



Geotechnical
Environmental and
Water Resources
Engineering

**Quarterly Groundwater Monitoring Report
Third Quarter (Q3) 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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1. Sag Harbor Site and Adjacent Off-Site Areas

Q3 2008 Groundwater Monitoring Event Summary

Event Date: September 8 through 12, 2008

Site Phase: Quarterly groundwater monitoring

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

Monitoring Program:

Number of Wells: 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.

Hydrological Data: 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:

- Depth to the water table in shallow wells at high tide ranged from **0.05** (SHMW-12S) to **5.18** (SHMW-11S) feet below the well measuring point.
- Water table elevations in shallow wells at high tide ranged from **0.56** (SHMW-11S) to **4.31** (SHMW-08S) feet above mean sea level (MSL).
- Depth to the water table in shallow wells at low tide ranged from **0.07** (SHMW-12S) to **5.61** (SHMW-11S) feet below the well measuring point.
- Water table elevations in shallow wells at low tide ranged from **0.13** (SHMW-11S) to **4.32** (SHMW-08S) feet above MSL.
- The calculated shallow hydraulic gradient for high tide was **0.0071** feet/foot. The calculated shallow hydraulic gradient for low tide was **0.0079** feet/foot.

- Depth to groundwater in intermediate wells at high tide ranged from **0.26** (SHMW-12I) to **4.94** (SHMW-11I) feet below the well measuring point.
- Groundwater elevations in intermediate wells at high tide ranged from **0.85** (SHMW-11I) to **3.21** (SHMW-02I) feet above MSL.
- Depth to groundwater in intermediate wells at low tide ranged from **0.45** (SHMW-12I) to **5.80** (SHMW-11I) feet below the well measuring point.
- Groundwater elevations in intermediate wells at low tide ranged from **-0.01** (SHMW-11I) to **2.84** (SHMW-12I) feet above MSL.
- The calculated intermediate hydraulic gradient for high tide was **0.0042** feet/foot. The calculated intermediate hydraulic gradient for low tide was **0.0049** 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 Q3 2008, 18 wells were monitored for NAPL.

As shown in **Table 2**, in Q3 2008, measurable thicknesses of dense non-aqueous phase liquid (DNAPL) were found in SHMW-02I and SHMW-04S at approximate thicknesses of 4 feet and 0.75 feet, respectively. Trace amounts of DNAPL were observed at MW-01, MW-02, MW-03, MW-04, SHMW-06S and SHMW-07S.

*Chemical
Data:*

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 September 8 to September 12, 2008.

Chemical data for Q3 2008 (see **Table 3**) indicate:

- Total BTEX concentrations ranged from less than method detection limits in three of the wells sampled to **7,561** micrograms per liter (µg/L) in SHMW-04S.
- Total PAH concentrations ranged from less than method detection limits in four of the wells sampled to **5,848** µg/L in SHMW-06S.

**Data Trend
Analysis:**

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 Q3 2008 when compared to previous sampling events.

In Q3 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 12 of the 14 shallow wells that had detectable BTEX concentrations, the BTEX concentrations were lower than their respective means. In the two remaining wells, the BTEX concentrations were similar to, within the same order of magnitude, as their respective means.

Between Q2 2008 and Q3 2008, BTEX concentrations decreased in eight of the 14 shallow wells with detected BTEX concentrations that were sampled in both quarters. BTEX increases were observed in six of the shallow wells, but these increases were consistent with typical historic fluctuations. In general, BTEX increases were insignificant, within the same order of magnitude in concentrations between Q2 2008 and Q3 2008.

In Q2 2008, one intermediate well, SHMW-02I, was sampled. The BTEX concentration in SHMW-02I decreased between Q2 2008 (41 µg/l) and Q3 2008 (29 µg/l).

In Q3 2008, PAH concentrations were below the laboratory detection limits in four of 17 shallow wells sampled. In eleven of the thirteen shallow wells that had detectable PAH concentrations, the PAH concentrations were lower than their respective means. In one of the remaining wells, the PAH concentration was similar to, within the same order of magnitude, as its respective mean; however, the concentration detected in well SHMW-06S represented the highest

concentration detected in the well since it was installed in 2000.

Between Q2 2008 and Q3 2008, PAH concentrations remained below laboratory detection limits in four shallow wells. PAHs increased in all of the 13 remaining shallow wells sampled; however, excluding SHMW-06S, these increases were generally not significant being consistent with typical historic fluctuations, and were lower than their respective means.

In Q3 2008, one intermediate well, SHMW-02I, was sampled. The PAH concentration increased from 42 µg/l in Q2 2008 to 209 µg/l in Q3 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 increased between Q2 2008 and Q3 2008 in 12 of the 16 wells. Increases in these wells ranged from 0.12 to 0.55 feet. The average increase over these wells was 0.36 feet. The remaining four wells had decreases of between 0.02 and 0.19 feet.

Water table elevations at shallow wells during low tide conditions have increased between Q2 2008 and Q3 2008 in 13 of 16 wells. Increases ranged from 0.07 to 0.58 feet. The average increase over these wells was 0.35 feet. For the remaining three wells, the decreases ranged from 0.10 to 0.30 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 Q3 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, SHMW-06S and SHMW-07S. Since MW-05 was destroyed, it could not be checked for NAPL.

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

Tables

Table 1
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Water Level Measurements and Calculated Water Elevations - Q3 2008

Well ID	Top of Casing Elevation (ft)	Tide	Time	9/11/2008		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
MW-01	5.09	High	830	1.22	3.87	
		Low	1437	1.19	3.90	
MW-02	4.48	High	825	0.41	4.07	
		Low	1429	0.44	4.04	
MW-03	4.59	High	832	1.57	3.02	
		Low	1435	1.57	3.02	
MW-04	4.13	High	827	0.28	3.85	
		Low	1431	0.26	3.87	
MW-05	5.07	High	--	--	--	Well destroyed.
		Low	--	--	--	
MW-06	5.38	High	833	1.37	4.01	
		Low	1440	1.39	3.99	
SHMW-01S	4.52	High	828	1.36	3.16	
		Low	1433	1.32	3.20	
SHMW-01I	4.47	High	829	1.49	2.98	Casing cracked; measuring point in doubt.
		Low	1434	2.11	2.36	
SHMW-02I	5.22	High	830	2.01	3.21	
		Low	1437	2.51	2.71	
SHMW-02D	5.19	High	831	1.69	3.50	
		Low	1438	2.28	2.91	
SHMW-03S	5.43	High	807	3.17	2.26	
		Low	1359	3.29	2.14	
SHMW-03I	5.43	High	807	2.51	2.92	
		Low	1359	3.07	2.36	
SHMW-04S	5.71	High	805	3.49	2.22	
		Low	1356	3.25	2.46	
SHMW-04I	5.71	High	805	2.65	3.06	
		Low	1357	3.53	2.18	
SHMW-05S	6.23	High	803	3.59	2.64	
		Low	745	3.60	2.63	
SHMW-05I	6.14	High	803	3.31	2.83	
		Low	1355	3.62	2.52	
SHMW-06S	4.44	High	818	0.91	3.53	
		Low	1419	0.85	3.59	
SHMW-06I	4.43	High	819	1.50	2.93	
		Low	1420	1.91	2.52	
SHMW-07S	5.05	High	--	--	--	Car parked over well during high and low tides and could not obtain water level.
		Low	--	--	--	
SHMW-07I	5.00	High	--	--	--	Car parked over well during high and low tides and could not obtain water level.
		Low	--	--	--	
SHMW-08S	5.26	High	823	0.95	4.31	
		Low	1426	0.94	4.32	
SHMW-08I	5.08	High	824	1.99	3.09	
		Low	1428	2.48	2.60	
SHMW-09S	4.36	High	813	1.45	2.91	
		Low	1410	1.39	2.97	
SHMW-09I	4.41	High	814	1.58	2.83	
		Low	1411	1.85	2.56	
SHMW-10S	5.91	High	809	4.32	1.59	
		Low	1403	4.80	1.11	
SHMW-10I	5.89	High	804	3.75	2.14	
		Low	1404	4.85	1.04	
SHMW-11S	5.74	High	811	5.18	0.56	
		Low	1407	5.61	0.13	
SHMW-11I	5.79	High	811	4.94	0.85	
		Low	1407	5.80	-0.01	
SHMW-12S	3.42	High	815	0.05	3.37	
		Low	1415	0.07	3.35	
SHMW-12I	3.29	High	816	0.26	3.03	
		Low	1416	0.45	2.84	
SHMW-13S	4.68	High	821	0.94	3.74	Measuring point appears altered.
		Low	1423	0.95	3.73	
SHMW-13I	4.70	High	822	1.54	3.16	
		Low	1424	1.97	2.73	

-- 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	September/Q3 2005 Observations
MW-01	None Observed	Odor	None Observed	Not Checked	NR	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	Approx. 0.13' 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	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	Trace DNAPL at bottom of tape
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	Approx. 0.75' of DNAPL, approx. 0.12' of LNAPL
MW-06	None Observed	Slight naphthalene- like odor	NR	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	NR
SHMW-01I	None Observed	None Observed	NR	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	Approx. 0.4' of DNAPL
SHMW-02D	None Observed	None Observed	NR	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	September/Q3 2005 Observations
SHMW-03S	None Observed	Odor	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-03I	None Observed	None Observed	NR	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	Approx. 0.26' of DNAPL
SHMW-04I	None Observed	None Observed	NR	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	None Observed
SHMW-05I	None Observed	None Observed	NR	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	Trace DNAPL at bottom of tape
SHMW-06I	None Observed	None Observed	NR	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	NR
SHMW-07I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-08S	None Observed	None Observed	NR	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	September/Q3 2005 Observations
SHMW-08I	None Observed	None Observed	NR	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	NR
SHMW-09I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11I	None Observed	None Observed	NR	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	NR
SHMW-12I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13S	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13I	None Observed	None Observed	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

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

Well ID	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	September/Q3 2008 Observations
MW-01	NR	NR	NR	NR	NR	NR	NR	NR	None Observed	None Observed	Trace DNAPL	Trace DNAPL (at bottom of tubing)
MW-02	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	Trace DNAPL
MW-03	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	Trace DNAPL (0.05' at bottom of tubing)
MW-04	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	Trace DNAPL (at bottom of tubing)
MW-05	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	Well Destroyed
MW-06	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-01S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-01I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-02I	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	Approx. 4' DNAPL
SHMW-02D	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR

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

Well ID	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	September/Q3 2008 Observations
SHMW-03S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-03I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-04S	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	Approx. 0.75' DNAPL
SHMW-04I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-05S	None Observed	No DNAPL observed	None Observed	None Observed	None Observed	None Observed	None Observed	NR	None Observed	None Observed	None Observed	None Observed
SHMW-05I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-06S	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)	Trace DNAPL (coating on tubes)	Trace DNAPL (coating on tubes)	Trace	Trace DNAPL (on tubing)	Trace DNAPL	Trace DNAPL (on tubing)
SHMW-06I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-07S	NR	NR	NR	NR	NR	None Observed	NR	NR	Trace	NR	NR	Trace DNAPL (on side of tubing approx 1' off bottom)
SHMW-07I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-08S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed

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Well ID	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	September/Q3 2008 Observations
SHMW-08I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-09S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-09I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-10S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-10I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-11S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-11I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-12S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-12I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-13S	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-13I	NR	NR	NR	NR	NR	None Observed	NR	NR	None Observed	NR	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 - Q3 2008

Sample ID: Screened Interval: Sample Date:		MW-01 1.5-7.25 ft 9/12/2008	MW-02 0.5-7.25 ft 9/8/2008	MW-03 2-10 ft 9/9/2008	MW-04 1.25-6.75 ft 9/9/2008	MW-06 2.5-7.5 ft 9/10/2008	SHMW-01S 1-6 ft 9/9/2008	SHMW-02I 35-45 ft 9/12/2008	SHMW-03S 2-12 ft 9/10/2008	SHMW-04S 2-12 ft 9/9/2008
BTEX (ug/L)										
Benzene	1	190	72	1400	40	10 U	140	10 U	10 U	5000
Toluene	5	5 J	8 J	45 J	2 J	10 U	4 J	10 U	10 U	61
Ethylbenzene	5	7 J	1300	750	17	3 J	49	2 J	3 J	1300
Xylene, total	5	6 J	860	680	20	4 J	50	27	2 J	1200
Total BTEX	NE	208	2240	2875	79	7	243	29	5	7561
Other VOCs (ug/L)										
Methyl tert-butyl ether	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	2 J	10 U	10 U
Non-carcinogenic PAHs (ug/L)										
Acenaphthene	20*	33	190 J	310	14	10	10 U	5 J	6	120
Acenaphthylene	NE	2 J	2 J	7.0 J	1 J	10 U	10 U	32	10 U	6
Anthracene	50*	10 U	18	20	10 U	10 U	10 U	3 J	10 U	11
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	10	14	2 J	10 U	10 U	2 J	10 U	5
Fluorene	50*	10 U	52	72	2 J	10 U	10 U	8	1 J	43
Methylnaphthalene,2-	NE	10 U	320 J	280	10 U	10 U	10 U	33	10 U	210
Naphthalene	10*	10 U	2800	270	10 U	10 U	10 U	110	9	1400
Phenanthrene	50*	10 U	85 J	110	10 U	10 U	10 U	14	1 J	66
Pyrene	50*	10 U	11	18	3 J	10 U	10 U	2 J	10 U	7
Total Noncarcinogenic PAHs	NE	35	3488	1101	22	10	ND	209	17	1868
Carcinogenic PAHs (ug/L)										
Benz[a]anthracene	0.002*	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	2 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	3 J	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	8	ND	ND	ND	ND	ND	ND
Total PAHs	NE	35	3488	1109	22	10	ND	209	17	1868

Table 3
Sag Harbor Former MGP Site
Groundwater Monitoring Program
Summary of BTEX, MTBE, and PAH Results - Q3 2008

Sample ID: Screened Interval: Sample Date:	NYS AWQS	SHMW-05S 2-12 ft 9/10/2008	Duplicate of SHMW-05S 2-12 ft 9/10/2008	SHMW-06S 2-6 ft 9/8/2008	SHMW-07S 1-11 ft 9/8/2008	SHMW-08S 1-7 ft 9/8/2008	SHMW-09S 2-12 ft 9/10/2008	SHMW-10S 5-15 ft 9/10/2008	SHMW-11S 3.5-13.5 ft 9/10/2008	SHMW-12S 1.5-6.5 ft 9/9/2008	SHMW-13S 1.5-6.5 ft 9/8/2008
BTEX (ug/L)											
Benzene	1	24	24	580	510	5 J	270	10 U	10 U	75	10 U
Toluene	5	10 U	10 U	8 J	14	10 U	1 J	10 U	10 U	1 J	10 U
Ethylbenzene	5	22	22	540	570	2 J	290	10 U	10 U	8 J	10 U
Xylene, total	5	18	18	170	280	3 J	110	10 U	10 U	27	10 U
Total BTEX	NE	64	64	1298	1374	10	671	ND	ND	111	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*	13	15	450 J	170 J	15	120	10 U	10 U	5 J	10 U
Acenaphthylene	NE	10 U	10 U	19	3 J	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	2 J	2 J	130 J	12	3 J	4 J	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	12	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	2 J	2 J	180 J	7	4 J	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	5	6	140 J	43	10	28	10 U	10 U	10 U	10 U
Methylnaphthalene,2-	NE	10 U	10 U	450 J	260 J	10 U	100	10 U	10 U	4 J	10 U
Naphthalene	10*	10 U	10 U	3500	2700	10 UJ	210	10 U	10 U	250	10 U
Phenanthrene	50*	3 J	4 J	480 J	50	20	23	10 U	10 U	10 U	10 U
Pyrene	50*	2 J	2 J	230 J	7	3 J	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	27	31	5591	3252	55	485	ND	ND	259	ND
Carcinogenic PAHs (ug/L)											
Benzo[a]anthracene	0.002*	10 U	10 U	81 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	49	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	37	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	16	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	59	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	4 J	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	11	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	257	ND	ND	ND	ND	ND	ND	ND
Total PAHs	NE	27	31	5848	3252	55	485	ND	ND	259	ND

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

Total BTEX and Total PAHs are calculated using detects only

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

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

NE - not established

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 boliding indicates that the detected result value exceeds the NYS AWQS objective it was compared to

Validation Qualifiers:

J - estimated value

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

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

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	Sep				
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	208	0	2,720	236	
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	2,240	98	15,181	9,129	
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	2,875	560	4,965	2,416	
MW-04	1.25 - 6.81	864	35	--	10	208	--	0	0	225	299	268	193	181	101	0	51	89	66	--	15	79	0	864	149	
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	7	0	334	50	
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	243	243	5,183	1,756	
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	29	0	1,179	80	
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	5	0	131	54	
SHMW-03I	35.0 - 45.0	--	--	0	52	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	7,561	3,154	25,860	12,357	
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	64	26	2,960	303	
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	1,298	1,296	4,289	2,214	
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	1,374	185	3,340	1,472	
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	12	8	9	10	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	671	178	1,298	804	
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	1	0	0	1	0	
SHMW-10I	35.5 - 45.5	--	--	--	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	
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	111	0	930	276	
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	
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	Sep			
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	145	2	35	0	4,906	380
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	3,488	0	25,167	6,235
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	1,109	92	7,034	2,352
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	22	0	3,612	304
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	10	0	5,416	420
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	1,392
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	209	0	580,200	30,625
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	17	0	430	136
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	1,868	0	6,669	3,986
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	31	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	5,848	0	5,848	2,690
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	3,252	0	7,211	3,339
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	55	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	485	0	2,737	1,220
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	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	0	173	10
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	259	0	600	220
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	0	0
SHMW-13I	35.0 - 45.0	--	--	--	0	0	--	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0

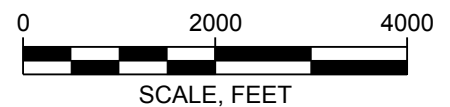
NOTES:

-- not analyzed or not applicable
 ug/L - micrograms per liter
 PAHs - polycyclic aromatic hydrocarbons

Figures



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**SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK**

nationalgrid



Project 061140-18-2704

SITE LOCATION MAP

November 2008

Figure 1

