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Geotechnical
Environmental and
Water Resources
Engineering

Quarterly Groundwater Monitoring Report
First Quarter (Q1) 2012

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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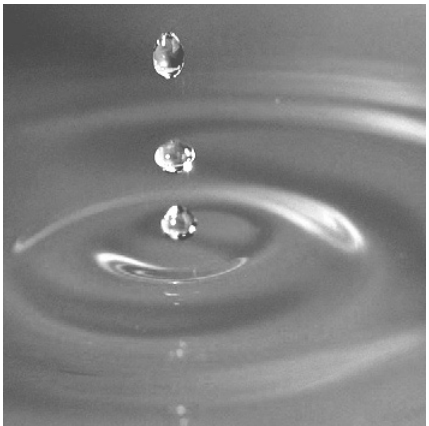

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1. Sag Harbor Site and Adjacent Offsite Areas

First Quarter (Q1) 2012 Groundwater Monitoring Event Summary

Event Date: March 19, 21 and 22, 2012

Site Phase: Quarterly groundwater monitoring

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

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 replacement post remediation monitoring well installation program in Q4 2010.

Monitoring wells SHMW-02IR and SHMW-04SR were installed as larger diameter, potential dense non-aqueous phase liquid (DNAPL) recovery wells. 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.

Access to monitoring wells SHMW-09S and SHMW-09I could not be obtained for the Q1 2012 groundwater monitoring event.

Hydrological Data

Groundwater levels were measured on March 19, 2012 at 22 of the 25 monitoring wells, during low and high tide. Monitoring well SHMW-02I 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 Q1 2012, are provided in the following table:

	High Tide			Low Tide		
	Range			Range		
Depth Zone	DTW[1]	WLE[2]	Gradient[3]	DTW[1]	WLE[2]	Gradient[3]
Shallow	0.33 – 4.30	0.92 – 3.34	0.0015	0.20 – 5.92	-0.60 – 3.29	0.0035
Intermediate	0.81 – 4.05	0.91 – 2.51	0.0007	0.31 – 6.46	-0.83 – 2.01	0.0044

[1]: Depth to water - Measured as feet below top of casing
[2]: Water level elevation - Calculated as feet above mean sea level
[3]: feet/foot

NAPL Thickness Data

Table 2 provides a summary of historical non-aqueous phase liquid (NAPL) data. In Q1 2012, all 23 of the accessible monitoring wells were monitored for NAPL as part of the groundwater monitoring program. There was no evidence of light non-aqueous phase liquid (LNAPL) or DNAPL in any of the monitoring wells during Q1 2012.

Chemical Data

In Q1 2012, a total of 11 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 March 21 and 22, 2012 and included all accessible wells on the quarterly sampling list.

Chemical data for Q1 2012 (**Table 3**) indicate:

- BTEX concentrations ranged from below method detection limits (ND) in 4 of the 11 wells sampled to 1,418 micrograms per liter (µg/L) in SHMW-07SR.
- Total PAH concentrations ranged from below ND in SHMW-10S to 927 µg/L in SHMW-07SR.
- MTBE concentrations were ND in all wells sampled, excluding 3 µg/L in SHMW-08S.

Data Trend Analysis

In general, BTEX and total PAH concentrations (see historical data in **Tables 4** and **5**) are decreasing in shallow groundwater on and adjacent to the site as indicated in the table below. However, BTEX concentrations in shallow wells have generally been slightly increasing over the past two sampling events. These increases are largely due to increases in one well, SHMW-07SR. Average total PAH concentrations have continued to decrease in shallow groundwater in recent sampling events. Overall, the concentrations observed during recent sampling events remain significantly below historical levels (see table below).

	Historical*		Q3 2011		Q4 2011		Q1 2012	
Shallow Zone	Max	Average	Max	Average	Max	Average	Max	Average
BTEX	25,860	1,213	607	128	700	155	1,418	180
Total PAHs	7,211**	732	885	267	955	237	927	195

Concentrations in µg/L
*: Including data from existing wells only.
**: Historical maximum for all depth zones is 580,200 µg/L (total PAH) in SHMW-02I.

Concentrations of BTEX were identified in 7 shallow monitoring wells in Q1 2012. The concentrations in monitoring wells SHMW-02S (1 µg/L), SHMW-05SR (25 µg/L) and SHMW-08S (5 µg/L) were relatively low (below 50 µg/L). The Q1 2012 detections in these wells remained similar to, or below their respective historical mean concentrations. The concentration in well SHMW-13S (12 µg/L) was the highest concentration recorded in the historical monitoring period, but also remained relatively low.

Elevated BTEX concentrations in the remaining shallow wells in Q1 2012 were limited to SHMW-04SR, SHMW-07SR and SHMW-12S. The concentrations in SHMW-04SR (391 µg/L) and SHMW-12S (127 µg/L) decreased compared to Q4 2011, and remained well below the respective historical mean concentrations (particularly in SHMW-04SR). The concentration in SHMW-07SR (1,418 µg/L) has increased relative to recent sampling events, but remains below the historical mean concentration (1,552 µg/L).

For total PAH concentrations, 10 shallow wells had detections in Q1 2012, with six of the 10 detections being near detection levels (SHMW-01SR, SHMW-02S, SHMW-03S, SHMW-10S, SHMW-11S, and SHMW-13S). The maximum detection in these wells in Q1 2012 was 7 µg/L in SHMW-01SR.

The total PAH concentrations in Q1 2012 in SHMW-04SR (581 µg/L) and SHMW-07SR (927 µg/L) and SHMW-12S (154 µg/L) decreased from Q4 2011 levels and remained below their respective historical mean concentrations (particularly SHMW-04SR and SHMW-07SR). The Q1 2012 total PAH concentrations in SHMW-08S (152 µg/L) increased relative to Q4 2011 and was above its historical mean concentration, but remained within the historical concentration range. The Q1 2012 total PAH concentration in SHMW-05S (309 µg/L) also increased relative to Q4 2011 and was the highest concentration recorded in the historical monitoring period continuing a generally increasing trend.

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

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/04SR). Historically, trace amounts of NAPL have been found in two onsite shallow wells, MW-03 and MW-04, and two offsite shallow wells, SHMW-06S and SHMW-02IR, and intermittently in SHMW-07S and SHMW-07SR. Excluding SHMW-07S and SHMW-07SR, all of the wells identified above in which NAPL has been historically detected were either destroyed or

abandoned prior to the start of remedial activities. Monitoring well SHMW-07S was damaged presumably during remedial activities and subsequently replaced.

Trace amounts of LNAPL and DNAPL have historically been found in monitoring wells SHMW-04SR and SHMW-07SR. However, there was no evidence of NAPL in these monitoring wells or any of the remaining monitoring wells during Q1 2012.

Future Plans

Continue quarterly groundwater and NAPL monitoring at site monitoring wells.

Tables

Table 1
Water Level Measurements and Calculated Water Elevations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Top of Casing Elevation (ft)*	Tide	Time	3/19/2012		Notes
				Depth to Water (ft)	Groundwater Elevation (ft)	
MW-01	5.09	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-02	4.48	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-03	4.59	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-04	4.13	High	--	--	--	Well abandoned
		Low	--	--	--	
MW-05	5.07	High	--	--	--	Well destroyed
		Low	--	--	--	
MW-06	5.38	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-01SR	3.71	High	912	2.07	1.64	Well replaced in Q4 2010
		Low	1459	2.26	1.45	
SHMW-01IR	3.81	High	915	2.05	1.76	Well replaced in Q4 2010
		Low	1500	2.78	1.03	
SHMW-01D	3.67	High	915	1.97	1.7	Well installed in Q4 2010
		Low	1500	2.61	1.06	
SHMW-02S	3.95	High	910	2.21	1.74	Well installed in Q4 2010
		Low	1355	2.40	1.55	
SHMW-02IR	3.92	High	NM	NM	NM	Survey point altered
		Low	NM	NM	NM	
SHMW-02DR	3.66	High	908	1.51	2.15	Well replaced in Q4 2010
		Low	1458	3.00	0.66	
SHMW-03S	3.83	High	858	2.37	1.46	
		Low	1510	3.71	0.12	
SHMW-03I	3.85	High	855	1.98	1.87	
		Low	1510	3.60	0.25	
SHMW-04SR	3.90	High	900	2.50	1.40	Well replaced in Q4 2010
		Low	1505	3.50	0.40	
SHMW-04I	5.71	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-05SR	5.03	High	845	3.96	1.07	Well replaced in Q4 2010
		Low	1507	3.96	1.07	
SHMW-05IR	4.96	High	855	4.05	0.91	Well replaced in Q4 2010
		Low	1507	4.23	0.73	
SHMW-06S	4.44	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-06I	4.43	High	--	--	--	Well abandoned
		Low	--	--	--	
SHMW-07SR	3.48	High	845	1.41	2.07	
		Low	1520	0.49	2.99	
SHMW-07IR	3.38	High	843	1.01	2.37	
		Low	1520	2.11	1.27	
SHMW-08S	3.69	High	852	0.35	3.34	
		Low	1525	0.40	3.29	
SHMW-08I	3.79	High	850	1.30	2.49	
		Low	1525	2.19	1.60	
SHMW-09S	3.06	High	--	--	--	Access not provided
		Low	--	--	--	
SHMW-09I	2.82	High	--	--	--	Access not provided
		Low	--	--	--	
SHMW-10S	4.75	High	835	3.83	0.92	
		Low	1511	4.41	0.34	
SHMW-10I	4.75	High	835	3.00	1.75	
		Low	1511	5.56	-0.81	
SHMW-11S	5.32	High	838	4.30	1.02	
		Low	1513	5.92	-0.60	
SHMW-11I	5.63	High	835	3.12	2.51	
		Low	1514	6.46	-0.83	
SHMW-12S	1.98	High	905	0.33	1.65	
		Low	1515	0.20	1.78	
SHMW-12I	1.99	High	905	0.81	1.18	
		Low	1515	0.31	1.68	
SHMW-13S	3.36	High	847	1.51	1.85	
		Low	1522	0.80	2.56	
SHMW-13I	3.50	High	848	1.29	2.21	
		Low	1523	1.49	2.01	

Notes:
* Elevations were re-surveyed in November 2010.
-- = Not Available
NM = Not Measured

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

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
MW-01	None Observed	Odor	None Observed	Not Checked	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
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
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)
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
MW-06	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR
SHMW-01S/01SR	None Observed	Slight naphthalene-like odor	NR	NR	NR	NR	NR	NR
SHMW-01I/01IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	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
SHMW-02D/02DR	None Observed	None Observed	NR	NR	NR	NR	NR	NR
SHMW-03S	None Observed	Odor	NR	NR	NR	NR	NR	NR
SHMW-03I	None Observed	None Observed	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
SHMW-04I	None Observed	None Observed	NR	NR	NR	NR	NR	NR
SHMW-05S/05SR	None Observed	Blebs of DNAPL in purge water, odor	NR	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	None Observed	None Observed	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

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

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Mar 2005 Observations	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
MW-01	NR	NR	NR	NR	NR	NR	NR	NR
MW-02	Approx. 0.15' of DNAPL	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
MW-03	Trace DNAPL at bottom of tape	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)
MW-04	None Observed	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)
MW-05	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	DNAPL blebs in purge H2O, 0.5' DNAPL coating on tubes	Approx. 0.15' of DNAPL, approx. 0.1' of LNAPL	Approx. 0.22' DNAPL; 0.05' of LNAPL	Approx. 0.55' DNAPL; 0.06' of LNAPL
MW-06	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01S/01SR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01I/01IR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	Approx. 0.45' of DNAPL	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
SHMW-02D/02DR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-03S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-03I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-04S/04SR	Approx. 0.25' of DNAPL	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
SHMW-04I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-05S/05SR	None Observed	None Observed	None Observed	None Observed	None Observed	No DNAPL observed	None Observed	None Observed
SHMW-05I/05IR	NR	NR	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Mar 2005 Observations	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
SHMW-06S	NR	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
SHMW-06I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-07S/07SR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-07I/07IR	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-08S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-08I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-09S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-09I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-10I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-11I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-12S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-12I	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13S	NR	NR	NR	NR	NR	NR	NR	NR
SHMW-13I	NR	NR	NR	NR	NR	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Dec/Q4 2006 Observations	Mar/Q1 2007 Observations	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Obsevations
MW-01	NR	NR	NR	NR	None Observed	None Observed	Trace DNAPL	Trace DNAPL (at bottom of tubing)
MW-02	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	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 (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	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	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-01S/01SR	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-01I/01IR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	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/02DR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-03S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-03I	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-04S/04SR	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	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-05S/05SR	None Observed	None Observed	None Observed	NR	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	NR	None Observed	NR	NR	None Observed	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Dec/Q4 2006 Observations	Mar/Q1 2007 Observations	Jun/Q2 2007 Observations	Sep/Q3 2007 Observations	Dec/Q4 2007 Observations	Mar/Q1 2008 Observations	Jun/Q2 2008 Observations	Sep/Q3 2008 Obsevations
SHMW-06S	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	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-07S/07SR	NR	None Observed	NR	NR	Trace	NR	NR	Trace DNAPL (on side of tubing approx 1' off bottom)
SHMW-07I/07IR	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-08S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-08I	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-09S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-09I	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-10S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-10I	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-11S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-11I	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-12S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-12I	NR	None Observed	NR	NR	None Observed	NR	NR	NR
SHMW-13S	NR	None Observed	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-13I	NR	None Observed	NR	NR	None Observed	NR	NR	NR

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Dec/Q4 2008 Obsevations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations
MW-01	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01I/01IR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01D	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02S	NI	NI	NI	NI	NI	NI	NI	NI
SHMW-02I/02IR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-02D/02DR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-03S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	None Observed	NR	None Observed	NR	None Observed	None Observed	None Observed	None Observed
SHMW-04S/04SR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-04I	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05S/05SR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05I/05IR	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Dec/Q4 2008 Obsevations	Mar/Q1 2009 Observations	Jun/Q2 2009 Observations	Sep/Q3 2009 Observations	Dec/Q4 2009 Observations	Mar/Q1 2010 Observations	Jun/Q2 2010 Observations	Sep/Q3 2010 Observations
SHMW-06S	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-06I	Well Inaccessible or Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-07S/07SR	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	Trace DNAPL (on side of tubing)	None Observed	None Observed	Well Inaccessible	Well Inaccessible
SHMW-07I/07IR	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	NR	None Observed (approximately 10 feet of sand present in well)	None Observed (approximately 10 feet of sand present in well)	Well Inaccessible	Well Inaccessible
SHMW-08S	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08I	Well Inaccessible or Abandoned	Well Inaccessible	None Observed	NR	None Observed	None Observed	None Observed	None Observed
SHMW-09S	None Observed	Well Inaccessible	None Observed	None Observed	None Observed	Well Inaccessible	None Observed	None Observed
SHMW-09I	NR	NR	NR	NR	None Observed	None Observed	None Observed	None Observed
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	NR	NR	NR	NR	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
SHMW-11I	NR	NR	NR	NR	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
SHMW-12I	NR	NR	NR	NR	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
SHMW-13I	NR	NR	NR	NR	None Observed	None Observed	None Observed	None Observed

Table 2
Summary of Historical NAPL Observations
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well ID	Dec/Q4 2010 Observations	Mar/Q1 2011 Observations	Jun/Q2 2011 Observations	Sep/Q3 2011 Observations	Dec/Q4 2011 Observations	Mar/Q1 2012 Observations
MW-01	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-02	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-03	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-04	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
MW-05	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed	Well Destroyed
MW-06	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-01S/01SR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01I/01IR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-01D	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-02I/02IR	None Observed	Well Damaged	Well Damaged	Well Damaged	None Observed	None Observed
SHMW-02D/02DR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-03I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-04S/04SR	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	None Observed	None Observed	None Observed
SHMW-04I	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned	Well Abandoned
SHMW-05S/05SR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-05I/05IR	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 - Q1 2012

Well ID	Dec/Q4 2010 Observations	Mar/Q1 2011 Observations	Jun/Q2 2011 Observations	Sep/Q3 2011 Observations	Dec/Q4 2011 Observations	Mar/Q1 2012 Observations
SHMW-06S	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
SHMW-07S/07SR	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	Trace LNAPL - DNAPL observed on tubing	None Observed	None Observed	None Observed
SHMW-07I/07IR	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-08I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-09S	No access	No access	No access	No access	No access	No access
SHMW-09I	No access	No access	No access	No access	No access	No access
SHMW-10S	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed
SHMW-10I	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
SHMW-11I	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
SHMW-12I	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
SHMW-13I	None Observed	None Observed	None Observed	None Observed	None Observed	None Observed

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

Table 3
Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Analyte	Sample Name Sample Date NYS AWQS	SHMW-01SR 3/22/2012	SHMW-02S 3/22/2012	SHMW-03S 3/21/2012	SHMW-04SR 3/21/2012	SHMW-05SR 3/21/2012	SHMW-07SR 3/21/2012	SHMW-08S 3/21/2012	Duplicate of: SHMW-08S 3/21/2012	SHMW-10S 3/22/2012	SHMW-11S 3/21/2012	Duplicate of: SHMW-11S 3/21/2012	SHMW-12S 3/22/2012	SHMW-13S 3/21/2012
BTEX (ug/L)														
Benzene	1	1 U	**1**	1 U	**160**	**15**	**480 D**	**4**	**4**	1 U	1 U	1 U	**110**	**4**
Toluene	5	1 U	1 U	1 U	**6**	1 U	**18**	1 U	1 U	1 U	1 U	1 U	1 U	**2**
Ethylbenzene	5	1 U	1 U	1 U	**130**	**5**	**570 D**	1 U	1 U	1 U	1 U	1 U	**5**	**4**
Total Xylene	5	1 U	1 U	1 U	**95**	**5**	**350**	**1**	**1**	1 U	1 U	1 U	**12**	**2**
Total BTEX	NE	ND	**1**	ND	**391**	**25**	**1418**	**5**	**5**	ND	ND	ND	**127**	**12**
Other VOCs (ug/L)														
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	ND	**1**	ND	**391**	**25**	**1418**	**8**	**8**	ND	ND	ND	**127**	**12**
Non-carcinogenic PAHs (ug/L)														
Acenaphthene	20*	10 U	10 U	**3 J**	**89 DJ**	**38**	**39**	**24**	**22**	10 U	**2 J**	**2 J**	**3 J**	10 U
Acenaphthylene	NE	10 U	10 U	10 U	**2 J**	10 U	**2 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	**7 J**	10 U	**5 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	**2 J**	10 U	10 U	**5 J**	10 U	**4 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	**1 J**	**17**	**8 J**	**12**	**12**	**11**	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NE	10 U	10 U	10 U	**52**	**8 J**	**49**	**4 J**	**3 J**	10 UJ	10 U	10 U	**1 J**	10 U
Naphthalene	10*	10 U	**3 J**	**2 J**	**380 D**	**250 D**	**790 D**	**79**	**75**	10 U	**4 J**	**3 J**	**150**	**2 J**
Phenanthrene	50*	**2 J**	**1 J**	10 U	**21**	**5 J**	**22**	**23**	**22**	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	**2 J**	**1 J**	10 U	**7 J**	10 U	**4 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U
Carcinogenic PAHs (ug/L)														
Benz[a]anthracene	0.002*	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	**1 J**	10 U	10 U	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	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	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	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	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	10 U	10 U	10 U
Total PAHs	NE	**7**	**5**	**6**	**581**	**309**	**927**	**152**	**142**	ND	**6**	**5**	**154**	**2**

Table 3
Summary of BTEX, MTBE and PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

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, Total VOCs, 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 concentration
Gray shading indicates that the detected result value exceeds NYS AWQS

Data Qualifiers:

D - Results for dilution
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 BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)																	
		Sampling Date																	
		1995	2000		2002	2004		2005				2006				2007			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	2,720	10	68	9	4	0	0	12	67	0	21	47	310	190	160	240	150	270
MW-02	0.50 - 7.25	5,429	8,840	7,940	5,840	13,287	8,740	7,333	13,010	--	13,720	7,591	--	14,174	12,267	8,678	12,810	15,181	98
MW-03	2.17 - 10.17	1,222	668	1,553	1,363	2,573	--	2,050	2,867	560	2,622	4,880	1,971	4,965	2,398	1,680	2,930	3,225	2,831
MW-04	1.25 - 6.81	864	35	--	10	208	--	0	0	225	299	268	193	181	101	0	51	89	66
MW-05	2.46 - 7.46	9,100	170	5	102	11,600	2,938	2,697	18,900	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	334	47	30	91	49	--	33	55	39	36	74	37	11	54	0	37	31	0
SHMW-01S/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	--	--	--
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 BTEX Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well No.	Screen Interval (feet)	BTEX Concentrations (µg/L)																			
		Sampling Date																	Min	Max	Mean
		2008				2009				2010				2011				2012			
		March	June	Sep	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March			
MW-01	1.50 - 7.32	337	141	208	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,720	236
MW-02	0.50 - 7.25	8,865	7,415	2,240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	98	15,181	9,129
MW-03	2.17 - 10.17	2,842	2,241	2,875	--	--	--	--	--	--	--	--	--	--	--	--	--	--	560	4,965	2,416
MW-04	1.25 - 6.81	--	15	79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	864	149
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	18,900	5,689
MW-06	2.47 - 7.47	1	33	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	334	50
SHMW-01S/01SR	1.0 - 6.0	1,595	306	243	--	--	--	--	--	--	--	--	0	1	0	0	3	0	0	5,183	1,317
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	3	--	0	5	1
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	3	--	0	3	2
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	3	0	3	0	5	1	0	5	2
SHMW-02I/02IR	35.0 - 45.0	18	41	29	--	--	--	--	--	--	--	--	4	0	--	--	14	--	0	1,179	69
SHMW-02D/02DR	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	0	5	1
SHMW-03S	2.0 - 12.0	3	0	5	13	111	24	4	9	40	5	0	9	24	2	3	18	0	0	131	39
SHMW-03I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	0	52	5
SHMW-04S/04SR	2.0 - 12.0	7,567	8,059	7,561	--	--	--	--	--	--	--	--	2,717	702	469	292	572	391	292	25,860	9,482
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1
SHMW-05S/05SR	2.0 - 12.0	77	83	64	--	--	--	--	--	--	--	--	20	22	25	27	45	25	20	2,960	234
SHMW-05I/05IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	0	0	0
SHMW-06S	2.0 - 6.0	1,296	1,343	1,298	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,296	4,289	2,214
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
SHMW-07S/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	185	3,946	1,547
SHMW-07I/07IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	11	--	0	11	1
SHMW-08S	1.0 - 7.0	8	9	10	--	--	5	5	4	6	13	4	9	7	10	5	9	5	0	19	7
SHMW-08I	35.0 - 45.0	--	--	--	--	--	0	--	0	--	--	--	0	--	--	--	5	--	0	5	1
SHMW-09S	2.0 - 12.0	1,039	1,298	671	483	--	584	455	224	--	--	--	--	--	--	--	--	--	178	1,298	734
SHMW-09I	35.0 -45.0	--	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	0	0	0
SHMW-10S	5.0 -15.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SHMW-10I	35.5 - 45.5	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	5	--	0	5	1
SHMW-11S	3.5 - 13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0
SHMW-11I	35.0 - 45.0	--	--	--	0	--	0	--	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	0	930	246
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	2	--	--	--	0	--	--	--	6	--	0	23	3
SHMW-13S	1.5 - 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	12	0	12	1
SHMW-13I	35.0- 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	0	0	0

NOTES:

-- not analyzed or not applicable
µg/L - micrograms per liter
BTEX - benzene, toluene, ethylbenzene, and xylene

Table 5
Summary of Historical Total PAH Results
Sag Harbor Former MGP Site
Groundwater Monitoring Program - Q1 2012

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)																	
		Sampling Date																	
		1995	2000		2002	2004		2005				2006				2007			
		Nov	Mar	Apr	May	May	Aug	Mar/Apr	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec
MW-01	1.50 - 7.32	4,906	1,548	257	402	30	24	0	61	200	0	0	0	97	95	0	54	87	39
MW-02	0.50 - 7.25	6,991	5,511	5,114	10,729	25,167	4,414	5,809	10,504	--	6,919	5,209	--	0	8,617	3,150	7,421	5,398	165
MW-03	2.17 - 10.17	7,034	3,065	3,433	3,774	3,522	--	2,272	4,557	516	92	1,256	565	4,831	6,212	349	489	463	2,904
MW-04	1.25 - 6.81	3,612	75	--	0	90	--	0	22	1,098	103	11	37	66	31	0	66	238	6
MW-05	2.46 - 7.46	16,386	779	101	1,160	431,600	2,049	918	188,200	--	--	--	--	--	--	--	--	--	--
MW-06	2.47 - 7.47	5,416	894	653	258	33	--	90	79	204	0	22	0	0	645	35	46	17	0
SHMW-01S/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 - Q1 2012

Well No.	Screen Interval (feet)	Total PAH Concentrations (µg/L)																			
		Sampling Date																	Min	Max	Mean
		2008				2009				2010				2011				2012			
		March	June	Sep	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March	June	Sept	Dec	March			
MW-01	1.50 - 7.32	145	2	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,906	380
MW-02	0.50 - 7.25	400	3,455	3,488	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25,167	6,235
MW-03	2.17 - 10.17	508	96	1,109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92	7,034	2,352
MW-04	1.25 - 6.81	--	0	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,612	304
MW-05	2.46 - 7.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	101	431,600	80,149
MW-06	2.47 - 7.47	0	0	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,416	420
SHMW-01S/01SR	1.0 - 6.0	0	0	0	--	--	--	--	--	--	--	--	0	0	0	0	4	7	0	4,147	1,045
SHMW-01I/01IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	0	32	5
SHMW-01D	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	0	0	0
SHMW-02S	1.0 - 6.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	5	0	5	1
SHMW-02I/02IR	35.0 - 45.0	8	42	209	--	--	--	--	--	--	--	--	9	3	--	--	0	--	0	580,200	26,450
SHMW-02D/02DR	65.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	0	308	61
SHMW-03S	2.0 - 12.0	0	0	17	29	0	20	0	0	0	22	0	0	2	7	25	22	6	0	430	81
SHMW-03I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	0	320	29
SHMW-04S/04SR	2.0 - 12.0	0	1,328	1,868	--	--	--	--	--	--	--	--	3,598	1,440	978	811	942	581	0	6,669	3,337
SHMW-04I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	18	3
SHMW-05S/05SR	2.0 - 12.0	2	0	31	--	--	--	--	--	--	--	--	0	4	167	273	131	309	0	309	67
SHMW-05I/05IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	0	17	2
SHMW-06S	2.0 - 6.0	0	44	5,848	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,848	2,690
SHMW-06I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0
SHMW-07S/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	0	7,211	2,959
SHMW-07I/07IR	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	4	--	0	2,212	277
SHMW-08S	1.0 - 7.0	14	21	55	--	--	59	60	112	129	201	34	3	11	185	195	35	152	3	201	74
SHMW-08I	35.0 - 45.0	--	--	--	--	--	1	--	0	--	--	--	0	--	--	--	0	--	0	13	1
SHMW-09S	2.0 - 12.0	0	92	485	503	--	68	39	389	--	--	--	--	--	--	--	--	--	0	2,737	1,035
SHMW-09I	35.0 -45.0	--	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	0	3	0
SHMW-10S	5.0 -15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	22	1
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	2	0	0	0	0	0	0	0	2	4	6	0	173	6
SHMW-11I	35.0 - 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	0	4	0
SHMW-12S	1.5 - 6.5	9	137	259	280	0	332	4	216	177	585	3	0	0	584	739	513	154	0	739	236
SHMW-12I	35.0 - 45.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	2	--	0	20	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	3	0
SHMW-13I	35.0- 45.0	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	1	--	0	1	0

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

Figures

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

SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

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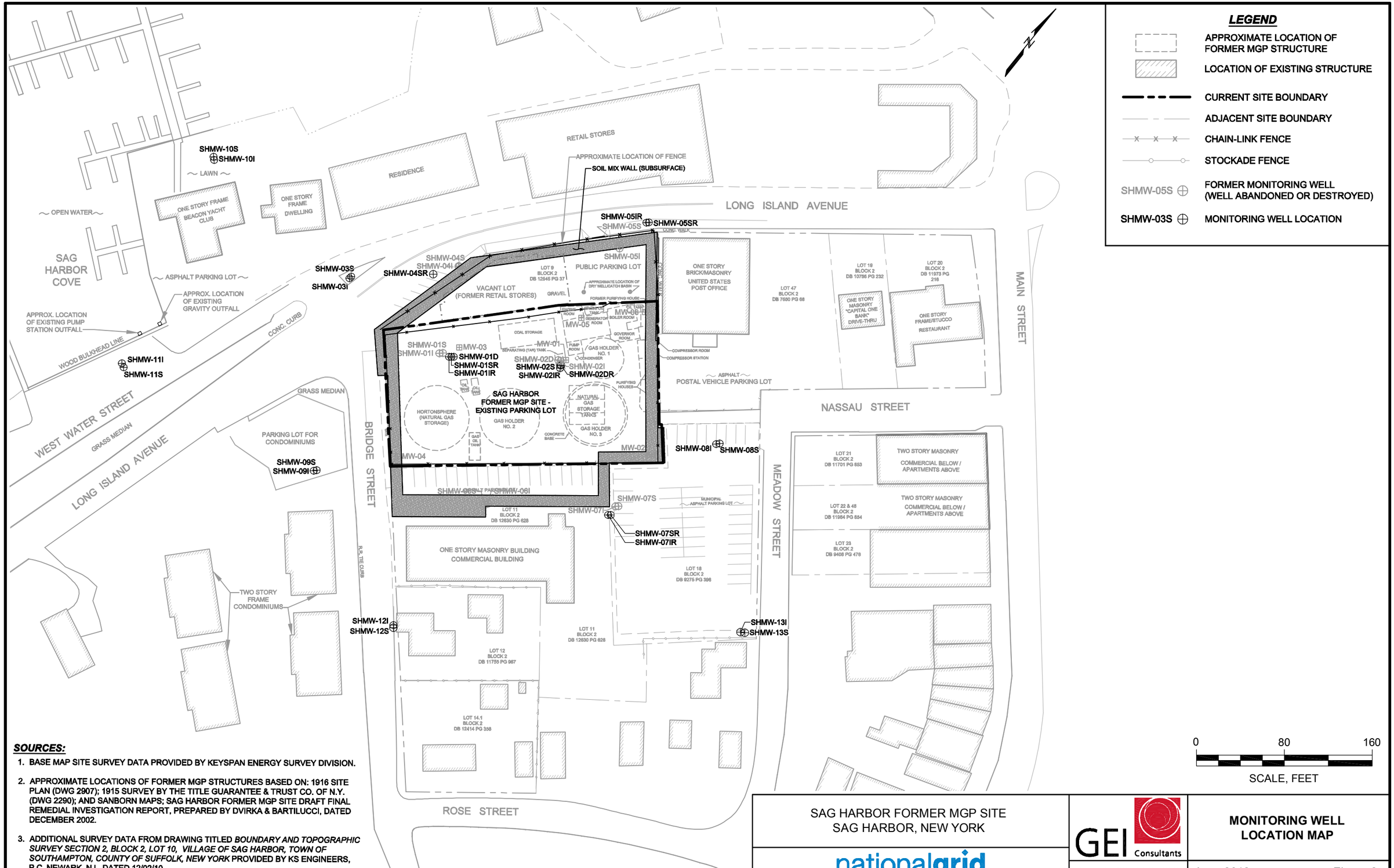
SITE LOCATION MAP

Project 093190-2-1203 | June 2012 | Figure 1

I:\Project\National Grid\Sag Harbor\Groundwater-Quarterly Monitoring\2012\Figures\SAG HARBOR-LOC.CDR



SOURCES:

1. BASE MAP SITE SURVEY DATA PROVIDED BY KEYSPAN ENERGY SURVEY DIVISION.
2. APPROXIMATE LOCATIONS OF FORMER MGP STRUCTURES BASED ON: 1916 SITE PLAN (DWG 2907); 1915 SURVEY BY THE TITLE GUARANTEE & TRUST CO. OF N.Y. (DWG 2290); AND SANBORN MAPS; SAG HARBOR FORMER MGP SITE DRAFT FINAL REMEDIAL INVESTIGATION REPORT, PREPARED BY DVIRKA & BARTILUCCI, DATED DECEMBER 2002.
3. ADDITIONAL SURVEY DATA FROM DRAWING TITLED *BOUNDARY AND TOPOGRAPHIC SURVEY SECTION 2, BLOCK 2, LOT 10, VILLAGE OF SAG HARBOR, TOWN OF SOUTHAMPTON, COUNTY OF SUFFOLK, NEW YORK* PROVIDED BY KS ENGINEERS, P.C, NEWARK, NJ., DATED 12/02/10

SAG HARBOR FORMER MGP SITE
SAG HARBOR, NEW YORK

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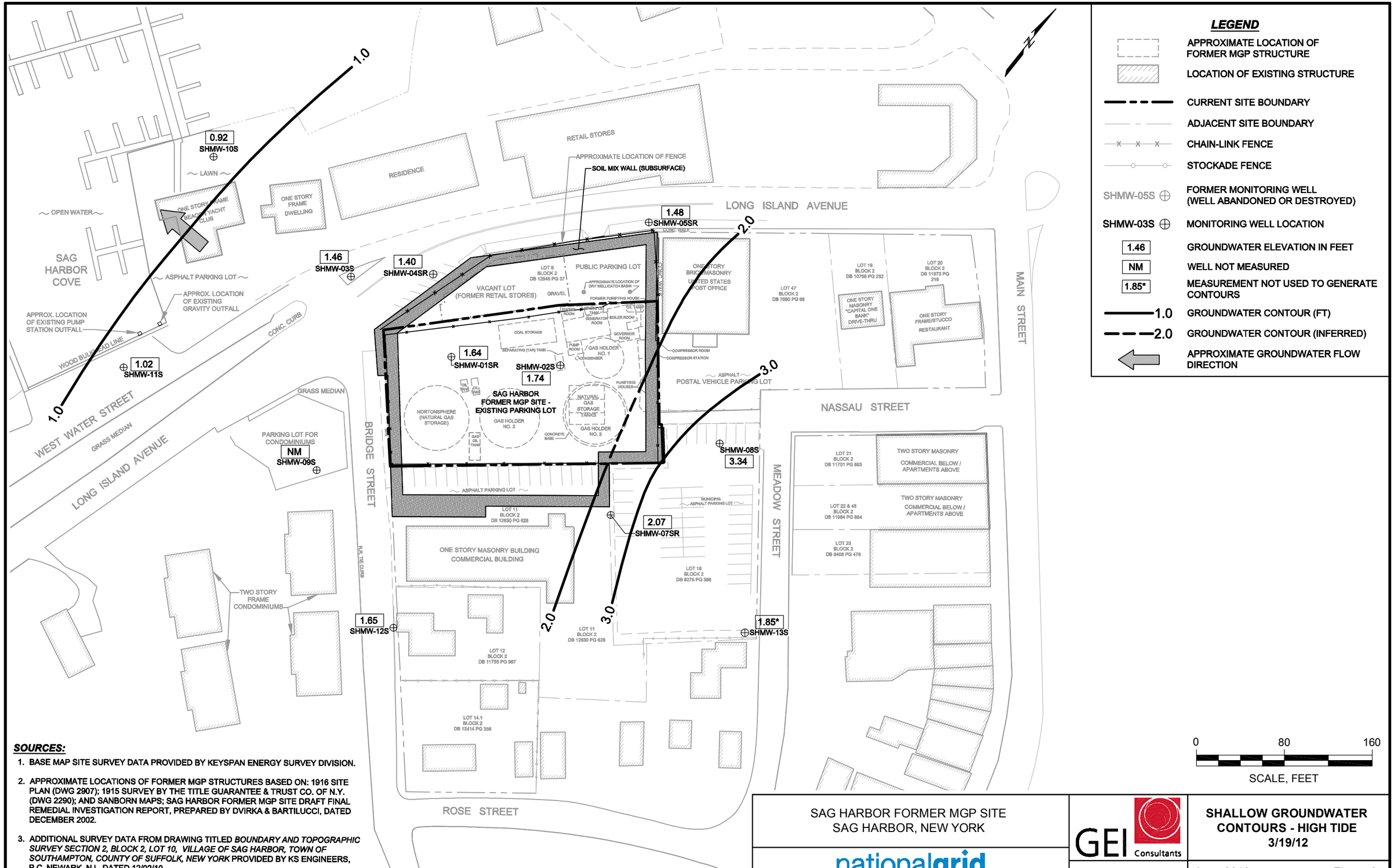
MONITORING WELL LOCATION MAP

Project 093190-2-1203 | June 2012 | Figure 2

I:\PROJECT\NATIONAL GRID\SAG HARBOR\GROUNDWATER-QUARTERLY MONITORING\2012\FIGURES\SAG HARBOR-GW CONTOURS Q1-2012.DWG



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Project 093190-2-1203

SHALLOW GROUNDWATER CONTOURS - HIGH TIDE 3/19/12

June 2012 Figure 3

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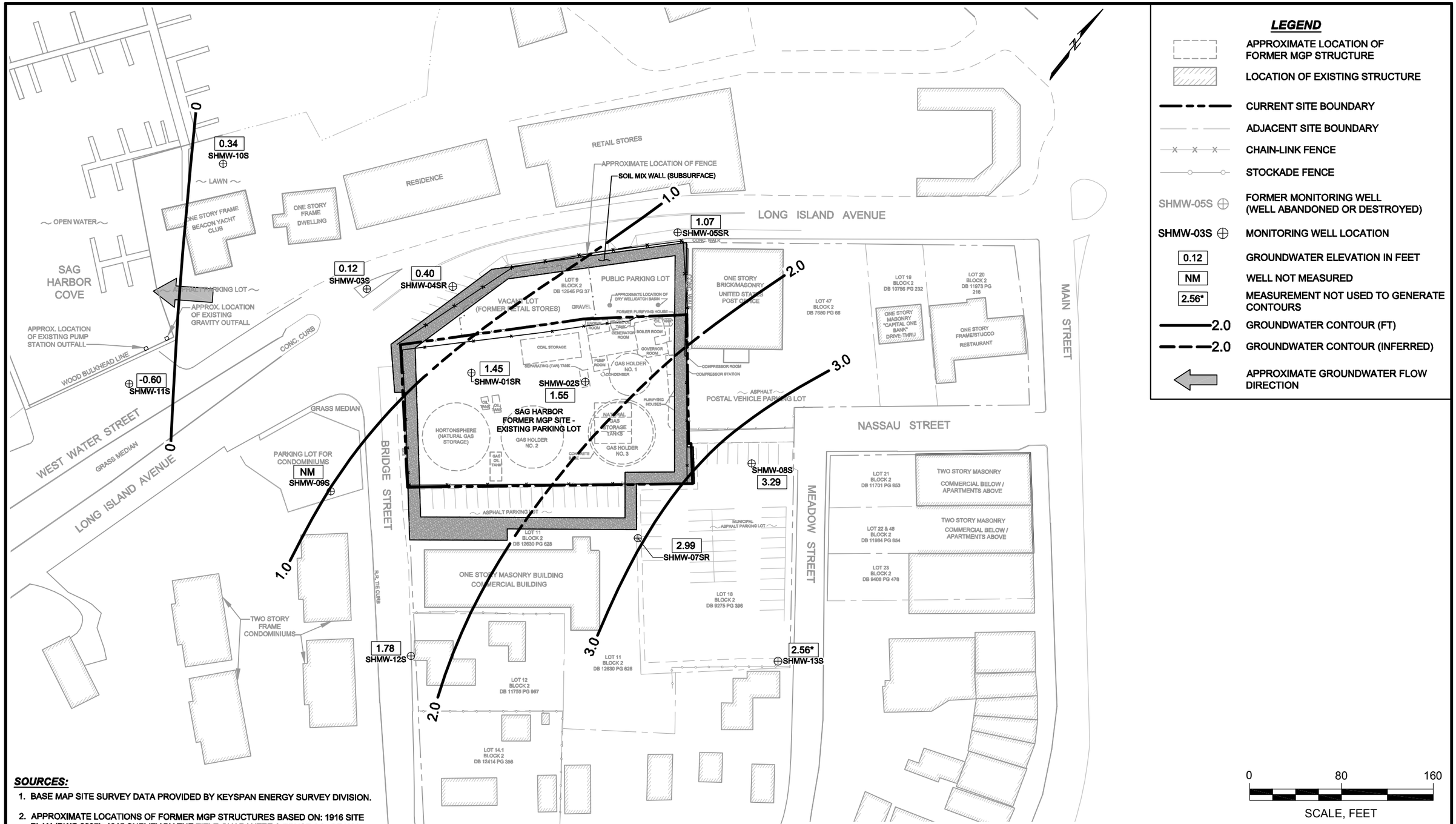

SOURCES:

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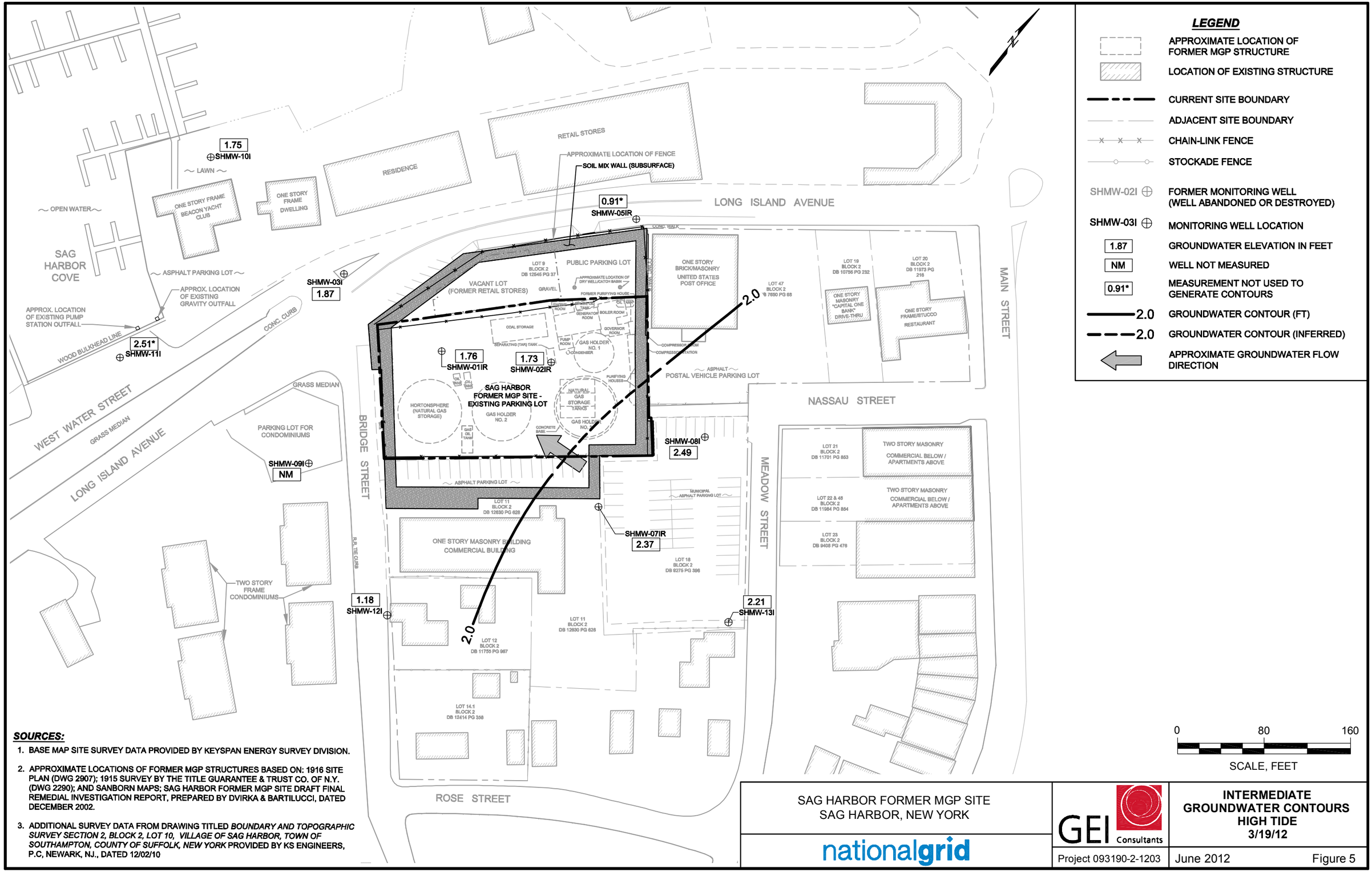
SHALLOW GROUNDWATER CONTOURS - LOW TIDE 3/19/12

June 2012 Figure 4

I:\PROJECT\NATIONAL GRID\SAG HARBOR\GROUNDWATER-QUARTERLY MONITORING\2012\FIGURES\SAG HARBOR-GW CONTOURS Q1-2012.DWG



SOURCES:

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INTERMEDIATE GROUNDWATER CONTOURS HIGH TIDE 3/19/12

Project 093190-2-1203 | June 2012 | Figure 5

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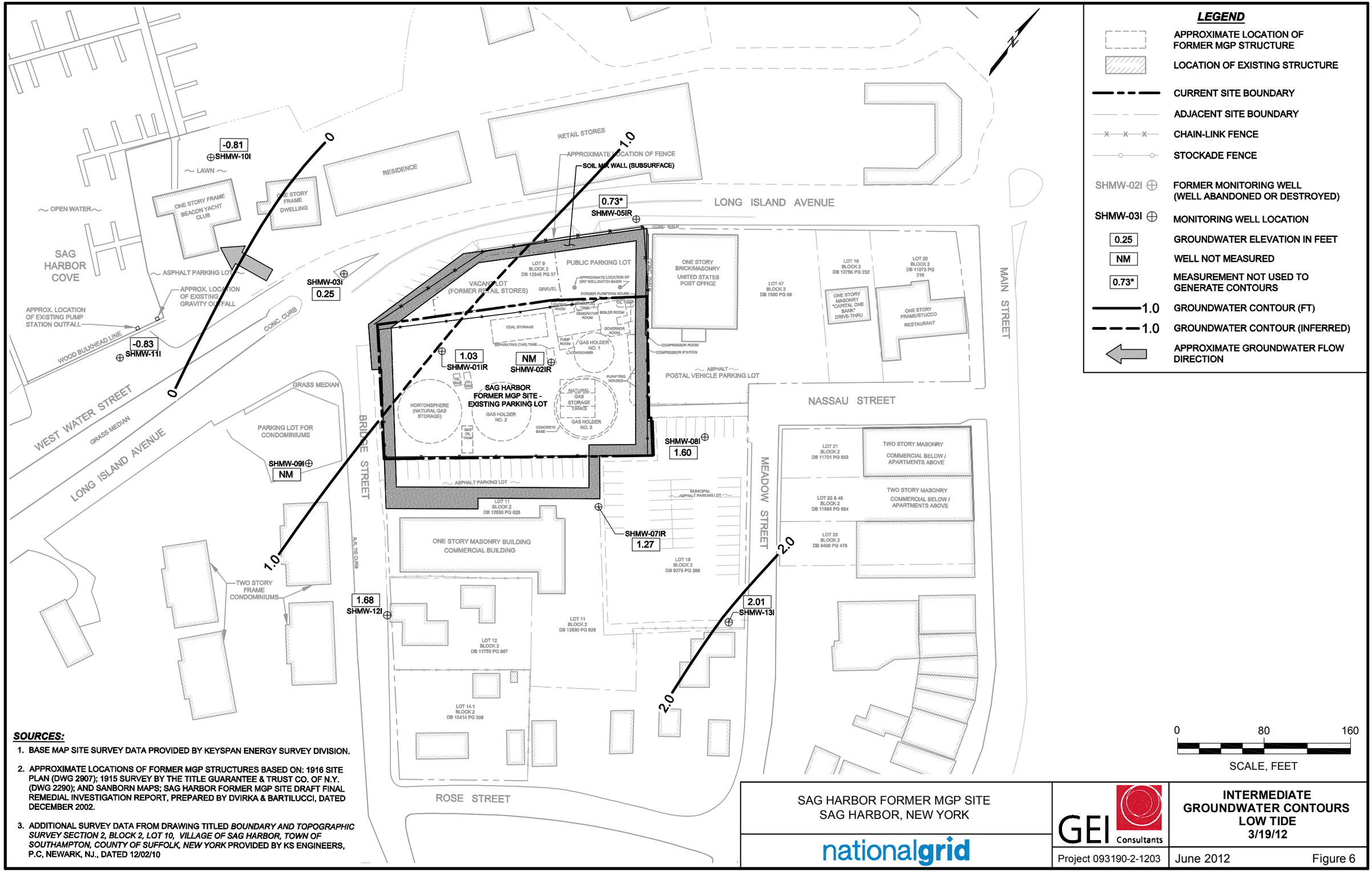

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SAG HARBOR, NEW YORK

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Project 093190-2-1203

INTERMEDIATE GROUNDWATER CONTOURS LOW TIDE 3/19/12

June 2012 Figure 6

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