			
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	0	44	0	4,694	2,493		
SHMW-06I	35.0 - 45.0	--	--	2	0	0	--	--	--	0	--	--	--	0	--	--	--	--	0	--	--	0	2	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	--	54	0	7,211	3,345		
SHMW-07I	35.0 - 45.0	--	--	0	0	0	--	--	--	0	--	--	--	2,212	--	--	--	0	--	--	0	2,212	369			
SHMW-08S	1.0 - 7.0	--	--	110	71	94	--	25	70	33	83	112	57	77	99	13	90	10	13	14	21	10	112	58		
SHMW-08I	35.0 - 45.0	--	--	13	0	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	0	13	2			
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	0	92	0	2,737	1,266		
SHMW-09I	35.0 - 45.0	--	--	3	0	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	0	3	1			
SHMW-10S	5.0 - 15.0	--	--	--	22	6	--	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	22	2		
SHMW-10I	35.5 - 45.5	--	--	--	0	0	--	--	--	0	--	--	--	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	0	0	0	173	11		
SHMW-11I	35.0 - 45.0	--	--	--	0	0	--	--	--	0	--	--	--	0	--	--	--	4	--	--	0	4	1			
SHMW-12S	1.5 - 6.5	--	--	--	60	218	--	71	600	230	260	110	470	310	280	15	560	0	155	9	137	0	600	218		
SHMW-12I	35.0 - 45.0	--	--	--	0	0	--	--	--	0	--	--	--	0	--	--	--	20	--	--	0	20	4			
SHMW-13S	1.5 - 6.5	--	--	--	0	0	--	0	0	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	0	0			

NOTES:

-- not analyzed or not applicable

ug/L - micrograms per liter

PAHs - polycyclic aromatic hydrocarbons

Q2 2008 GROUNDWATER MONITORING REPORT
SAG HARBOR FORMER MGP
NATIONAL GRID
AUGUST 2008

Figures



SOURCE: MAP CREATED WITH TOPO!™ ©2000
WILDFLOWER PRODUCTIONS (www.topo.com)

0 2000 4000
SCALE, FEET

SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK



SITE LOCATION MAP

nationalgrid

Project 061140-18-2704

August 2008

Figure 1

