

**Groundwater Sampling, NAPL
Monitoring/Recovery and Groundwater
Treatment Performance Report for the
Second Quarter of 2012 (April - June 2012)
for the Hempstead Intersection Street
Former Manufactured Gas Plant Site
Villages of Hempstead & Garden City
Nassau County, New York**



Prepared for:

National Grid

175 East Old Country Road
Hicksville, New York 11801

Prepared by:

URS Corporation - New York

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Buffalo, New York 14203

**GROUNDWATER SAMPLING AND GROUNDWATER TREATMENT
PERFORMANCE REPORT FOR THE SECOND QUARTER OF 2012 (APRIL -
JUNE)**

**HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY
NASSAU COUNTY, NEW YORK**

Prepared for:

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December 2012

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ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
BTEX	benzene, toluene, ethylbenzene, xylenes
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
DUSR	data usability summary report
ft	foot (feet)
HIMW	Hempstead Intersection (Street) monitoring well
IPR	Intersection (Street) product recovery
ISS	In Situ Solidification
LNAPL	light non-aqueous phase liquid
MGP	manufactured gas plant
MP	monitoring points
NAPL	non-aqueous phase liquid
ND	not detected
NI	not included
NM	not measured
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
PAHs	polycyclic aromatic hydrocarbons
PZ	piezometer
QC	quality control
RI	remedial investigation
Sh	sheen
TOR	top of riser
URS	URS Corporation
USEPA	United States Environmental Protection Agency
µg/L	micrograms per liter

EXECUTIVE SUMMARY

This report provides a summary of field activities, analytical results, and data interpretations associated with groundwater sampling and groundwater treatment system performance for the Hempstead Intersection Street Former Manufactured Gas Plant (MGP) site in the second quarter 2012 (April through June).

Groundwater monitoring and sampling was conducted on June 13 through June 25, 2012. This included measuring the depth to groundwater and NAPL thickness in 57 wells. Groundwater samples were collected from 25 wells and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs).

Dissolved oxygen measurements were taken by Fenley & Nicol during the second quarter of 2012 for System No. 1 on April 6, April 19, May 7, May 18, June 1, and June 18, a total of six (6) events and were taken for System No. 2 on April 5, April 17, May 4, May 17, May 3, June 15, and June 27, for a total of seven (7) events.

The following results were obtained from the groundwater sampling and NAPL monitoring/recovery events:

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient that ranged from approximately 0.002-0.003 feet per feet (ft/ft).
- The 100 µg/L dissolved-phase plume extended up to approximately 1,500 ft south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was detected in 14 existing wells during the second quarter of 2012. The wells were located within a parking lot immediately south of the site.
- Based on a comparison between the second quarter 2012 data and the previous data, the concentrations of total BTEX and total PAHs remained stable or decreased in most site monitoring wells. A couple of site monitoring wells did show an increase in concentrations of total BTEX and PAHs; Section 3.1 provides further detail on the results of second quarter 2012 groundwater analytical results.

- The first of two oxygenation systems (System No. 2) was brought on line in October 2010 and has successfully promoted increased aerobic conditions in the aquifer near the system during the second quarter of 2012.
- The second of two oxygenation systems (System No. 1) was brought on line in April 2011 and has successfully promoted increased aerobic conditions in the aquifer near the system during the second quarter of 2012.
- Bimonthly headspace and water quality parameters were collected from the monitoring points for Systems No. 1 and No. 2 by Fenley & Nicol. During the second quarter, Fenley & Nicol monitored System No. 1 during six events and System No. 2 during seven events.

1.0 INTRODUCTION

This report summarizes potentiometric head measurements, NAPL thickness measurements, and groundwater quality sampling performed during the second quarter of 2012 at the Hempstead Intersection Street Former MGP Site (refer to Figures 1 and 2).

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007; bimonthly recovery of NAPL was discontinued in July 2011. A separate report has been issued for first quarter activities performed in 2012 (URS 2012a). While separate reports are typically provided for the first three quarters of the year, the fourth quarter data get reported as part of the Annual Report.

2.0 FIELD ACTIVITIES

The field activities performed by URS during the second quarter of 2012 are summarized below.

- Measurement of the depth to groundwater and NAPL thickness in 57 monitoring wells.
- Collection of groundwater samples from monitoring wells.

Monitoring wells and piezometers used for these activities are listed in Table 1.

Fenley & Nicol performed water level measurement, well headspace monitoring with a PID, and dissolved oxygen measurements with a dissolved oxygen meter to monitor the performance of the groundwater treatment Systems No. 1 and No. 2 twice monthly.

2.1 Groundwater Depth and NAPL Thickness Measurements

Depths to groundwater and NAPL thickness measurements for second quarter 2012 are listed in Table 2. An electronic oil/water interface probe was used to measure the depth to groundwater and check for the presence of LNAPL. DNAPL thickness was measured using a weighted cotton string that absorbs oil.

2.2 NAPL Recovery

NAPL recovery ended in the third quarter of 2011 after the July 26, 2011 event because of the start of the In Situ Solidification (ISS) remediation project. Approximately 745 gallons of NAPL were recovered between 2007 and 2011.

2.3 Groundwater Sampling

Low-flow groundwater sampling methods were used, which included purging groundwater at a rate of between 100 and 500 milliliters per minute. The water was pumped through a flow-through cell and monitored for pH, conductivity, turbidity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP). Purging was continued until stable conditions were achieved (defined as three consecutive stable readings [i.e. ± 10 percent] over a

15 minute period). Groundwater samples were collected afterwards and shipped using chain-of-custody procedures to H2M laboratories, Inc. for analysis of BTEX (United States Environmental Protection Agency [USEPA] Method 8260B) and PAHs (USEPA Method 8270C). Purge water is stored in an onsite storage tank for subsequent offsite disposal under a non-hazardous waste manifest. Quality Assurance/Quality Control samples were collected at the frequency of one duplicate per 20 samples, one field blank per sampling event, and one trip blank per courier pick up of samples.

There were 25 monitoring wells sampled during the June 13 through June 25 groundwater sampling event.

2.4 Groundwater Treatment System Operation

National Grid operates two oxygenation systems to treat groundwater in the downgradient plume. System No. 1 is located along Smith Street, a portion of the Long Island Railroad Right of Way, and a portion of Hilton Avenue and began operation in April 2011. System No. 2 extends from Mirschel Park in the east to Kensington Court in the west and began operation in October 2010. Figure 3 shows the locations of the two systems.

The performance of System No. 1 and System No. 2 was monitored through the measurement of water levels, headspace gas, and water quality parameters in the groundwater approximately twice per month by Fenley & Nicol, see Table 4. Fenley & Nicol performed water level measurement, well headspace monitoring with a photoionization detector (PID) and an oxygen meter, and dissolved oxygen measurements with a dissolved oxygen meter.

The full system data is included in Appendix B and shows the systems are effective in increasing the dissolved oxygen levels to augment biodegradation of dissolved phase MGP compounds in groundwater.

3.0 RESULTS

3.1 Dissolved-Phase Plume

The extent of the dissolved-phase groundwater plume boundary is shown in Figure 4. The downgradient boundary of the plume, which is defined by total BTEX or PAH concentrations greater than 100 µg/L, extends approximately 1,500 feet south of the site boundary. Based on comparison with previous quarterly groundwater monitoring data, the concentrations of total BTEX and PAHs in groundwater have generally remained stable or decreased somewhat. Only three wells had minor increases in concentrations whereas nine of the wells had decreasing concentrations.

In June 2012, concentrations of total BTEX and PAHs in the furthest downgradient well pair (HIMW-15I/D) ranged from “not-detected” (deep well HIMW-15D) to 31 µg/L of total PAHs in HIMW-15I (intermediate well); representing a drop in concentration compared to first quarter 2012. Total BTEX in HIMW-15I remained relatively stable; decreasing from 21 µg/L in first quarter 2012 to 17 µg/L in second quarter 2012.

Several monitoring wells (HIMW-5D, HIMW-13I, HIMW-20I, HIMW-23, HIMW-24, and HIMW-25) showed significant decreases in concentrations of total BTEX and PAHs compared to first quarter 2012. HIMW-5D had concentrations of total BTEX change from 91µg/L in first quarter to 41 µg/L in second quarter and total PAHs change from 2,698 µg/L in first quarter to 813 µg/L in second quarter. HIMW-13I had concentrations of total BTEX change from 27 µg/L in first quarter to 4µg/L in second quarter and total PAHs change from 63 µg/L in first quarter to 13 µg/L in second quarter. HIMW-20I had concentrations of total BTEX change from 710 µg/L in first quarter to 474 µg/L in second quarter and total PAHs change from 3,968 µg/L in first quarter to 2,446 µg/L in second quarter. HIMW-23 had concentrations of total BTEX change from 30 µg/L in first quarter to 3 µg/L in second quarter and total PAHs change from 43 µg/L in first quarter to 7 µg/L in second quarter. HIMW-24 had concentrations of total BTEX change from 827 µg/L in first quarter to 125 µg/L in second quarter and total PAHs change from 808 µg/L in first quarter to 134 µg/L in second quarter. HIMW-25 had concentrations of total BTEX change from 12 µg/L in first quarter to 2 µg/L in second quarter while total PAHs remained mostly stable ranging from “not-detected” in first quarter to 1 µg/L in second quarter.

Three monitoring wells (HIMW-08S, HIMW-14I and HIMW-22) show minor increases in concentrations of total BTEX and PAHs compared to first quarter 2012. For well HIMW-08S, the total BTEX increased from 3 to 6 µg/L and total PAHs increased from 15 to 25 µg/L from the first to the second quarter 2012. HIMW-14I increased from 33 µg/L to 67 µg/L of total BTEX between first and second quarter 2012. Total PAHs in HIMW-14I dropped slightly from 78 µg/L to 58 µg/L between first and second quarter 2012. HIMW-22 increased from 45 µg/L to 83 µg/L of total BTEX between first and second quarter 2012. Total PAHs in HIMW-22 increased from 17 µg/L in first quarter to 91 µg/L in second quarter 2012. Concentrations for all site monitoring wells sampled this quarter are listed in Table 3. Some other wells (e.g. HIMW-13D) had increases of 1 µg/L which is not a noteworthy change in concentration range.

3.2 Potentiometric Heads and NAPL Thickness

Potentiometric heads and NAPL thickness measurements for second quarter 2012 are presented in Table 2. Potentiometric surface maps for shallow, intermediate and deep groundwater zones were developed using this data and are shown in Figures 5, 6, and 7, respectively. The data indicates that the direction of groundwater flow within the well field was south at an average gradient that ranged from approximately 0.002-0.003 ft/ft.

DNAPL was detected in 14 of the existing wells during the second quarter 2012. All of the wells where DNAPL was identified are within a parking lot that is immediately south of the site.

3.3 Groundwater Analytical Results

Groundwater analytical results are summarized in Table 3 and illustrated on Figures 4 and 8.

A Data Usability Summary Report (DUSR) was prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B – Guidance for the Development of Data Usability Summary Reports, May 2010. An electronic copy of the DUSR is included as Appendix A. The review included a review of holding times; completeness of all required deliverables; quality control (QC) results

(blanks, instrument tunes, calibration standards, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers. All sample analyses were found to be compliant with the method and validation criteria and the data is useable as reported.

3.4 NAPL Recovery Volumes

NAPL recovery activities were discontinued in July 2011 because of the start of In Situ Solidification (ISS) remediation. Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011.

3.5 Groundwater Treatment System Performance

System No. 1

The groundwater treatment System No. 1 started operation on April 27, 2011. Fenley & Nicol conduct bimonthly monitoring including measurement of water depth, dissolved oxygen concentration, and headspace vapors by photoionization detector monitoring and percent oxygen with an oxygen meter. A summary of the data collected from the monitoring points in the first quarter 2012 is presented on Table 4.

Dissolved phase oxygen concentrations in the monitoring point (MP) wells continued a trend started at the end of the first quarter of lower, but still aerobic oxygen concentrations. Delivery wells installed adjacent to the oxygen delivery line (MP-1-1S through MP-1-4D) were all between about 1.5 mg/L and 4.7 mg/L measured at the bottom of the screens, with an average of about 2.7 mg/L. Dissolved oxygen concentrations towards the top of the screens were higher (averaging about 6.8 mg/L), but decreased during this quarter. These oxygen concentrations, though lower than before, indicate the presence of sufficient oxygen to support aerobic conditions.

Oxygen concentrations in the MP wells located downgradient of the plume (MP-1-5 through MP-1-8) showed dissolved phase oxygen concentrations ranging between 1.4 mg/L to 3.0 mg/L. Dissolved oxygen concentrations were generally lower in the downgradient wells, as is

expected with the biological process proceeding while groundwater flows downgradient, yet still remained uniformly aerobic.

Headspace oxygen concentrations remained high in all the shallow MPs installed along the delivery line. These elevated readings represent short circuiting of oxygen from the delivery wells to the MPs. Because the MPs are capped, this short circuiting does not act as a pathway for oxygen to escape the wells rather than become dissolved.

System No. 2

The groundwater treatment System No. 2 started operation on October 11, 2010. Fenley & Nicol conduct bimonthly monitoring including measurement of water depth, dissolved oxygen concentration, and headspace vapors by photoionization detector monitoring and percent oxygen with an oxygen meter. A summary of the data collected from the monitoring points in the first quarter 2012 is presented on Table 4.

Dissolved phase oxygen concentrations in the monitoring point (MP) wells continued a trend started at the end of the first quarter of low, but still aerobic oxygen concentrations. Oxygen concentrations were all between about 1.4 mg/L and 3.5 mg/L measured at the bottom of the screens, with an average of about 2.5 mg/L. Dissolved oxygen concentrations towards the top of the screens were higher (averaging about 7.3 mg/L), but decreased during this quarter. These oxygen concentrations, though lower than before, demonstrate the presence of sufficient oxygen to support aerobic conditions.

Headspace oxygen concentrations were much lower this quarter than earlier quarters (typically 20% - 25%), with only sporadic increases in MP-2-2D and MP-2-5, wells previously exhibiting high headspace oxygen. However, oxygen greater than the detector's upper limit of 40% were not detected in any wells.

4.0 SUMMARY

Following is a summary of the second quarter 2012 groundwater sampling and NAPL monitoring/recovery data presented in this report:

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient of 0.002-0.003 ft/ft.
- The dissolved-phase plume extended up to approximately 1,500 feet south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was detected in 14 existing wells during the second quarter of 2012. The wells were located within a parking lot immediately south of the site.
- Based on a comparison between the second quarter 2012 data and the previous data, the concentrations of total BTEX and total PAHs remained stable or decreased in most site monitoring wells. A couple of site monitoring wells did show an increase in concentrations of total BTEX and PAHs.
- The first of two oxygenation systems (System No. 2), brought on line in October 2010, has successfully promoted increased aerobic conditions in the aquifer near the system.
- The second of two oxygenation systems (System No. 1), brought on line in April 2011, has successfully promoted increased aerobic conditions in the aquifer near the system.
- Bimonthly headspace and water quality parameters were collected from the monitoring points for Systems No. 1 and No. 2 by Fenley & Nicol. During the second quarter, Fenley & Nicol monitored System No. 1 during six events and System No. 2 during seven events.

REFERENCES

- URS, 2007. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second and Third Quarters of 2007 (April 2007 and July-August 2007) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* November.
- URS, 2008a. *2007 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* February.
- URS, 2008b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2008 (January – March 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* June.
- URS, 2008c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2008 (April - June 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* October.
- URS, 2009a. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2008 (July - September 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* January.
- URS, 2009b. *2008 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* March.
- URS, 2009c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2009 (January - March 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* June.
- URS, 2009d. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2009 (April - June 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* September.
- URS, 2009e. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2009 (July - September 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* November.
- URS, 2010a. *2009 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* February.
- URS, 2010b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2010 (January - March 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* April.
- URS, 2010c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2010 (April - June 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* September.

**2nd QUARTER GROUNDWATER SAMPLING
AND GROUNDWATER TREATMENT
PERFORMANCE REPORT**

**HEMPSTEAD INTERSECTION
STREET FORMER MGP SITE**

- URS, 2010d. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2010 (July - September 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.
- URS, 2010e. *2010 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.
- URS, 2011a. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2011 (January - March 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* July.
- URS, 2011b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2011 (April - June 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* September.
- URS, 2011c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2011 (July- September 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.
- URS, 2012a. *2011 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* February.
- URS, 2012b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2012 (January - March 2012) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* July.

TABLES

Table 1

**Summary of Field Activities for the Second Quarter 2012 ^{(1), (2)}
Hempstead Intersection Street Former MGP Site**

Well ID	Quarterly Monitoring & Sampling Event (June 13-June 25, 2012)		
	Water Level	NAPL Thickness	Water Quality
HIMW-002S	X	X	
HIMW-002I	X	X	
HIMW-002D	X	X	
HIMW-003S	X	X	X
HIMW-003I	X	X	X
HIMW-003D	X	X	X
HIMW-004S	X	X	
HIMW-004I	X	X	
HIMW-004D	X	X	
HIMW-005S	X	X	X
HIMW-005I	X	X	X
HIMW-005D	X	X	X
HIMW-008S	X	X	X
HIMW-008I	X	X	X
HIMW-008D	X	X	X
HIMW-009S	X	X	
HIMW-009I	X	X	
HIMW-009D	X	X	
HIMW-010S	X	X	
HIMW-010I	X	X	
HIMW-010D**			
HIMW-011S			
HIMW-011I	X	X	
HIMW-011D	X	X	
HIMW-012S	X	X	X
HIMW-012I	X	X	X
HIMW-012D	X	X	X
HIMW-013S	X	X	X
HIMW-013I	X	X	X
HIMW-013D	X	X	X
HIMW-014I	X	X	X
HIMW-014D	X	X	X
HIMW-015I	X	X	X
HIMW-015D	X	X	X
HIMW-016S	X	X	
HIMW-016I	X	X	
HIMW-017S	X	X	
HIMW-20S	X	X	X
HIMW-20I	X	X	X
HIMW-21	X	X	
HIMW-22	X	X	X
HIMW-23	X	X	X
HIMW-24	X	X	X
HIMW-25	X	X	X

Table 1

**Summary of Field Activities for the Second Quarter 2012 ^{(1), (2)}
Hempstead Intersection Street Former MGP Site**

Well ID	Quarterly Monitoring & Sampling Event (June 13-June 25, 2012)		
	Water Level	NAPL Thickness	Water Quality
PZ-02			
PZ-03			
IPR-14	X	X	
IPR-15	X	X	
IPR-16	X	X	
IPR-17	X	X	
IPR-18	X	X	
IPR-19S*			
IPR-19D	X	X	
IPR-20	X	X	
IPR-21	X	X	
IPR-22	X	X	
IPR-23	X	X	
IPR-24	X	X	
IPR-29	X	X	
IPR-30	X	X	
OSMW-01	X	X	
OSMW-02			
OSMW-03			

Notes:

- 1 Field marked with "X" indicates that the activity was performed.
- 2 Blank field indicates that the activity was not performed.
- * IPR-19S is covered with cold patch and is inaccessible.
- ** HIMW-10D was destroyed by sidewalk/driveway construction.

Table 2
Groundwater and NAPL Measurements
Second Quarter 2012
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-02S	6/13/2012	73.82	ND	24.73	ND	41.6	0	0.00	49.09
HIMW-02I	6/13/2012	78.87	ND	24.87	ND	91.5	0	0.00	54.00
HIMW-02D	6/13/2012	74.13	ND	25.06	ND	117.3	0	0.00	49.07
HIMW-03S	6/13/2012	65.00	ND	17.28	ND	34.7	0	0.00	47.72
HIMW-03I	6/13/2012	64.94	ND	16.52	ND	86.9	0	0.00	48.42
HIMW-03D	6/13/2012	65.26	ND	16.18	ND	145.3	0	0.00	49.08
HIMW-04S	6/13/2012	72.74	ND	24.73	ND	41.6	0	0.00	48.01
HIMW-04I	6/13/2012	72.78	ND	24.85	ND	90.5	0	0.00	47.93
HIMW-04D	6/13/2012	72.65	ND	25.48	ND	180.5	0	0.00	47.17
HIMW-05S	6/14/2012	67.19	ND	18.98	ND	39.1	0	0.00	48.21
HIMW-05I	6/14/2012	67.22	ND	19.25	ND	92.3	0	0.00	47.97
HIMW-05D	6/14/2012	67.22	ND	19.78	ND	139.0	0	0.00	47.44
HIMW-08S	6/13/2012	65.04	ND	17.31	ND	37.1	0	0.00	47.73
HIMW-08I	6/13/2012	65.14	ND	17.42	ND	75.1	0	0.00	47.72
HIMW-08D	6/13/2012	64.93	ND	17.25	ND	114.8	0	0.00	47.68
HIMW-09S	6/13/2012	70.03	ND	21.66	ND	39.6	0	0.00	48.37
HIMW-09I	6/13/2012	69.93	ND	21.64	ND	80.5	0	0.00	48.29
HIMW-09D	6/13/2012	69.96	ND	21.77	ND	122.8	0	0.00	48.19
HIMW-10S	6/13/2012	71.60	ND	22.30	ND	39.1	0	0.00	49.30
HIMW-10I	6/13/2012	71.47	ND	22.07	ND	91.4	0	0.00	49.40
HIMW-10D	NM	71.44	ND	NM	ND	136.0	0	0.00	NM
HIMW-11S	NM	71.62	ND	NM	ND	41.6	0	0.00	NM
HIMW-11I	6/13/2012	71.43	ND	25.55	ND	94.5	0	0.00	45.88
HIMW-11D	6/13/2012	71.39	ND	22.56	ND	123.6	0	0.00	48.83
HIMW-12S	6/13/2012	61.58	ND	15.04	ND	33.5	0	0.00	46.54
HIMW-12I	6/13/2012	61.59	ND	14.90	ND	75.0	0	0.00	46.69
HIMW-12D	6/13/2012	61.82	ND	17.13	ND	128.5	0	0.00	44.69
HIMW-13S	6/13/2012	72.83	ND	28.48	ND	48.9	0	0.00	44.35
HIMW-13I	6/13/2012	72.60	ND	28.27	ND	82.6	0	0.00	44.33
HIMW-13D	6/13/2012	72.53	ND	28.25	ND	122.5	0	0.00	44.28
HIMW-14I	6/13/2012	71.71	ND	27.42	ND	96.9	0	0.00	44.29
HIMW-14D	6/13/2012	71.59	ND	29.94	ND	152.6	0	0.00	41.65
HIMW-15I	6/13/2012	64.18	ND	23.00	ND	93.1	0	0.00	41.18
HIMW-15D	6/13/2012	63.96	ND	25.01	ND	155.0	0	0.00	38.95
HIMW-16S	6/13/2012	67.45	ND	19.21	29.01	34.4	0	5.40	48.24
HIMW-16I	6/13/2012	67.50	ND	19.27	76.26	82.7	0	6.40	48.23
HIMW-17S	6/13/2012	65.96	ND	17.99	33.50	36.7	0	3.20	47.97
HIMW-20S	6/13/2012	70.43	ND	23.28	ND	35.0	0	0.00	47.15
HIMW-20I	6/13/2012	70.30	ND	23.13	ND	73.0	0	0.00	47.17

**Table 2
Groundwater and NAPL Measurements
Second Quarter 2012
Hempstead Intersection Street Former MGP Site**

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-21	6/13/2012	NM	ND	17.55	42.3	45.3	0	3.00	NM
HIMW-22	6/13/2012	NM	ND	28.35	ND	65.0	0	0.00	
HIMW-23	6/13/2012	NM	ND	28.48	ND	77.0	0	0.00	
HIMW-24	6/13/2012	NM	ND	12.75	ND	56.0	0	0.00	
HIMW-25	6/13/2012	NM	ND	15.16	ND	53.0	0	0.00	
PZ-02	6/14/2012	72.96	NM	NM	NM	35.3	NM	NM	NM
PZ-03	6/14/2012	64.58	NM	NM	NM	29.5	NM	NM	NM
IPR-14	6/14/2012	66.93	ND	18.44	ND	44.4	0	0.00	48.49
IPR-15	6/14/2012	67.93	ND	19.42	ND	44.4	0	0.00	48.51
IPR-16	6/14/2012	69.49	ND	20.93	48.85	49.1	0	0.20	48.56
IPR-17	6/14/2012	70.60	ND	21.95	54.10	54.1	0	0.01	48.65
IPR-18	6/14/2012	66.87	ND	18.53	ND	50.0	0	0.00	48.34
IPR-19S	NM	67.68	NM	NM	NM	45.1	NM	NM	NM
IPR-19D	6/14/2012	67.96	ND	19.56	89.91	89.9	0	0.01	48.40
IPR-20	6/13/2012	66.70	ND	18.54	44.40	45.4	0	1.00	48.16
IPR-21	6/14/2012	67.67	ND	19.37	44.61	45.0	0	0.35	48.30
IPR-22	6/13/2012	66.33	ND	18.27	40.15	45.4	0	5.25	48.06
IPR-23	6/14/2012	66.67	ND	18.53	ND	45.4	0	0.00	48.14
IPR-24	6/13/2012	65.88	ND	17.88	42.0	44.4	0	2.40	48.00
IPR-29	6/13/2012	NM	ND	17.85	45.2	49.7	0	4.50	NM
IPR-30	6/14/2012	NM	ND	18.84	NM	NM	0	1.00	NM
OSMW-01	6/13/2012	71.12	NM	22.08	NM	42.2	0	0.00	49.04
OSMW-02	NM	71.59	NM	NM	NM	45.2	0	NM	NM
OSMW-03	NM	71.39	NM	NM	NM	44.7	0	NM	NM

Notes:

- (1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96

sheen Sheen = assumed thickness of 0.01 ft
 NM not measured
 LNAPL light non-aqueous phase liquid
 DNAPL dense non-aqueous phase liquid
 TOR top of riser
 amsl above mean sea level
 ND NAPL not detected

Table 3

**Dissolved-Phase Concentrations of
Total BTEX and Total PAH Compounds
for the Second Quarter of 2012
Hempstead Intersection Street Former MGP Site**

Well ID	Second Quarter 2012 June 13 - June 25, 2012	
	BTEX [ug/L]	PAH [ug/L]
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D	ND	ND
HIMW-003I	ND	ND
HIMW-003S	ND	ND
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	41	813
HIMW-005I	150	2,471
HIMW-005S	ND	ND
HIMW-008D	ND	ND
HIMW-008I	ND	1
HIMW-008S	6	25
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	68	135
HIMW-012S	ND	ND
HIMW-013D	7	29
HIMW-013I	4 (DUP- 5)	13 (DUP- 12)
HIMW-013S	ND	ND
HIMW-014D	ND	ND
HIMW-014I	67	58
HIMW-015D	ND	ND
HIMW-015I	17	31
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-020I	474	2,446
HIMW-020S	ND (DUP- ND)	ND (DUP- ND)
HIMW-021		
HIMW-022	83	91
HIMW-023	3	7
HIMW-024	125	134
HIMW-025	2	1
PZ-02		
PZ-03		

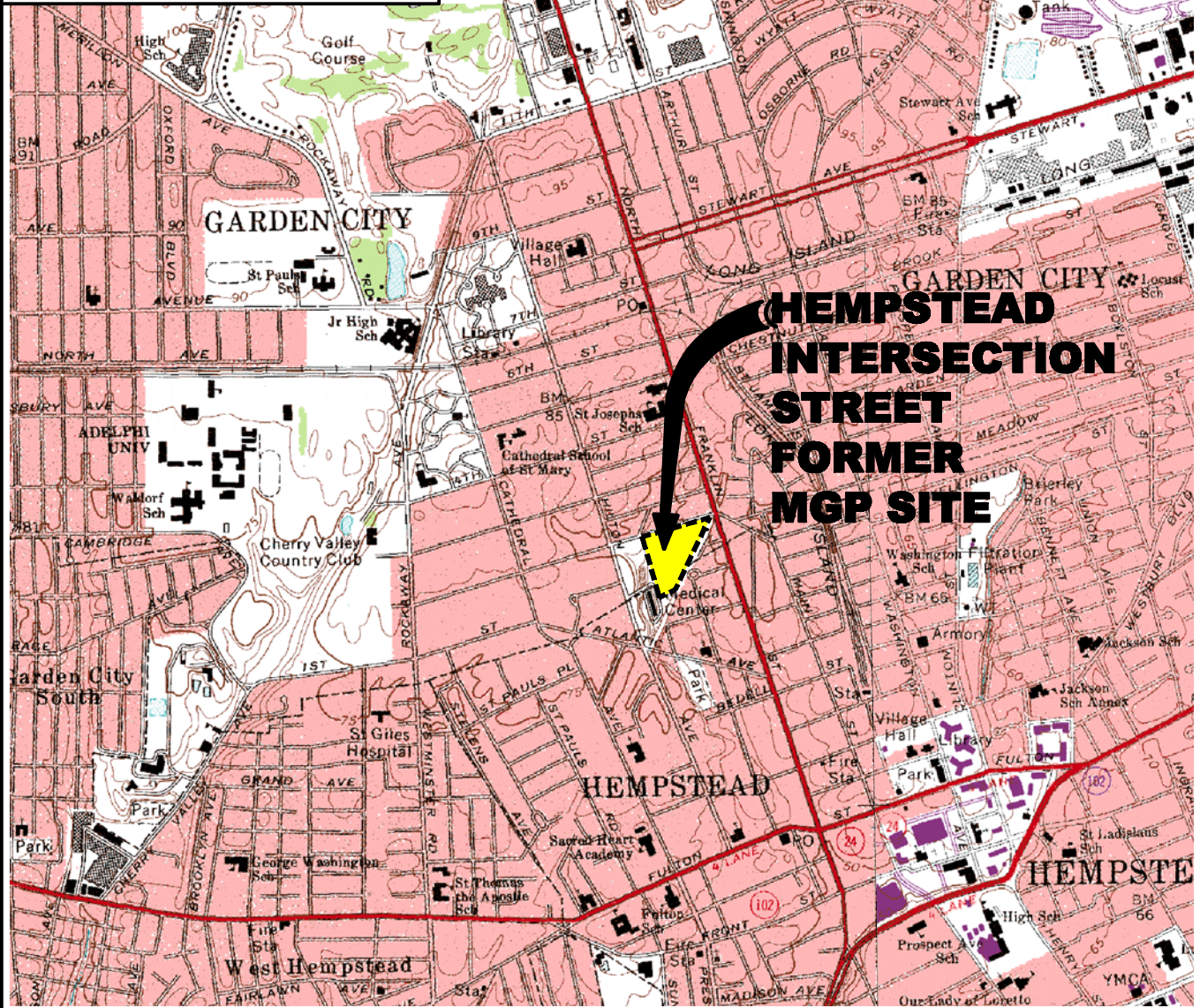
Notes:

	A blank field is "Not Sampled".
	NAPL is periodically identified in this well.
ND	Not Detected.
ug/L	micrograms per liter

FIGURES

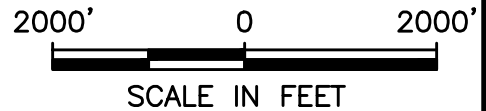


KEY MAP
NEW YORK STATE



NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

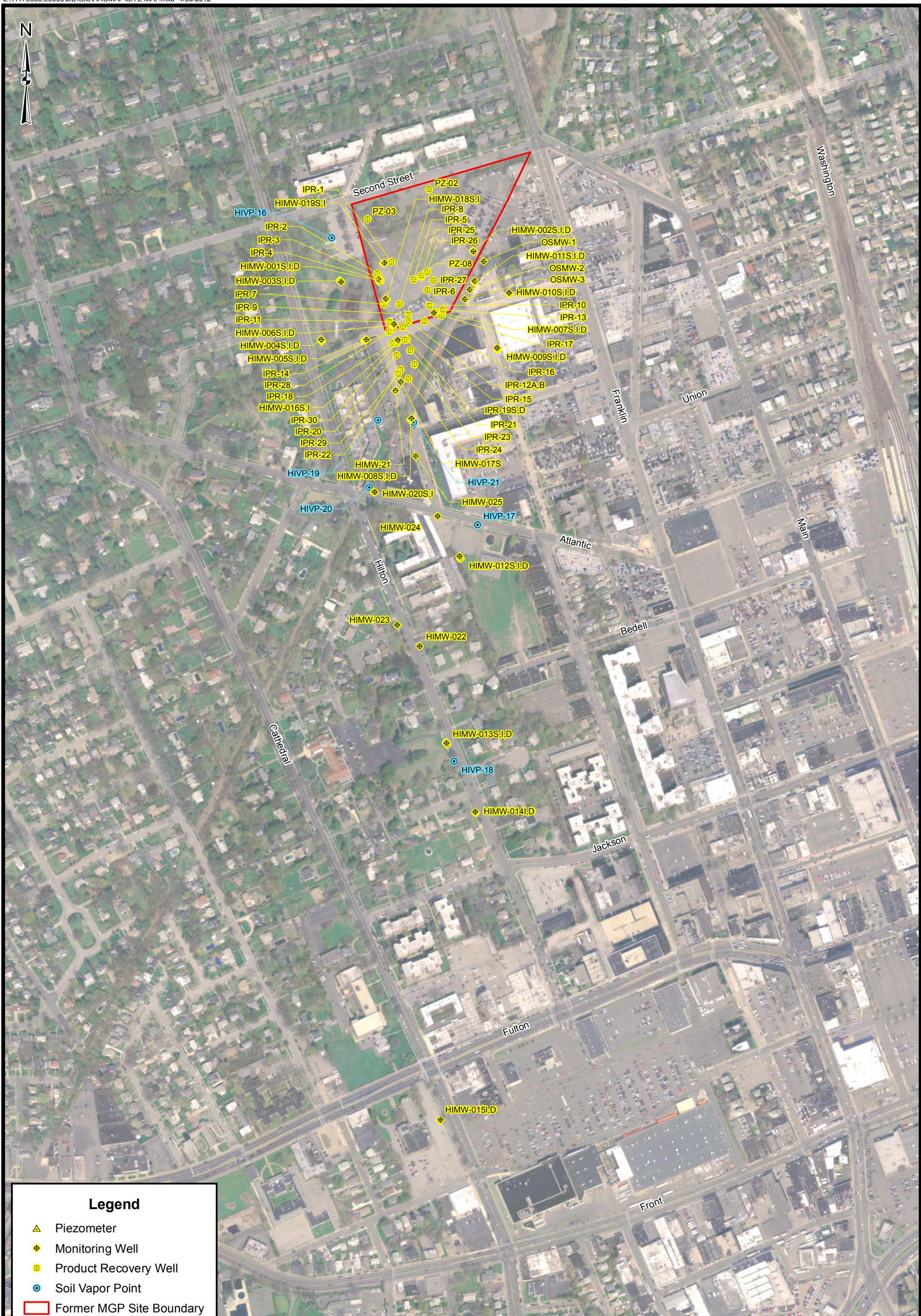
SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUADRANGLES:
FREEPORT, NY (1969)
LYNDBROOK, NY (1969)








URS Corporation

LOCATION MAP

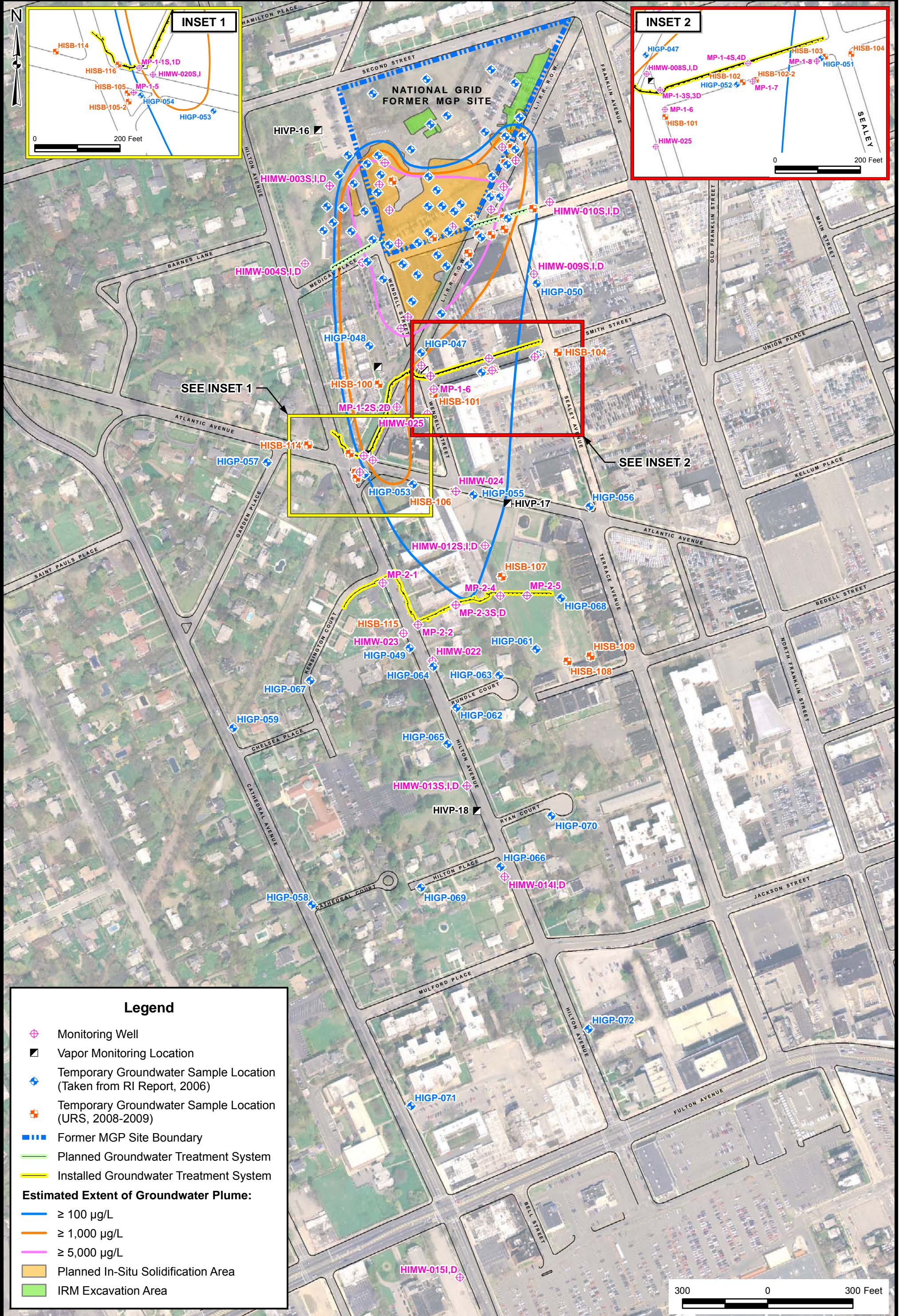
FIGURE 1



Legend

-  Piezometer
-  Monitoring Well
-  Product Recovery Well
-  Soil Vapor Point
-  Former MGP Site Boundary

400 0 400 Feet



Legend

- ⊕ Monitoring Well
- ▣ Vapor Monitoring Location
- ◆ Temporary Groundwater Sample Location (Taken from RI Report, 2006)
- ⊕ Temporary Groundwater Sample Location (URS, 2008-2009)
- Former MGP Site Boundary
- Planned Groundwater Treatment System
- Installed Groundwater Treatment System

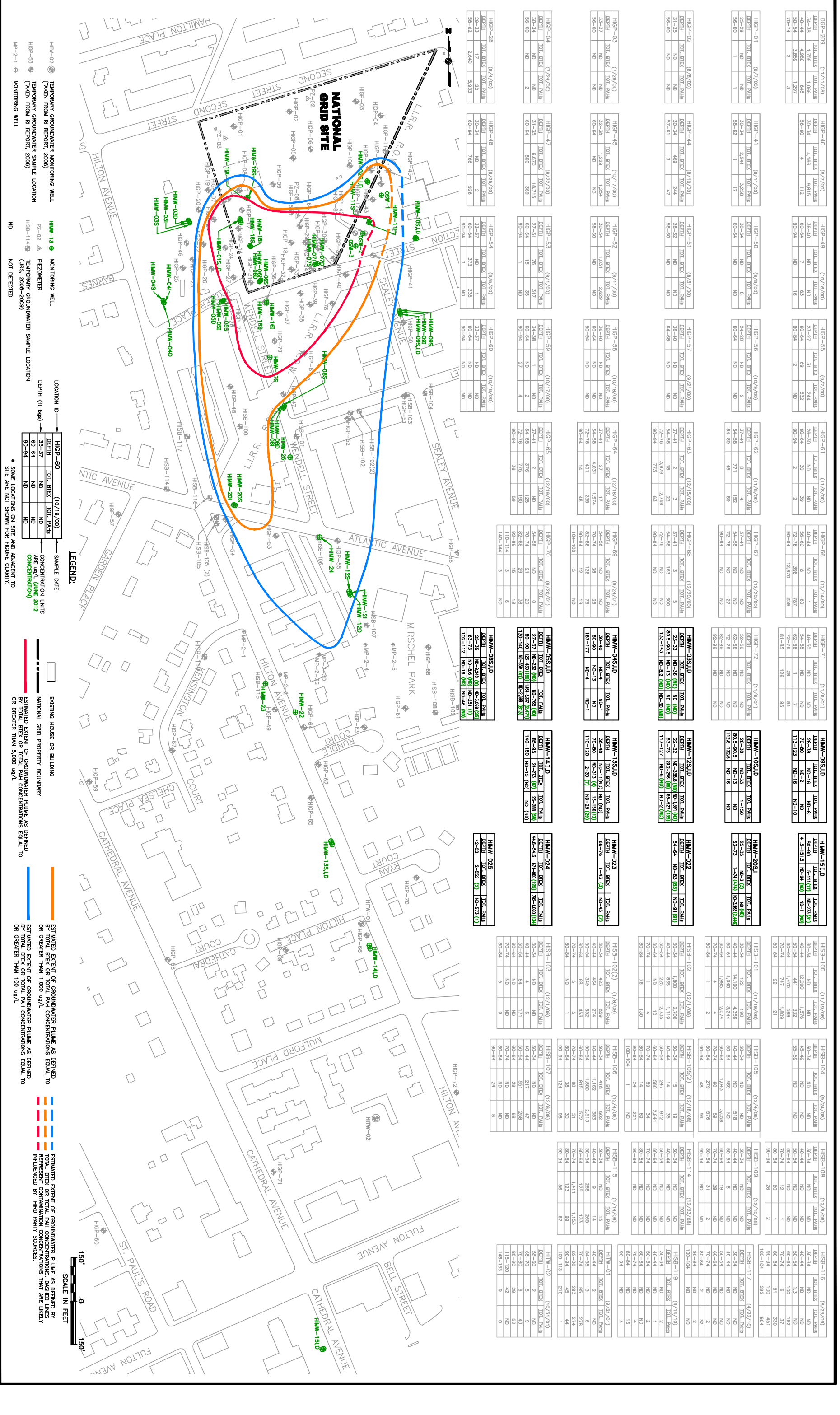
Estimated Extent of Groundwater Plume:

- ≥ 100 µg/L
- ≥ 1,000 µg/L
- ≥ 5,000 µg/L
- Planned In-Situ Solidification Area
- IRM Excavation Area

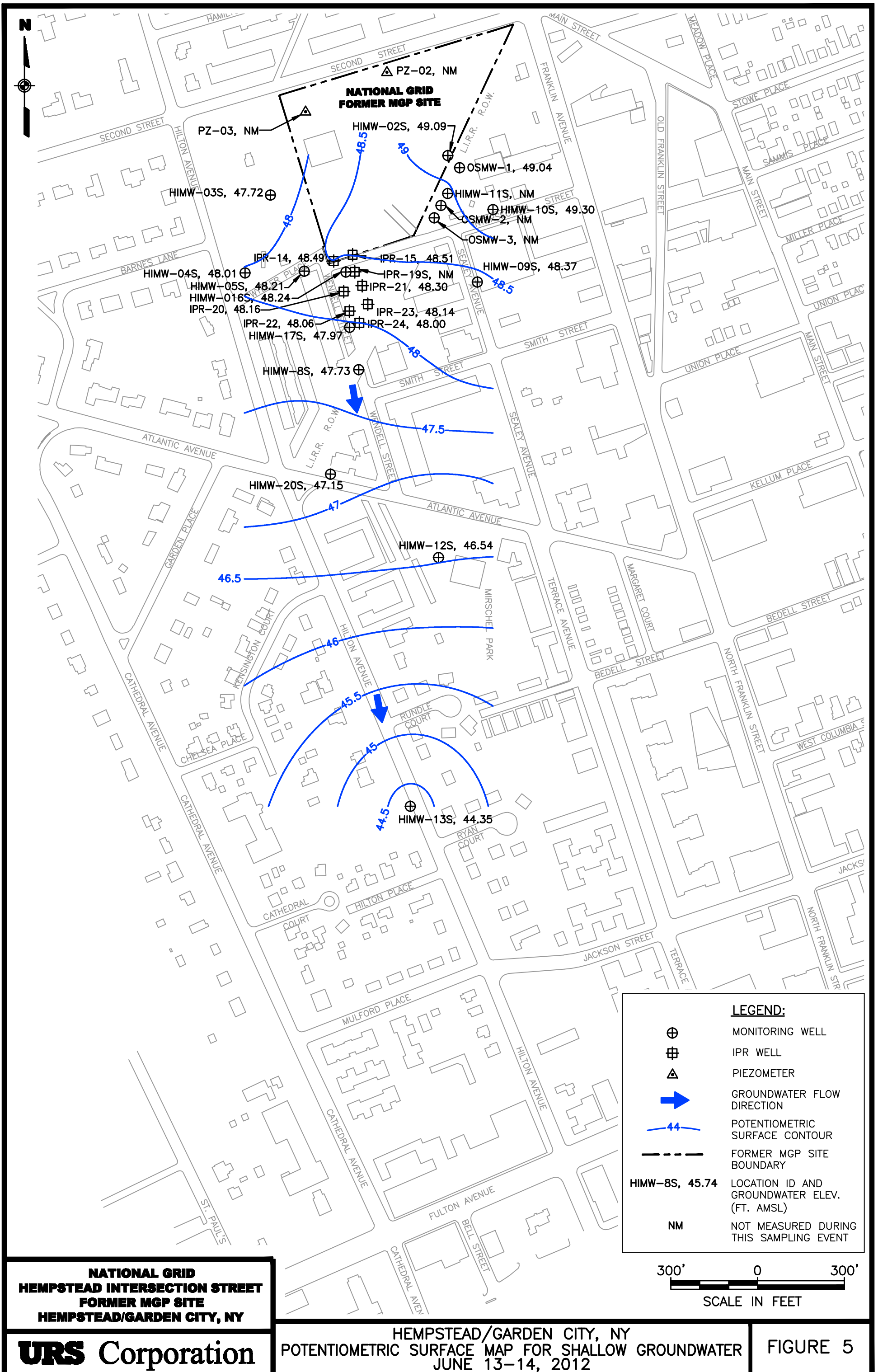
NATIONAL GRID HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
 HEMPSTEAD/GARDEN CITY, NEW YORK
 SOIL REMEDIATION AND GROUNDWATER TREATMENT LOCATIONS

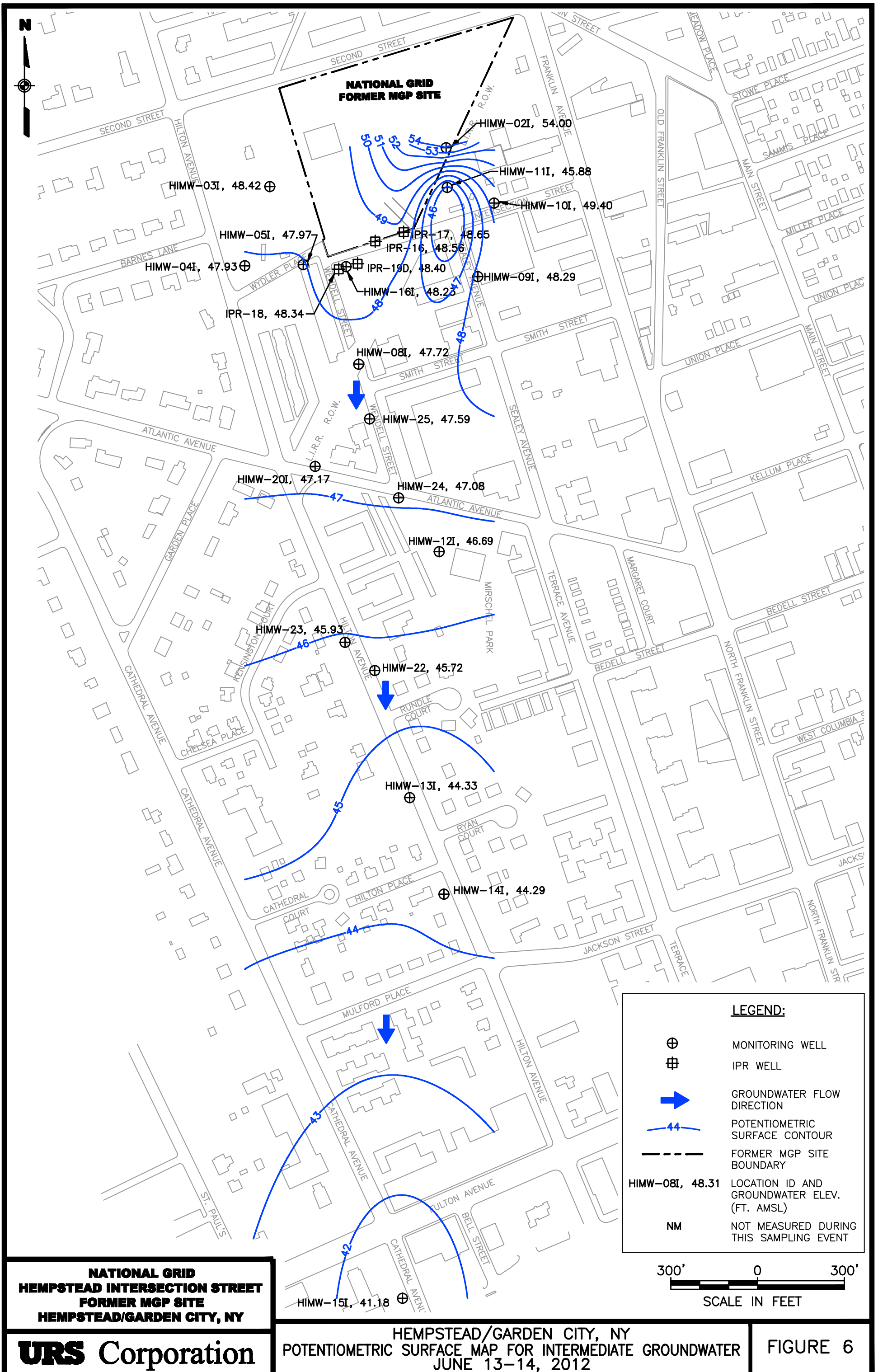


FIGURE 3



Well ID	Location	Sample Date	Depth (ft bgs)	TOC	BTEX	TOC	BTEX	Concentration Units
HIGP-01	(8/7/00)	(10/16/00)	30-34	NO	NO	NO	NO	NO
HIGP-02	(8/7/00)	(10/16/00)	58-60	NO	NO	NO	NO	NO
HIGP-03	(7/28/00)	(10/17/00)	30-34	1.259	1.254	NO	NO	NO
HIGP-04	(7/24/00)	(9/22/00)	60-64	500	369	NO	NO	NO
HIGP-05	(9/11/00)	(9/11/00)	30-34	1.031	2.629	NO	NO	NO
HIGP-06	(8/25/00)	(9/9/00)	60-64	786	926	NO	NO	NO
HIGP-07	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-08	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-09	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-10	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-11	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-12	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-13	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-14	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-15	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-16	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-17	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-18	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-19	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-20	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-21	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-22	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-23	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-24	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-25	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-26	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-27	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-28	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-29	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-30	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-31	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-32	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-33	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-34	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-35	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-36	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-37	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-38	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-39	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-40	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-41	(8/25/00)	(9/9/00)	30-34	NO	NO	NO	NO	NO
HIGP-42	(8/25/00)	(9/9/00)	60-64	NO	NO	NO	NO	NO
HIGP-43	(8/25/00)	(9/9/00)	90-94	NO	NO	NO	NO	NO
HIGP-44	(8/10/00)	(9/21/00)	30-34	469	244	NO	NO	NO
HIGP-45	(10/17/00)	(9/21/00)	57-61	3	47	NO	NO	NO
HIGP-46	(10/17/00)	(9/21/00)	28-32	NO	NO	NO	NO	NO
HIGP-47	(9/22/00)	(10/18/00)	60-64	NO	NO	NO	NO	NO
HIGP-48	(8/25/00)	(10/19/00)	90-94	NO	NO	NO	NO	NO
HIGP-49	(10/16/00)	(10/19/00)	30-34	NO	NO	NO	NO	NO
HIGP-50	(9/9/00)	(10/19/00)	60-64	NO	NO	NO	NO	NO
HIGP-51	(9/21/00)	(10/19/00)	90-94	NO	NO	NO	NO	NO
HIGP-52	(9/11/00)	(10/19/00)	30-34	NO	NO	NO	NO	NO
HIGP-53	(9/11/00)	(10/19/00)	60-64	NO	NO	NO	NO	NO
HIGP-54	(9/11/00)	(10/19/00)	90-94	NO	NO	NO	NO	NO
HIGP-55	(10/17/00)	(12/18/00)	30-34	NO	NO	NO	NO	NO
HIGP-56	(10/17/00)	(12/18/00)	60-64	NO	NO	NO	NO	NO
HIGP-57	(10/17/00)	(12/18/00)	90-94	NO	NO	NO	NO	NO
HIGP-58	(10/17/00)	(12/18/00)	30-34	NO	NO	NO	NO	NO
HIGP-59	(10/17/00)	(12/18/00)	60-64	NO	NO	NO	NO	NO
HIGP-60	(10/17/00)	(12/18/00)	90-94	NO	NO	NO	NO	NO
HIGP-61	(11/8/00)	(12/18/00)	30-34	NO	NO	NO	NO	NO
HIGP-62	(11/8/00)	(12/18/00)	60-64	NO	NO	NO	NO	NO
HIGP-63	(12/15/00)	(12/18/00)	90-94	NO	NO	NO	NO	NO
HIGP-64	(12/18/00)	(12/18/00)	30-34	NO	NO	NO	NO	NO
HIGP-65	(12/18/00)	(12/18/00)	60-64	NO	NO	NO	NO	NO
HIGP-66	(12/18/00)	(12/18/00)	90-94	NO	NO	NO	NO	NO
HIGP-67	(12/20/00)	(12/20/00)	30-34	NO	NO	NO	NO	NO
HIGP-68	(12/20/00)	(12/20/00)	60-64	NO	NO	NO	NO	NO
HIGP-69	(12/20/00)	(12/20/00)	90-94	NO	NO	NO	NO	NO
HIGP-70	(9/24/01)	(9/24/01)	30-34	NO	NO	NO	NO	NO
HIGP-71	(11/8/01)	(11/8/01)	60-64	NO	NO	NO	NO	NO
HIGP-72	(11/8/01)	(11/8/01)	90-94	NO	NO	NO	NO	NO
HMM-00S1.D	(10/19/00)	(10/19/00)	25-31	NO	NO	NO	NO	NO
HMM-00S2.D	(10/19/00)	(10/19/00)	35-41	NO	NO	NO	NO	NO
HMM-00S3.D	(10/19/00)	(10/19/00)	45-51	NO	NO	NO	NO	NO
HMM-00S4.D	(10/19/00)	(10/19/00)	55-61	NO	NO	NO	NO	NO
HMM-00S5.D	(10/19/00)	(10/19/00)	65-71	NO	NO	NO	NO	NO
HMM-00S6.D	(10/19/00)	(10/19/00)	75-81	NO	NO	NO	NO	NO
HMM-00S7.D	(10/19/00)	(10/19/00)	85-91	NO	NO	NO	NO	NO
HMM-00S8.D	(10/19/00)	(10/19/00)	95-101	NO	NO	NO	NO	NO
HMM-00S9.D	(10/19/00)	(10/19/00)	105-111	NO	NO	NO	NO	NO
HMM-00S10.D	(10/19/00)	(10/19/00)	115-121	NO	NO	NO	NO	NO
HMM-00S11.D	(10/19/00)	(10/19/00)	125-131	NO	NO	NO	NO	NO
HMM-00S12.D	(10/19/00)	(10/19/00)	135-141	NO	NO	NO	NO	NO
HMM-00S13.D	(10/19/00)	(10/19/00)	145-151	NO	NO	NO	NO	NO
HMM-00S14.D	(10/19/00)	(10/19/00)	155-161	NO	NO	NO	NO	NO
HMM-00S15.D	(10/19/00)	(10/19/00)	165-171	NO	NO	NO	NO	NO
HMM-00S16.D	(10/19/00)	(10/19/00)	175-181	NO	NO	NO	NO	NO
HMM-00S17.D	(10/19/00)	(10/19/00)	185-191	NO	NO	NO	NO	NO
HMM-00S18.D	(10/19/00)	(10/19/00)	195-201	NO	NO	NO	NO	NO
HMM-00S19.D	(10/19/00)	(10/19/00)	205-211	NO	NO	NO	NO	NO
HMM-00S20.D	(10/19/00)	(10/19/00)	215-221	NO	NO	NO	NO	NO
HMM-00S21.D	(10/19/00)	(10/19/00)	225-231	NO	NO	NO	NO	NO
HMM-00S22.D	(10/19/00)	(10/19/00)	235-241	NO	NO	NO	NO	NO
HMM-00S23.D	(10/19/00)	(10/19/00)	245-251	NO	NO	NO	NO	NO
HMM-00S24.D	(10/19/00)	(10/19/00)	255-261	NO	NO	NO	NO	NO
HMM-00S25.D	(10/19/00)	(10/19/00)	265-271	NO	NO	NO	NO	NO
HMM-00S26.D	(10/19/00)	(10/19/00)	275-281	NO	NO	NO	NO	NO
HMM-00S27.D	(10/19/00)	(10/19/00)	285-291	NO	NO	NO	NO	NO
HMM-00S28.D	(10/19/00)	(10/19/00)	295-301	NO	NO	NO	NO	NO
HMM-00S29.D	(10/19/00)	(10/19/00)	305-311	NO	NO	NO	NO	NO
HMM-00S30.D	(10/19/00)	(10/19/00)	315-321	NO	NO	NO	NO	NO
HMM-00S31.D	(10/19/00)	(10/19/00)	325-331	NO	NO	NO	NO	NO
HMM-00S32.D	(10/19/00)	(10/19/00)	335-341	NO	NO	NO	NO	NO
HMM-00S33.D	(10/19/00)	(10/19/00)	345-351	NO	NO	NO	NO	NO
HMM-00S34.D	(10/19/00)	(10/19/00)	355-361	NO	NO	NO	NO	NO
HMM-00S35.D	(10/19/00)	(10/19/00)	365-371	NO	NO	NO	NO	NO
HMM-00S36.D	(10/19/00)	(10/19/00)	375-381	NO	NO	NO	NO	NO
HMM-00S37.D	(10/19/00)	(10/19/00)	385-391	NO	NO	NO	NO	NO
HMM-00S38.D	(10/19/00)	(10/19/00)	395-401	NO	NO	NO	NO	NO
HMM-00S39.D	(10/19/00)	(10/19/00)	405-411	NO	NO	NO	NO	NO
HMM-00S40.D	(10/19/00)	(10/19/00)	415-421	NO	NO	NO	NO	NO
HMM-00S41.D	(10/19/00)	(10/19/00)	425-431	NO	NO	NO	NO	NO
HMM-00S42.D	(10/19/00)	(10/19/00)	435-441	NO	NO	NO	NO	NO
HMM-00S43.D	(10/19/00)	(10/19/00)	445-451	NO	NO	NO	NO	NO
HMM-00S44.D	(10/19/00)	(10/19/00)	455-461	NO	NO	NO	NO	NO
HMM-00S45.D	(10/19/00)	(10/19/00)	465-471	NO	NO	NO	NO	NO
HMM-00S46.D	(10/19/00)	(10/19/00)	475-481	NO	NO	NO	NO	NO
HMM-00S47.D	(10/19/00)	(10/19/00)	485-491	NO	NO	NO	NO	NO
HMM-00S48.D	(10/19/00)	(10/19/00)	495-501	NO	NO	NO	NO	NO
HMM-00S49.D	(10/19/00)	(10/19/00)	505-511	NO	NO	NO	NO	NO
HMM-00S50.D	(10/19/00)	(10/19/00)	515-521	NO	NO	NO	NO	NO
HMM-00S51.D	(10/19/00)	(10/19/00)	525-531	NO	NO	NO	NO	NO
HMM-00S52.D	(10/19/00)	(10/19/00)	535-541	NO	NO	NO	NO	NO
HMM-00S53.D	(10/19/00)	(10/19/00)	545-551	NO	NO	NO	NO	NO
HMM-00S54.D	(10/19/00)	(10/19/00)	555-561	NO	NO	NO	NO	NO
HMM-00S55.D	(10/19/00)	(10/19/00)	565-571	NO	NO	NO	NO	NO
HMM-00S56.D	(10/19/00)	(10/19/00)	575-581	NO	NO	NO	NO	NO
HMM-00S57.D	(10/19/00)	(10/19/00)	585-591	NO	NO	NO	NO	NO
HMM-00S58.D	(10/19/00)							





**NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY**

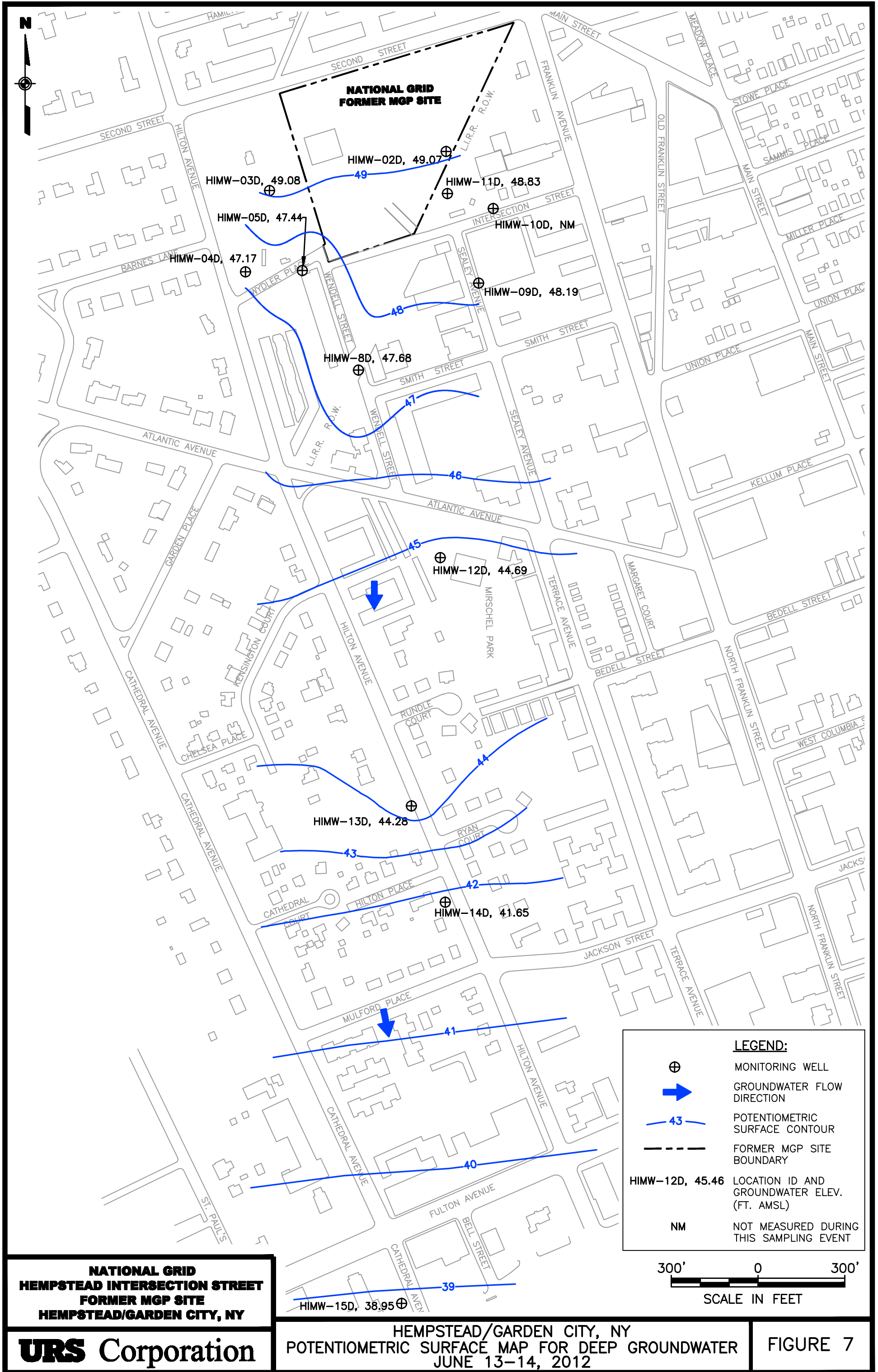
URS Corporation

**HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
JUNE 13-14, 2012**

FIGURE 6

LEGEND:	
	MONITORING WELL
	IPR WELL
	GROUNDWATER FLOW DIRECTION
	POTENTIOMETRIC SURFACE CONTOUR
	FORMER MGP SITE BOUNDARY
HIMW-08I, 48.31	LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
NM	NOT MEASURED DURING THIS SAMPLING EVENT

300' 0 300'
SCALE IN FEET







**NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY**

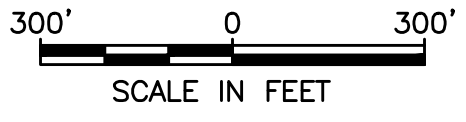
URS Corporation

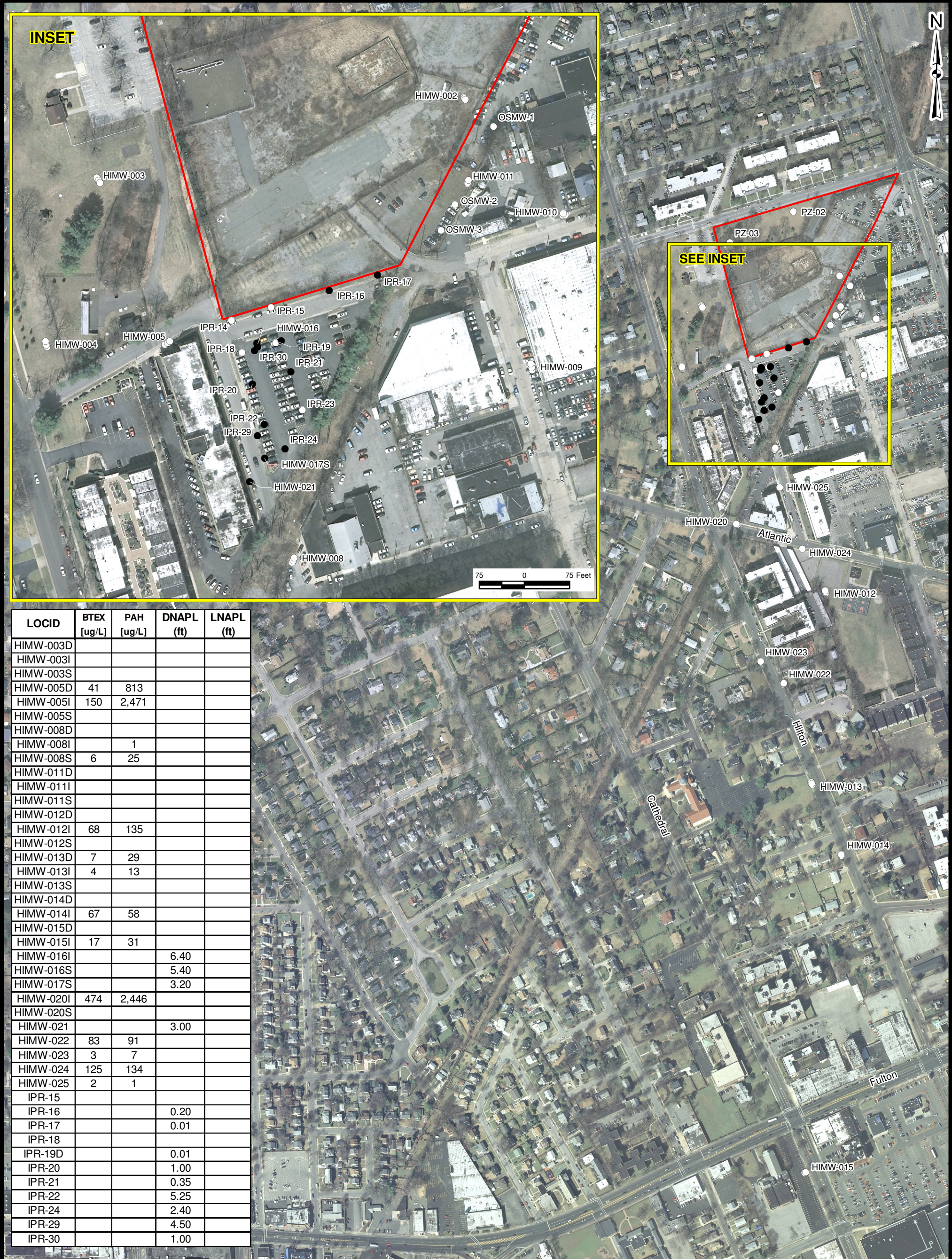
**HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
JUNE 13-14, 2012**

FIGURE 7

LEGEND:

-  MONITORING WELL
-  GROUNDWATER FLOW DIRECTION
-  POTENTIOMETRIC SURFACE CONTOUR
-  FORMER MGP SITE BOUNDARY
- HIMW-12D, 45.46** LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
- NM** NOT MEASURED DURING THIS SAMPLING EVENT





LOCID	BTEX [ug/L]	PAH [ug/L]	DNAPL (ft)	LNAPL (ft)
HIMW-003D				
HIMW-003I				
HIMW-003S				
HIMW-005D	41	813		
HIMW-005I	150	2,471		
HIMW-005S				
HIMW-008D				
HIMW-008I		1		
HIMW-008S	6	25		
HIMW-011D				
HIMW-011I				
HIMW-011S				
HIMW-012D				
HIMW-012I	68	135		
HIMW-012S				
HIMW-013D	7	29		
HIMW-013I	4	13		
HIMW-013S				
HIMW-014D				
HIMW-014I	67	58		
HIMW-015D				
HIMW-015I	17	31		
HIMW-016I			6.40	
HIMW-016S			5.40	
HIMW-017S			3.20	
HIMW-020I	474	2,446		
HIMW-020S				
HIMW-021			3.00	
HIMW-022	83	91		
HIMW-023	3	7		
HIMW-024	125	134		
HIMW-025	2	1		
IPR-15				
IPR-16			0.20	
IPR-17			0.01	
IPR-18				
IPR-19D			0.01	
IPR-20			1.00	
IPR-21			0.35	
IPR-22			5.25	
IPR-24			2.40	
IPR-29			4.50	
IPR-30			1.00	

Legend

- Monitoring Well - Product Detected
- Monitoring Well - Product Not Detected
- Former MGP Site Boundary

Notes:
 BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
 PAH - Polynuclear Aromatic Hydrocarbons
 DNAPL - Dense Non-Aqueous Phase Liquid
 LNAPL - Light Non-Aqueous Phase Liquid
 ug/L - Micrograms per Liter
 ft - Feet of Product Thickness



APPENDIX A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

**APPENDIX A
DATA USABILITY SUMMARY REPORT
SECOND QUARTER 2012**

**HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
VILLAGES OF GARDEN CITY AND HEMPSTEAD
LONG ISLAND, NEW YORK**

**Analyses Performed by:
H2M LABORATORIES, INC.**

Prepared For:

**NATIONAL GRID
175 EAST OLD COUNTRY RD.
HICKSVILLE, NY 11801**

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

JULY 2012

TABLE OF CONTENTS

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I. INTRODUCTION	A-1
II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION	A-1
III. DATA DELIVERABLE COMPLETENESS	A-2
IV. SAMPLE RECEIPT/HOLDING TIMES	A-2
V. NON-CONFORMANCES	A-2
VI. SAMPLE RESULTS AND REPORTING	A-3
VII. SUMMARY	A-3

TABLES (Following Text)

Table A-1	Validated Groundwater Sample Analytical Results
Table A-2	Validated Field QC Sample Analytical Results

APPENDICES (Following Tables)

Attachment A	Validated Form 1's
Attachment B	Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and Development of Data Usability Summary Reports*, May 2010.

This DUSR discusses the usability of the analytical data for twenty-five (25) groundwater samples, two (2) field duplicates, two (2) matrix spike/matrix spike duplicate (MS/MSD) pairs, and four (4) trip blanks collected by URS personnel on June 14-25, 2012. The samples were collected as part of the 2012 second quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The samples were analyzed by H2M Laboratories, Inc. (Melville, NY) for the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – USEPA Method SW8260B, and
- Polynuclear aromatic hydrocarbons (PAHs) – USEPA Method SW8270C.

A limited data validation was performed on the samples in accordance with the guidelines presented in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, August 2008; and*
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 4, August 2008.*

The limited data validation included a review of: completeness of all required deliverables; holding times; quality control (QC) results (i.e., instrument tunes, calibration standards, field/lab blanks, matrix spike recoveries, field duplicate analyses, laboratory control sample recoveries, and surrogate/internal standard recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

The validated analytical results are presented in Tables A-1 and A-2. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Copies of the chain-of-custodies, case narratives, and documentation supporting the qualification of data are presented in Attachment B. Only problems affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

There were no non-conformances noted during the data review, thus, all data are usable as reported.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample size and dilution factors. BTEX and PAH results detected below the quantitation limits were qualified 'J' by the laboratory. The results reported from secondary dilution analyses were qualified 'D' by the laboratory.

Field duplicates were collected from monitoring well locations HIMW-13I and HIMW-20S, which exhibited good field and analytical precision.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, and the data are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: 
Peter R. Fairbanks, Senior Chemist

Date: 7/30/12

Reviewed By: 
George E. Kisluk, Senior Chemist

Date: 7-30-12

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The sample results are reported from a separate secondary dilution analysis.
- NJ – The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

**TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE**

Location ID			HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-005I
Sample ID			HIMW-03D	HIMW-03I	HIMW-03S	HIMW-05D	HIMW-05I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/12	06/20/12	06/20/12	06/21/12	06/20/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	1 U	7	5
Ethylbenzene	UG/L	-	1 U	1 U	1 U	1 U	4
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1
Xylene (total)	UG/L	-	1 U	1 U	1 U	34	140
Total BTEX	UG/L	100	ND	ND	ND	41	150
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	140 DJ	430 DJ
Acenaphthene	UG/L	-	10 U	10 U	10 U	3 J	14
Acenaphthylene	UG/L	-	10 U	10 U	10 U	44	180 DJ
Anthracene	UG/L	-	10 U	10 U	10 U	10 U	2 J
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	10 U	6 J	28
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	620 D	1,800 D
Phenanthrene	UG/L	-	10 U	10 U	10 U	10 U	17
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	813	2,471

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By: PRF 07/25/12; Checked By: *[Signature]*

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-005S	HIMW-008D	HIMW-008I	HIMW-008S	HIMW-012D
Sample ID			HIMW-05S	HIMW-08D	HIMW-08I	HIMW-08S	HIMW-12D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/20/12	06/19/12	06/19/12	06/19/12	06/18/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	1 U	2	1 U
Ethylbenzene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	1 U	4	1 U
Total BTEX	UG/L	100	ND	ND	ND	6	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	3 J	10 U
Acenaphthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	-	10 U	10 U	10 U	5 J	10 U
Anthracene	UG/L	-	10 U	10 U	10 U	2 J	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	1 J	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	13	10 U
Phenanthrene	UG/L	-	10 U	10 U	10 U	1 J	10 U
Pyrene	UG/L	-	10 U	10 U	1 J	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	1	25	ND

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 07/25/12_; Checked By duf tpd/a

Detection Limits shown are PQL

**TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE**

Location ID			HIMW-012I	HIMW-012S	HIMW-013D	HIMW-013I	HIMW-013I
Sample ID			HIMW-12I	HIMW-12S	HIMW-13D	DUP-061512	HIMW-13I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/18/12	06/18/12	06/15/12	06/15/12	06/15/12
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatile Organic Compounds							
Benzene	UG/L	-	62	1 U	5	5	4
Ethylbenzene	UG/L	-	2	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	4	1 U	2	1 U	1 U
Total BTEX	UG/L	100	68	ND	7	5	4
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	46	10 U	9 J	10 U	10 U
Acenaphthylene	UG/L	-	45	10 U	20	5 J	6 J
Anthracene	UG/L	-	1 J	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	28	10 U	10 U	2 J	2 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	3 J	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	-	12	10 U	10 U	5 J	5 J
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	135	ND	29	12	13

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 07/25/12_; Checked By *[Signature]* 7/26/12

Detection Limits shown are PQL

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-013S	HIMW-014D	HIMW-014I	HIMW-015D	HIMW-015I
Sample ID			HIMW-13S	HIMW-14D	HIMW-14I	HIMW-15D	HIMW-15I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/14/12	06/15/12	06/15/12	06/14/12	06/14/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	27	1 U	15
Ethylbenzene	UG/L	-	1 U	1 U	25	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	15	1 U	2
Total BTEX	UG/L	100	ND	ND	67	ND	17
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U	20	10 U	6 J
Acenaphthylene	UG/L	-	10 U	10 U	22	10 U	22
Anthracene	UG/L	-	10 U	10 U	1 J	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	7 J	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	1 J	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U	7 J	10 U	3 J
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	58	ND	31

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 07/25/12_; Checked By *Quik Tapia*

Detection Limits shown are PQL

**TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE**

Location ID			HIMW-020I	HIMW-020S	HIMW-020S	HIMW-022	HIMW-023
Sample ID			HIMW-20I	DUP062112	HIMW-20S	HIMW-22	HIMW-23
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/21/12	06/21/12	06/21/12	06/25/12	06/25/12
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Benzene	UG/L	-	47	1 U	1 U	50	1
Ethylbenzene	UG/L	-	19	1 U	1 U	1 U	1 U
Toluene	UG/L	-	48	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	360 D	1 U	1 U	33	2
Total BTEX	UG/L	100	474	ND	ND	83	3
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	350 DJ	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	15	10 U	10 U	2 J	1 J
Acenaphthylene	UG/L	-	220 DJ	10 U	10 U	22	5 J
Anthracene	UG/L	-	4 J	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	28	10 U	10 U	1 J	1 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	1,800 D	10 U	10 U	63	10 U
Phenanthrene	UG/L	-	29	10 U	10 U	3 J	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	2,446	ND	ND	91	7

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 07/25/12_; Checked By 

Detection Limits shown are PQL

**TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE**

Location ID			HIMW-024	HIMW-025
Sample ID			HIMW-24	HIMW-25
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			06/18/12	06/19/12
Parameter	Units	Criteria*		
Volatile Organic Compounds				
Benzene	UG/L	-	68	1 U
Ethylbenzene	UG/L	-	8	1 U
Toluene	UG/L	-	3	1 U
Xylene (total)	UG/L	-	46	2
Total BTEX	UG/L	100	125	2
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	10 U	10 U
Acenaphthene	UG/L	-	10	10 U
Acenaphthylene	UG/L	-	15	10 U
Anthracene	UG/L	-	1 J	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U
Chrysene	UG/L	-	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U
Fluorene	UG/L	-	2 J	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U
Naphthalene	UG/L	-	98 D	1 J
Phenanthrene	UG/L	-	8 J	10 U
Pyrene	UG/L	-	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	134	1

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis. ND - Not detected.

Made By_PRF 07/25/12_; Checked By: *[Signature]*

Detection Limits shown are PQL

**TABLE A-2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE**

Location ID			FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID			TB-061412	TB-061812	TB-062012	TB-062512
Matrix			Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-	-
Date Sampled			06/14/12	06/18/12	06/21/12	06/25/12
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Benzene	UG/L	-	1 U	1 U	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	1 U	1 U
Total BTEX	UG/L	100	ND	ND	ND	ND

*Criteria- Groundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

D - Result reported from a secondary dilution analysis.

ND - Not detected.

Made By_PRF 07/24/12_; Checked By *[Signature]*

Detection Limits shown are PQL

ATTACHMENT A
VALIDATED FORM 1'S

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
HIMW-03D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206934-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15312.

Level: (low/med) LOW Date Received: 06/21/12

% Moisture: not dec. Date Analyzed: 06/22/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S35

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206934-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15313.
 Level: (low/med) LOW Date Received: 06/21/12
 % Moisture: not dec. Date Analyzed: 06/22/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206934-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15320.

Level: (low/med) LOW Date Received: 06/21/12

% Moisture: not dec. Date Analyzed: 06/26/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S37

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206934-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15321.
 Level: (low/med) LOW Date Received: 06/21/12
 % Moisture: not dec. Date Analyzed: 06/26/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	7	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	34	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206934-005A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15322.

Level: (low/med)

LOW

Date Received: 06/21/12

% Moisture: not dec.

Date Analyzed: 06/26/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____

(μ L)

Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	5	
108-88-3	Toluene	1	
100-41-4	Ethylbenzene	4	
1330-20-7	Xylene (total)	140	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206934-006A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15323.

Level: (low/med)

LOW

Date Received: 06/21/12

% Moisture: not dec.

Date Analyzed: 06/26/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206812-004A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15308.

Level: (low/med)

LOW

Date Received: 06/19/12

% Moisture: not dec.

Date Analyzed: 06/22/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-081

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206812-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15307.
 Level: (low/med) LOW Date Received: 06/19/12
 % Moisture: not dec. Date Analyzed: 06/22/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S31

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206812-002A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15304.

Level: (low/med)

LOW

Date Received: 06/19/12

% Moisture: not dec.

Date Analyzed: 06/22/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____

(μ L)

Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	2	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	4	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206801-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15278.

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: not dec. Date Analyzed: 06/21/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS152 S33

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206801-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15277.

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: not dec. Date Analyzed: 06/21/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	62	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene (total)	4	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152
 Matrix: (soil/water) WATER Lab Sample ID: 1206801-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15276.
 Level: (low/med) LOW Date Received: 06/19/12
 % Moisture: not dec. Date Analyzed: 06/21/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15237.

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: not dec. Date Analyzed: 06/19/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:
(µg/L or µg/Kg) UG/L

CAS NO.	COMPOUND	Q
71-43-2	Benzene	5
108-88-3	Toluene	1 U
100-41-4	Ethylbenzene	1 U
1330-20-7	Xylene (total)	2

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15238.

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: not dec. Date Analyzed: 06/19/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	4	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-061512

Lab Name: H2M LABS INC

Contract: _____

(HIMW-13I)

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS152

Matrix: (soil/water)

WATER

Lab Sample ID: 1206695-001A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15236.

Level: (low/med)

LOW

Date Received: 06/15/12

% Moisture: not dec.

Date Analyzed: 06/19/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	5	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15239.

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: not dec. Date Analyzed: 06/19/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS152 S25

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15240.

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: not dec. Date Analyzed: 06/19/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152
 Matrix: (soil/water) WATER Lab Sample ID: 1206695-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15241.
 Level: (low/med) LOW Date Received: 06/15/12
 % Moisture: not dec. Date Analyzed: 06/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	27	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	25	
1330-20-7	Xylene (total)	15	

KEY-URS152 S27

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15242.

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: not dec. Date Analyzed: 06/19/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152
 Matrix: (soil/water) WATER Lab Sample ID: 1206695-008A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15243.
 Level: (low/med) LOW Date Received: 06/15/12
 % Moisture: not dec. Date Analyzed: 06/19/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	15	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206934-007A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15318.
 Level: (low/med) LOW Date Received: 06/21/12
 % Moisture: not dec. Date Analyzed: 06/26/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	47	
108-88-3	Toluene	48	
100-41-4	Ethylbenzene	19	
1330-20-7	Xylene (total)	<u>360 350</u>	<u>E.D</u>

7/24/12

LA
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206934-007ADL

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15329.

Level: (low/med)

LOW

Date Received: 06/21/12

% Moisture: not dec.

Date Analyzed: 06/26/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 2.00

Soil Extract Volume: _____

(μ L)

Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	46	D
108-88-3	Toluene	46	D
100-41-4	Ethylbenzene	18	D
1330-20-7	Xylene (total)	360	D

7/24/12
M

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206934-008A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15324.

Level: (low/med)

LOW

Date Received: 06/21/12

% Moisture: not dec.

Date Analyzed: 06/26/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S43

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP062112

(HIMW-0205)

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206934-009A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15319.

Level: (low/med)

LOW

Date Received: 06/21/12

% Moisture: not dec.

Date Analyzed: 06/26/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S44

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206A16-001A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15327.

Level: (low/med)

LOW

Date Received: 06/25/12

% Moisture: not dec.

Date Analyzed: 06/26/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	50	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	33	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-23

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206A16-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15328.
 Level: (low/med) LOW Date Received: 06/25/12
 % Moisture: not dec. Date Analyzed: 06/26/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

KEY-URS153 S47

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
HIMW-24

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206812-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15306.

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: not dec. Date Analyzed: 06/22/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	68	
108-88-3	Toluene	3	
100-41-4	Ethylbenzene	8	
1330-20-7	Xylene (total)	46	

KEY-URS153 S29

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-25

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water)

WATER

Lab Sample ID: 1206812-005A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 12\G15309.

Level: (low/med)

LOW

Date Received: 06/19/12

% Moisture: not dec.

Date Analyzed: 06/22/12

GC Column: Rtx-624

ID: .18 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-061412

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15244.

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: not dec. Date Analyzed: 06/19/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-061812

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS SAS No.: _____SDG No.: KEY-URS153

Matrix: (soil/water)

WATERLab Sample ID: 1206812-006ASample wt/vol: 5(g/mL) MLLab File ID: 12\G15305.

Level: (low/med)

LOWDate Received: 06/19/12

% Moisture: not dec.

Date Analyzed: 06/22/12GC Column: Rtx-624ID: .18 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-062012

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206934-010A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15325.
 Level: (low/med) LOW Date Received: 06/21/12
 % Moisture: not dec. Date Analyzed: 06/26/12
 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S45

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-062512

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206A16-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G15326.

Level: (low/med) LOW Date Received: 06/25/12

% Moisture: not dec. Date Analyzed: 06/26/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS153 S48

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206934-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10143.D

Level: (low/med) LOW Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/29/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206934-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10144.D

Level: (low/med) LOW Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/29/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-003B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10145.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 06/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-004B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10146.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 06/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	620 530	ED
91-57-6	2-Methylnaphthalene	140 120	ED
208-96-8	Acenaphthylene	44	
83-32-9	Acenaphthene	3	J
86-73-7	Fluorene	6	J
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/24/12
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05DDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-004BDL

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 2\R10190.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 07/03/12

Injection Volume: 2 (μL)

Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) UG/L	Q
91-20-3	Naphthalene	620	D
91-57-6	2-Methylnaphthalene	140	DJ
208-96-8	Acenaphthylene	50	DJ
83-32-9	Acenaphthene	200	U
86-73-7	Fluorene	200	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
56-55-3	Benzo (a) anthracene	200	U
218-01-9	Chrysene	200	U
205-99-2	Benzo (b) fluoranthene	200	U
207-08-9	Benzo (k) fluoranthene	200	U
50-32-8	Benzo (a) pyrene	200	U
193-39-5	Indeno (1,2,3-cd) pyrene	200	U
53-70-3	Dibenzo (a,h) anthracene	200	U
191-24-2	Benzo (g,h,i) perylene	200	U

(1) Cannot be separated from Diphenylamine

7/24/12

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-005B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10147.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 06/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	1800 1500	E-D
91-57-6	2-Methylnaphthalene	430 380	E-DJ
208-96-8	Acenaphthylene	180 160	E-DJ
83-32-9	Acenaphthene	14	
86-73-7	Fluorene	28	
85-01-8	Phenanthrene	17	
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/2/12
2

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153Matrix: (soil/water) WATERLab Sample ID: 1206934-005BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 2\R10191.DLevel: (low/med) LOWDate Received: 06/21/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/22/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 07/03/12Injection Volume: 2 (μ L)Dilution Factor: 50.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	1800	D
91-57-6	2-Methylnaphthalene	430	DJ
208-96-8	Acenaphthylene	180	DJ
83-32-9	Acenaphthene	500	U
86-73-7	Fluorene	500	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
56-55-3	Benzo (a) anthracene	500	U
218-01-9	Chrysene	500	U
205-99-2	Benzo (b) fluoranthene	500	U
207-08-9	Benzo (k) fluoranthene	500	U
50-32-8	Benzo (a) pyrene	500	U
193-39-5	Indeno (1,2,3-cd) pyrene	500	U
53-70-3	Dibenzo (a,h) anthracene	500	U
191-24-2	Benzo (g,h,i) perylene	500	U

(1) Cannot be separated from Diphenylamine

7/24/12
Z

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-006B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10148.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 06/29/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206812-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10081.D

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/21/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/22/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206812-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10080.D

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/21/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/22/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	1	J
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-08S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153Matrix: (soil/water) WATERLab Sample ID: 1206812-002BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R10139.DLevel: (low/med) LOWDate Received: 06/19/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/21/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 06/29/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	3	J
208-96-8	Acenaphthylene	5	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	1	J
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	1	J

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152Matrix: (soil/water) WATERLab Sample ID: 1206801-003BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R10046.DLevel: (low/med) LOWDate Received: 06/19/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/20/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 06/21/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152Matrix: (soil/water) WATERLab Sample ID: 1206801-002BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\R10045.DLevel: (low/med) LOWDate Received: 06/19/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/20/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 06/21/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	3	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	45	
83-32-9	Acenaphthene	46	
86-73-7	Fluorene	28	
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206801-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10042.D

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/20/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/21/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:
(μ g/L or μ g/Kg) UG/L Q

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152Matrix: (soil/water) WATERLab Sample ID: 1206695-002BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N51828.DLevel: (low/med) LOWDate Received: 06/15/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/18/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 06/21/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	20	
83-32-9	Acenaphthene	9	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152Matrix: (soil/water) WATERLab Sample ID: 1206695-003BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N51829.DLevel: (low/med) LOWDate Received: 06/15/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/18/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 06/21/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	6	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	2	J
85-01-8	Phenanthrene	5	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-061512

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2MCase No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152Matrix: (soil/water) WATERLab Sample ID: 1206695-001BSample wt/vol: 1000 (g/mL) mlLab File ID: 2\N51827.DLevel: (low/med) LOWDate Received: 06/15/12% Moisture: Decanted: (Y/N) NDate Extracted: 06/18/12Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 06/21/12Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	5	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	2	J
85-01-8	Phenanthrene	5	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152

Matrix: (soil/water) WATER

Lab Sample ID: 1206695-004B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\N51830.D

Level: (low/med) LOW

Date Received: 06/15/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/18/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 06/21/12

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1, 2, 3 - cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152

Matrix: (soil/water) WATER Lab Sample ID: 1206695-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N51831.D

Level: (low/med) LOW Date Received: 06/15/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/18/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/21/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS152

Matrix: (soil/water) WATER

Lab Sample ID: 1206695-006B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\N51834.D

Level: (low/med) LOW

Date Received: 06/15/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/19/12

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 06/21/12

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) UG/L	Q
91-20-3	Naphthalene	1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	22	
83-32-9	Acenaphthene	20	
86-73-7	Fluorene	7	J
85-01-8	Phenanthrene	7	J
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152
 Matrix: (soil/water) WATER Lab Sample ID: 1206695-007B
 Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N51835.D
 Level: (low/med) LOW Date Received: 06/15/12
 % Moisture: Decanted: (Y/N) N Date Extracted: 06/19/12
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/21/12
 Injection Volume: 2 (µL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS152
 Matrix: (soil/water) WATER Lab Sample ID: 1206695-008B
 Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N51836.D
 Level: (low/med) LOW Date Received: 06/15/12
 % Moisture: Decanted: (Y/N) N Date Extracted: 06/19/12
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/21/12
 Injection Volume: 2 (µL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	22	
83-32-9	Acenaphthene	6	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	3	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-007B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10192.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 07/03/12

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
91-20-3	Naphthalene	1500 1800		E D
91-57-6	2-Methylnaphthalene	300 350		E D J
208-96-8	Acenaphthylene	190 220		E D J
83-32-9	Acenaphthene	15		
86-73-7	Fluorene	28		
85-01-8	Phenanthrene	29		
120-12-7	Anthracene	4		J
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
56-55-3	Benzo (a) anthracene	10		U
218-01-9	Chrysene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
50-32-8	Benzo (a) pyrene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
53-70-3	Dibenzo (a,h) anthracene	10		U
191-24-2	Benzo (g,h,i) perylene	10		U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20IDL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-007BDL

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 2\R10206.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 07/03/12

Injection Volume: 2 (µL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
91-20-3	Naphthalene	1800		D
91-57-6	2-Methylnaphthalene	350		DJ
208-96-8	Acenaphthylene	220		DJ
83-32-9	Acenaphthene	500		U
86-73-7	Fluorene	500		U
85-01-8	Phenanthrene	500		U
120-12-7	Anthracene	500		U
206-44-0	Fluoranthene	500		U
129-00-0	Pyrene	500		U
56-55-3	Benzo(a)anthracene	500		U
218-01-9	Chrysene	500		U
205-99-2	Benzo(b)fluoranthene	500		U
207-08-9	Benzo(k)fluoranthene	500		U
50-32-8	Benzo(a)pyrene	500		U
193-39-5	Indeno(1,2,3-cd)pyrene	500		U
53-70-3	Dibenzo(a,h)anthracene	500		U
191-24-2	Benzo(g,h,i)perylene	500		U

(1) Cannot be separated from Diphenylamine

7/24/12
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206934-008B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10193.D

Level: (low/med) LOW

Date Received: 06/21/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/22/12

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 07/03/12

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP062112

Lab Name: H2M LABS INC Contract: _____
 Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153
 Matrix: (soil/water) WATER Lab Sample ID: 1206934-009B
 Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10194.D
 Level: (low/med) LOW Date Received: 06/21/12
 % Moisture: Decanted: (Y/N) N Date Extracted: 06/22/12
 Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 07/03/12
 Injection Volume: 2 (μ L) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206A16-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10197.D

Level: (low/med) LOW Date Received: 06/25/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/26/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 07/03/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	63	
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	22	
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	1	J
85-01-8	Phenanthrene	3	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-23

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206A16-002B

Sample wt/vol: 1000 (g/mL) ml

Lab File ID: 2\R10198.D

Level: (low/med) LOW

Date Received: 06/25/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/26/12

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 07/03/12

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
91-20-3	Naphthalene	10		U
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	5		J
83-32-9	Acenaphthene	1		J
86-73-7	Fluorene	1		J
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
56-55-3	Benzo(a)anthracene	10		U
218-01-9	Chrysene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
50-32-8	Benzo(a)pyrene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
53-70-3	Dibenzo(a,h)anthracene	10		U
191-24-2	Benzo(g,h,i)perylene	10		U

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-24

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206812-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10078.D

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/21/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/22/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) UG/L	Q
91-20-3	Naphthalene	83 98	B D
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	2	J
85-01-8	Phenanthrene	8	J
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1, 2, 3 -cd) pyrene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U

(1) Cannot be separated from Diphenylamine

7/24/12
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-24DL

Lab Name: H2M LABS INC

Contract: _____

Lab Code: H2M

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS153

Matrix: (soil/water) WATER

Lab Sample ID: 1206812-001BDL

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 2\R10140.D

Level: (low/med) LOW

Date Received: 06/19/12

% Moisture: Decanted: (Y/N) N

Date Extracted: 06/21/12

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 06/29/12

Injection Volume: 2 (μL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg)	UG/L	Q
91-20-3	Naphthalene	98		D
91-57-6	2-Methylnaphthalene	20		U
208-96-8	Acenaphthylene	17		DJ
83-32-9	Acenaphthene	12		DJ
86-73-7	Fluorene	1		J
85-01-8	Phenanthrene	10		DJ
120-12-7	Anthracene	20		U
206-44-0	Fluoranthene	20		U
129-00-0	Pyrene	20		U
56-55-3	Benzo (a) anthracene	20		U
218-01-9	Chrysene	20		U
205-99-2	Benzo (b) fluoranthene	20		U
207-08-9	Benzo (k) fluoranthene	20		U
50-32-8	Benzo (a) pyrene	20		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	20		U
53-70-3	Dibenzo (a, h) anthracene	20		U
191-24-2	Benzo (g, h, i) perylene	20		U

(1) Cannot be separated from Diphenylamine

7/24/12
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-25

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS153

Matrix: (soil/water) WATER Lab Sample ID: 1206812-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R10082.D

Level: (low/med) LOW Date Received: 06/19/12

% Moisture: Decanted: (Y/N) N Date Extracted: 06/21/12

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 06/22/12

Injection Volume: 2 (μ L) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg)	UG/L	Q
91-20-3	Naphthalene	1		J
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	10		U
83-32-9	Acenaphthene	10		U
86-73-7	Fluorene	10		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
56-55-3	Benzo (a) anthracene	10		U
218-01-9	Chrysene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
50-32-8	Benzo (a) pyrene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
53-70-3	Dibenzo (a, h) anthracene	10		U
191-24-2	Benzo (g, h, i) perylene	10		U

(1) Cannot be separated from Diphenylamine

ATTACHMENT B
SUPPORT DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5078

Tel: (631) 694-3040 Fax: (631) 420-8436

39998 EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER NATIONAL GRID - HEMPSTEAD / 11176098		CLIENT: KEY-URS		H2M SDG NO: KEY-URS152		
SAMPLERS: (signature)/Client <i>J. Crespo, N. Olivo / URS</i>		NOTES: Please call Peter Fairbanks with any questions		Project Contact: PETER FAIRBANKS Phone Number: 716 856 5636 PIS/Quote #		
DELIVERABLES:		Sample Container Description ↑		Please call Peter Fairbanks with any questions		
TURNAROUND TIME: <i>Standard</i>		ANALYSIS REQUESTED		LAB I.D. NO.		
DATE	TIME	MATRIX	FIELD I.D.	ORGANIC	INORG.	REMARKS:
6/14/12	-	A9	T8-061412	X	2	1206095-007
↓	1035	↓	HIMW-15I	X	4	008
↓	1250	↓	HIMW-15D	X	4	007
↓	1440	↓	HIMW-13S	X	4	004
6/15/12	0750	↓	HIMW-13I	X	4	003
↓	0700	↓	DUP-061512	X	4	001
↓	0940	↓	HIMW-13D	X	4	002
↓	1120	↓	HIMW-14I	X	4	006
↓	1230	↓	HIMW-14D	X	4	005
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	LABORATORY USE ONLY		
Received by: (Signature) <i>[Signature]</i>		6/15/12	1240	Samples were: 1. Shipped <input type="checkbox"/> or Hand Delivered <input checked="" type="checkbox"/> Airbill# _____ 2. Ambient or Chilled, Temp <i>6.3</i> 3. Received in good condition: Y or N 4. Properly preserved: Y or N		
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Discrepancies Between Sample Labels and COC Record? Y or N		
Received by: (Signature) <i>[Signature]</i>		6/15/12	1403	Explain:		
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	COC TAGS WAS: 1. Present on outer package: Y or N 2. Unbroken on outer package: Y or N 3. COC record present & complete upon sample receipt: Y or N		
Received by: (Signature) <i>[Signature]</i>		Date	Time			

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
 Tel: (631) 694-3040 Fax: (631) 420-8436

39999 EXTERNAL CHAIN OF CUSTODY

CLIENT: H2M SDG NO: KEY-URS 152 153

PROJECT NAME/NUMBER: NATIONAL GRID - HEMPSTEAD / 1176098
 SAMPLERS: (signature)/Client: J. Crespo, N. Oliver / URS
 DELIVERABLES:
 TURNAROUND TIME: STANDARD

Sample Container Description: BTEX 8260B PAH 8270C
 Total No. of Containers: 4

NOTES: Please call Peter Fairbanks with any questions
 Project Contact: Peter Fairbanks
 Phone Number: 716 856 5636
 PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	ANALYSIS REQUESTED			LAB I.D. NO.	REMARKS:
				ORGANIC	INORG.	Metal		
6/19/12	0830	A9	HIMW-12S	X			1206801-001	KEY-URS 152
	0830		HIMW-12S MS	X				
	0830		HIMW-12S MSD	X				
	1010		HIMW-12I	X				
	1135		HIMW-12D	X				
	1305		HIMW-24	X				
6/19/12	0745		HIMW-08S	X				
	0910		HIMW-08I	X				
	1045		HIMW-08D	X				
	1220		HIMW-25	X				
				X			1206812-001	KEY-URS 153
				X			-002	
				X			-003	
				X			-004	
				X			-005	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>N. Oliver</i>	6/19/12	1415	<i>S. J. ...</i>	6-19-12	1415
<i>S. J. ...</i>	6-19-12	1450	<i>M. ...</i>	6-19-12	1450

LABORATORY USE ONLY
 Discrepancies Between Sample Labels and COC Record? Y or N
 Explain:
 Samples were:
 1. Shipped off-Hand Delivered Airbill#
 2. Ambient of chilled Temp. 3.9°C, 1-2°C
 3. Received in good condition: Y N
 4. Properly preserved: Y N
 COC Trace was:
 1. Present on outer package: Y N
 2. Unbroken on outer package: Y N
 3. COC record present & complete upon sample receipt: Y N

WHITE COPY - ORIGINAL
 KEY-CORP-153 S3

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
 Tel: (631) 694-3040 Fax: (631) 420-8436

40000 EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER NATIONAL GRID-HEMPSTEAD / 1176098		CLIENT: KEY-URS		H2M SDG NO: KEY-URS 153		
SAMPLERS: (signature)/Client D. Crespo / <i>W. [unclear]</i> / URS		NOTES: Please call Peter Fairbanks with any questions		Project Contact: Peter Fairbanks Phone Number: 716 856-5636 PIS/Quote #		
DELIVERABLES:		Sample Container Description Brex 8260B PAT 8270C				
TURNAROUND TIME: STANDARD		ANALYSIS REQUESTED		LAB I.D. NO.		
DATE	TIME	MATRIX	FIELD I.D.	ORGANIC	INORG.	REMARKS:
6/21/12	0720	A-g	HIMW-055	X	3	12.D.69.34 000
	0855		HIMW-05I	X		005
	1010		HIMW-03S	X		003
	1140		HIMW-03I	X		002
			TB-062012	X		010
6/21/12	0805	A-g	HIMW-05D	X		004
	0950		HIMW-03D	X		001
	1000		DVP 062112	X		009
	1125		HIMW-20S	X		008
	1250		HIMW-20I	X		007
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	LABORATORY USE ONLY		
Relinquished by: (Signature) <i>[Signature]</i>		6/21/12	1330	Discrepancies Between Sample Labels and COC Record? Y or N		
Relinquished by: (Signature) <i>[Signature]</i>		6/21/12	1500	Explain:		
Relinquished by: (Signature)		Date	Time	Samples were: 1. Shipped or Hand Delivered: <input checked="" type="checkbox"/> 2. Ambient or chilled, Temp: <i>31.1 C</i> 3. Received in good condition: <input type="checkbox"/> or N 4. Properly preserved: <input checked="" type="checkbox"/> or N		
Relinquished by: (Signature)		Date	Time	COC Tags were: 1. Present on outer package: Y or N 2. Unbroken on outer package: Y or N 3. COC record present & complete upon sample receipt: <input checked="" type="checkbox"/> or N		

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 6/15/12 & 6/19/12
SDG #: KEY-URS152**

For Sample(s):

DUP-061512 HIMW-15D
HIMW-13D HIMW-15I
HIMW-13I TB-061412
HIMW-13S HIMW-12S
HIMW-14D HIMW-12I
HIMW-14I HIMW-12D

The above sample(s) was/were analyzed for a select list of volatile organic analytes (BTEX) by EPA method 8260B.

All Q.C. data and calibrations met the requirements of the method, unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-12S was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: July 12, 2012

*  *
* *

Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS SAMPLES RECEIVED: 6/15/12 & 6/19/12 SDG #: KEY-URS152

For Sample(s):

DUP-061512 HIMW-15D
HIMW-13D HIMW-15I
HIMW-13I HIMW-12S
HIMW-13S HIMW-12I
HIMW-14D HIMW-12D
HIMW-14I

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C.

All Q.C. data and calibrations met the requirements of the method unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-12S was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

Benzy(k)fluoranthene had a %RSD greater than 15% and a quadratic regression was applied.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: July 12, 2012

*  *
* *

Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS SAMPLES RECEIVED: 6/19/12, 6/21/12 & 6/25/12 SDG #: KEY-URS153

For Sample(s):

HIMW-24 HIMW-03I DUP062112
HIMW-08S HIMW-03S TB-062012
HIMW-08I HIMW-05D HIMW-22
HIMW-08D HIMW-05I HIMW-23
HIMW-25 HIMW-05S TB-062512
TB-061812 HIMW-20I
HIMW-03D HIMW-20S

The above sample(s) was/were analyzed for a select list of volatile organic analytes (BTEX) by EPA method 8260B.

All Q.C. data and calibrations met the requirements of the method, unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-25 was analyzed as the matrix spike/matrix spike duplicate. The matrix spike/matrix spike duplicate sample was spiked to 100 ug/L. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

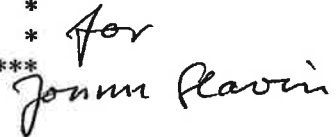
Sample HIMW-20I was reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: July 23, 2012

*  *

Joann M. Slavin
Senior Vice President

* for
 Joann Slavin

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 6/19/12, 6/21/12 & 6/25/12
SDG #: KEY-URS153

For Sample(s):

HIMW-24	HIMW-03I	HIMW-20I
HIMW-08S	HIMW-03S	HIMW-20S
HIMW-08I	HIMW-05D	DUP062112
HIMW-08D	HIMW-05I	HIMW-22
HIMW-25	HIMW-05S	HIMW-23
HIMW-03D		

The above water sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C.

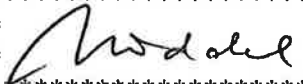
All Q. C. data and calibrations met the requirements of the method unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-25 was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

Benzo(k)fluoranthene had a %RSD greater than 15%, and a quadratic function was applied for the initial calibration. % D in the continuous calibration check (CCV) on 7/3/12 for the analyte exceeded 15%. Since the analyte was not found in any of the analyses on that date, no data are affected.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: July 16, 2012

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* *****

Ursula Middel
Technical Manager

APPENDIX B

**OXYGEN SYSTEM OPERATION & MAINTENANCE
MEASUREMENTS**

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	4/6/2012
Time:	1318
Weather:	Sunny
Outdoor Temperature:	~75° F
Inside Trailer Temperature:	~70° F
Performed By:	Mike Ryan

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	2,919.0			Compressor Tank *	115		(psi)
Feed Air Pressure *	110	(psi)		(readings below are made from control panel)			
Cycle Pressure *	60	(psi)		Delivery Air	122		(psi)
Oxygen Receiver Pressure *	100	(psi)		Element Outlet Temperature	169		(oF)
				Running Hours	3,493		(hours)
				Loading Hours	2,221		(hours)
Oxygen Purity	96.5	(percent)					
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #1											
Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	35	32	OW-1-5S	67.3	30	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	40	30	OW-1-6S	67.0	35	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	40	31	OW-1-7S	66.9	40	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	45	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	35	30	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	35	13	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	30	OW-1-11S	54.1	45	14	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	50	15	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/6/2012

O₂ Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	35	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	30	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	45	14	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	3-	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	35	14
OW-1-18S	50.2	55	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	35	14
OW-1-19S	49.7	65	13	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	35	14
OW-1-20S	49.3	40	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	40	14

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	35	28	OW-1-29S	48.5	35	13	OW-1-33D	83.2	30	29
OW-1-26D	78.1	50	29	OW-1-30S	48.8	35	13	OW-1-34D	84.5	40	30
OW-1-27D	77.9	45	30	OW-1-31S	49.3	30	13	OW-1-35D	85.0	70	30
OW-1-28D	78.0	30	28	OW-1-32S	49.3	40	13	OW-1-36D	85.0	30	30
OW-1-29D	78.4	35	27	OW-1-33S	49.7	30	13	OW-1-37D	84.0	35	29
OW-1-30D	79.0	55	33	OW-1-34S	50.1	35	13	OW-1-38D	82.0	45	28
OW-1-31D	80.5	50	28	OW-1-35S	50.3	40	13	OW-1-39D	78.0	35	28
OW-1-32D	81.6	40	28	OW-1-36S	50.3	30	13	OW-1-40D	76.0	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 2/9/1900

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

O ₂ Injection System #1											
Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	40	13	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	35	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	30	19
OW-1-39S	50.7	50	14	OW-1-45	65.7	40	19	OW-1-51R	60.6	40	18
OW-1-40S	51.1	40	13	OW-1-46	64.3	45	18	OW-1-52	59.3	60	14
OW-1-41S	51.5	20	12	OW-1-47	63.4	35	17	OW-1-53	60.0	35	17
OW-1-42S	51.3	40	13	OW-1-48	62.5	40	18	OW-1-54	60.0	40	17
				OW-1-49	61.5	30	17				
				OW-1-50	61.0	40	18				

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

O ₂ Injection System #2												
Monitoring Points Log					Monitoring Points Log					Monitoring Points Log		
ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	24.80	22.9	2.24	37.5	MP-1-5	24.46	21.7	1.67	10.3	MP-1-1D	7.21	11.85
MP-1-1S	24.95	40.0	2.97	18	MP-1-6	16.93	25.7	2.81	1.4	MP-1-2D	7.97	12.12
MP-1-2D	18.97	25.4	2.88	11	MP-1-7	20.20	20.9	1.47	2.4	MP-1-3D	3.84	11.02
MP-1-2S	19.40	40.0	4.52	7.5	MP-1-8	21.25	22.4	2.79	2.2	MP-1-4D	11.04	16.52
MP-1-3D	17.15	20.9	3.09	35								
MP-1-3S	17.14	40.0	4.56	227.9								
MP-1-4D	19.88	29.2	2.63	3.0								
MP-1-4S	19.68	38.2	3.64	2.7								

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	4/19/2020
Time:	1307
Weather:	Sunny
Outdoor Temperature:	~78° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	3,016.1			Compressor Tank *	105		(psi)
Feed Air Pressure *	110	(psi)		(readings below are made from control panel)			
Cycle Pressure *	65	(psi)		Delivery Air	113		(psi)
Oxygen Receiver Pressure *	100	(psi)		Element Outlet Temperature	169		(oF)
Oxygen Purity	98.1	(percent)		Running Hours	3,602		(hours)
				Loading Hours	2,290		(hours)
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #1											
Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	40	32	OW-1-5S	67.3	25	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	35	30	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	35	31	OW-1-7S	66.9	40	17	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	40	31	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	30	30	OW-1-9S	66.0	45	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	30	13	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	30	OW-1-11S	54.1	30	14	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	14	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: <u>4/19/2020</u>											
O ₂ Injection System #1											
Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	35	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	30	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	35	13
OW-1-18S	50.2	40	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	25	13
OW-1-19S	49.7	40	13	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	13
OW-1-20S	49.3	45	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	35	14
Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.											
O ₂ Injection System #1											
Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	27	OW-1-29S	48.5	25	13	OW-1-33D	83.2	40	29
OW-1-26D	78.1	50	30	OW-1-30S	48.8	25	13	OW-1-34D	84.5	35	30
OW-1-27D	77.9	30	29	OW-1-31S	49.3	30	13	OW-1-35D	85.0	70	29
OW-1-28D	78.0	35	28	OW-1-32S	49.3	40	13	OW-1-36D	85.0	25	30
OW-1-29D	78.4	40	27	OW-1-33S	49.7	30	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	60	33	OW-1-34S	50.1	25	13	OW-1-38D	82.0	90	30
OW-1-31D	80.5	30	28	OW-1-35S	50.3	20	13	OW-1-39D	78.0	70	28
OW-1-32D	81.6	25	28	OW-1-36S	50.3	25	13	OW-1-40D	76.0	OFF	OFF
Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.											
Date: <u>2/4/1900</u>											

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

O ₂ Injection System #1											
Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	30	12	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	25	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	20	18
OW-1-39S	50.7	45	13	OW-1-45	65.7	30	20	OW-1-51R	60.6	25	17
OW-1-40S	51.1	25	13	OW-1-46	64.3	30	18	OW-1-52	59.3	40	17
OW-1-41S	51.5	30	12	OW-1-47	63.4	30	18	OW-1-53	60.0	20	17
OW-1-42S	51.3	20	12	OW-1-48	62.5	30	18	OW-1-54	60.0	30	17
				OW-1-49	61.5	30	18				
				OW-1-50	61.0	25	17				

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

O ₂ Injection System #2												
Monitoring Points Log					Monitoring Points Log					Monitoring Points Log		
ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	25.07	21.9	1.84	7.2	MP-1-5	24.73	1.3	1.25	4.5	MP-1-1D	2.67	8.61
MP-1-1S	24.25	39.2	3.09	13	MP-1-6	17.21	20.9	2.56	3.0	MP-1-2D	3.14	6.93
MP-1-2D	19.65	40.0	2.91	30	MP-1-7	20.52	20.9	1.60	0	MP-1-3D	3.67	12.49
MP-1-2S	19.24	23.4	4.74	4.1	MP-1-8	21.54	21.2	3.04	2.1	MP-1-4D	3.09	11.02
MP-1-3D	17.40	20.6	3.22	36								
MP-1-3S	17.44	40.0	4.73	69.9								
MP-1-4D	20.17	31.4	2.11	1.1								
MP-1-4S	19.98	40.0	3.99	0								

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>5/7/2012</u>
Time:	<u>1300</u>
Weather:	<u>Cloudy</u>
Outdoor Temperature:	<u>~75° F</u>
Inside Trailer Temperature:	<u>~70° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>3,154.3</u>			Compressor Tank *	<u>105</u>		(psi)
Feed Air Pressure *	<u>110</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>65</u>	(psi)		Delivery Air	<u>107</u>		(psi)
Oxygen Receiver Pressure *	<u>110</u>	(psi)		Element Outlet Temperature	<u>131</u>		(oF)
				Running Hours	<u>3,761</u>		(hours)
				Loading Hours	<u>2,387</u>		(hours)
Oxygen Purity	<u>98.1</u>	(percent)					
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #1											
Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	40	32	OW-1-5S	67.3	35	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	40	29	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	45	31	OW-1-7S	66.9	30	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	50	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	35	29	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	40	29	OW-1-10S	54.6	30	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	29	OW-1-11S	54.1	35	15	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	15	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/7/2012

O₂ Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	40	15	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	35	12
OW-1-14S	52.7	50	16	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	35	12
OW-1-15S	52.2	30	14	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	12
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	35	13
OW-1-18S	50.2	40	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	35	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	35	13
OW-1-20S	49.3	45	14	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	30	14

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	35	27	OW-1-29S	48.5	30	13	OW-1-33D	83.2	30	29
OW-1-26D	78.1	60	27	OW-1-30S	48.8	30	13	OW-1-34D	84.5	35	31
OW-1-27D	77.9	35	32	OW-1-31S	49.3	30	12	OW-1-35D	85.0	60	18
OW-1-28D	78.0	30	28	OW-1-32S	49.3	40	13	OW-1-36D	85.0	35	29
OW-1-29D	78.4	30	27	OW-1-33S	49.7	30	13	OW-1-37D	84.0	35	29
OW-1-30D	79.0	45	34	OW-1-34S	50.1	30	13	OW-1-38D	82.0	35	35
OW-1-31D	80.5	50	19	OW-1-35S	50.3	35	13	OW-1-39D	78.0	30	27
OW-1-32D	81.6	30	28	OW-1-36S	50.3	35	13	OW-1-40D	76.0	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 2/9/1900

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

O ₂ Injection System #1											
Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	30	12	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	25	12	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	25	19
OW-1-39S	50.7	45	12	OW-1-45	65.7	30	19	OW-1-51R	60.6	30	18
OW-1-40S	51.1	30	13	OW-1-46	64.3	35	16	OW-1-52	59.3	50	15
OW-1-41S	51.5	30	13	OW-1-47	63.4	30	17	OW-1-53	60.0	35	17
OW-1-42S	51.3	25	13	OW-1-48	62.5	30	18	OW-1-54	60.0	30	16
				OW-1-49	61.5	30	17				
				OW-1-50	61.0	40	17				

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

O ₂ Injection System #2												
Monitoring Points Log					Monitoring Points Log					Monitoring Points Log		
ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	25.13	20.9	1.52	17.2	MP-1-5	24.76	20.9	1.97	21.7	MP-1-1D	2.12	3.48
MP-1-1S	25.98	40.0	2.69	5.1	MP-1-6	17.21	22.9	1.67	3.7	MP-1-2D	2.82	6.48
MP-1-2D	19.67	40.0	2.08	0	MP-1-7	20.43	20.8	1.45	0	MP-1-3D	3.19	7.69
MP-1-2S	19.25	29.7	2.27	0	MP-1-8	21.47	20.9	2.27	4.2	MP-1-4D	2.59	9.12
MP-1-3D	17.44	19.6	2.64	0								
MP-1-3S	17.46	40.0	4.04	0								
MP-1-4D	20.13	35.9	1.48	36.1								
MP-1-4S	19.95	40.0	2.87	6.7								

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>5/18/2012</u>
Time:	<u>1311</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~74° F</u>
Inside Trailer Temperature:	<u>~70° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>3,225.9</u>			Compressor Tank *	<u>110</u>		(psi)
Feed Air Pressure *	<u>70</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>60</u>	(psi)		Delivery Air	<u>107</u>		(psi)
Oxygen Receiver Pressure *	<u>105</u>	(psi)		Element Outlet Temperature	<u>133</u>		(oF)
				Running Hours	<u>3,845</u>		(hours)
				Loading Hours	<u>2,438</u>		(hours)
Oxygen Purity	<u>97.9</u>	(percent)					
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #1											
Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	35	32	OW-1-5S	67.3	30	17	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	35	28	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	30	31	OW-1-7S	66.9	28	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	30	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	30	30	OW-1-9S	66.0	30	18	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	35	29	OW-1-10S	54.6	25	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	29	OW-1-11S	54.1	30	15	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	15	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/18/2012

O₂ Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	30	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	30	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	25	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	30	13
OW-1-18S	50.2	25	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	25	12
OW-1-19S	49.7	40	12	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	13
OW-1-20S	49.3	40	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	30	14

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	27	OW-1-29S	48.5	30	12	OW-1-33D	83.2	30	29
OW-1-26D	78.1	50	28	OW-1-30S	48.8	35	13	OW-1-34D	84.5	35	31
OW-1-27D	77.9	60	30	OW-1-31S	49.3	40	13	OW-1-35D	85.0	40	28
OW-1-28D	78.0	30	28	OW-1-32S	49.3	40	13	OW-1-36D	85.0	20	30
OW-1-29D	78.4	35	27	OW-1-33S	49.7	30	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	80	31	OW-1-34S	50.1	30	13	OW-1-38D	82.0	40	30
OW-1-31D	80.5	35	28	OW-1-35S	50.3	30	13	OW-1-39D	78.0	30	28
OW-1-32D	81.6	30	28	OW-1-36S	50.3	40	13	OW-1-40D	76.0	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 2/4/1900

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

O ₂ Injection System #1											
Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	25	12	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	25	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	25	19
OW-1-39S	50.7	40	13	OW-1-45	65.7	30	20	OW-1-51R	60.6	30	18
OW-1-40S	51.1	20	13	OW-1-46	64.3	25	18	OW-1-52	59.3	40	16
OW-1-41S	51.5	30	13	OW-1-47	63.4	25	18	OW-1-53	60.0	20	17
OW-1-42S	51.3	25	13	OW-1-48	62.5	25	18	OW-1-54	60.0	70	17
				OW-1-49	61.5	20	17				
				OW-1-50	61.0	20	18				

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

O ₂ Injection System #2												
Monitoring Points Log					Monitoring Points Log					Monitoring Points Log		
ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	25.14	20.9	2.14	35.1	MP-1-5	24.80	20.9	2.40	114.1	MP-1-1D	2.65	4.36
MP-1-1S	25.30	40.0	1.96	3.4	MP-1-6	17.24	20.9	2.07	0.0	MP-1-2D	2.25	5.97
MP-1-2D	19.32	40.0	1.89	0	MP-1-7	20.51	20.9	1.40	0	MP-1-3D	2.81	5.31
MP-1-2S	19.71	28.8	3.65	0	MP-1-8	21.54	20.9	2.30	0.0	MP-1-4D	2.01	5.89
MP-1-3D	17.46	20.9	2.31	0								
MP-1-3S	17.48	40.0	3.88	0								
MP-1-4D	20.16	35.8	1.73	4.4								
MP-1-4S	19.98	40.0	2.68	184.7								

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/18/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|------------------------------|-----------------------------|
| 1) Oil Level Checked with system unloaded* | Yes <u> X </u> | No <u> </u> |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | | |
| Low (red) <u> </u> | Normal (green) <u> </u> | High (orange) <u> </u> |
| 3) Oil added | Yes <u> </u> | No <u> X </u> |
| 4) Oil changed | Yes <u> </u> | No <u> X </u> |
| 5) Oil filter changed | Yes <u> </u> | No <u> X </u> |
| 6) Air filter Changed | Yes <u> </u> | No <u> X </u> |
| 7) Oil separator changed | Yes <u> </u> | No <u> X </u> |
| 8) Terminal strips checked | Yes <u> X </u> | No <u> </u> |

AS-80 O₂ Generator

- | | | |
|-----------------------|-------------------|-----------------|
| 1) Prefilter changed | Yes <u> </u> | No <u> X </u> |
| 2) Coalescing changed | Yes <u> </u> | No <u> X </u> |

GENERAL SYSTEM NOTES

Trailer

- | | | | |
|----|---|------------------|------------------|
| 1) | Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <u> X </u> | No <u> </u> |
| 2) | Abnormal conditions observed (e.g. vandalism) <u> </u> | | |
| 3) | Other major activities completed <u> </u> | | |
| 4) | Supplies needed <u> </u> | | |
| 5) | Visitors <u> </u> | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Found solenoid valve on Bank #6 malfunctioning. Took apart valve and cleaned out dust buildup, readjusted spring pressure and reinstalled. Wire brushed all bolts on monitoring point manholes and sprayed with WD-40 to lube threads. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Pulled all weeds along gates and trimmed tree limb from other property hitting the system shed roof.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	6/1/2012
Time:	1240
Weather:	Sunny
Outdoor Temperature:	~65° F
Inside Trailer Temperature:	~69° F
Performed By:	Mike Ryan

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	3,312.4			Compressor Tank *	105		(psi)
Feed Air Pressure *	70	(psi)		(readings below are made from control panel)			
Cycle Pressure *	60	(psi)		Delivery Air	104		(psi)
Oxygen Receiver Pressure *	100	(psi)		Element Outlet Temperature	102		(oF)
				Running Hours	3,945		(hours)
				Loading Hours	2,498		(hours)
Oxygen Purity	97.1	(percent)					
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #1											
Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	35	32	OW-1-5S	67.3	25	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	28	OW-1-6S	67.0	25	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	30	31	OW-1-7S	66.9	20	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	30	31	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	25	30	OW-1-9S	66.0	25	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	20	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	30	30	OW-1-11S	54.1	30	15	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	16	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/1/2012

O₂ Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	20	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	20	12
OW-1-14S	52.7	30	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	25	12
OW-1-15S	52.2	25	14	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	20	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	30	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	30	13
OW-1-18S	50.2	25	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	30	15	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	25	14
OW-1-20S	49.3	45	14	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	30	14

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	27	OW-1-29S	48.5	20	13	OW-1-33D	83.2	40	29
OW-1-26D	78.1	60	29	OW-1-30S	48.8	25	13	OW-1-34D	84.5	35	31
OW-1-27D	77.9	50	31	OW-1-31S	49.3	20	13	OW-1-35D	85.0	60	29
OW-1-28D	78.0	30	28	OW-1-32S	49.3	35	12	OW-1-36D	85.0	30	30
OW-1-29D	78.4	40	27	OW-1-33S	49.7	25	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	60	33	OW-1-34S	50.1	10	13	OW-1-38D	82.0	40	27
OW-1-31D	80.5	50	21	OW-1-35S	50.3	15	13	OW-1-39D	78.0	20	27
OW-1-32D	81.6	20	28	OW-1-36S	50.3	20	13	OW-1-40D	76.0	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 6/1/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

O ₂ Injection System #1											
Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	30	12	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	25	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	20	18
OW-1-39S	50.7	35	13	OW-1-45	65.7	25	18	OW-1-51R	60.6	25	17
OW-1-40S	51.1	20	13	OW-1-46	64.3	20	18	OW-1-52	59.3	40	15
OW-1-41S	51.5	30	13	OW-1-47	63.4	20	18	OW-1-53	60.0	20	16
OW-1-42S	51.3	25	13	OW-1-48	62.5	25	17	OW-1-54	60.0	30	17
				OW-1-49	61.5	20	17				
				OW-1-50	61.0	30	18				

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

O ₂ Injection System #2												
Monitoring Points Log					Monitoring Points Log					Monitoring Points Log		
ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	24.86	20.9	1.86	NR	MP-1-5	24.52	20.9	1.82	NR	MP-1-1D	2.01	3.00
MP-1-1S	25.04	39.9	1.87	NR	MP-1-6	16.99	20.9	2.08	NR	MP-1-2D	2.05	2.39
MP-1-2D	19.04	39.6	1.84	NR	MP-1-7	20.26	20.9	1.82	NR	MP-1-3D	2.89	3.59
MP-1-2S	19.45	40.0	3.35	NR	MP-1-8	21.32	18.0	2.61	NR	MP-1-4D	1.99	3.09
MP-1-3D	17.20	19.3	2.51	NR								
MP-1-3S	17.25	40.0	3.71	NR								
MP-1-4D	19.95	23.2	2.06	NR								
MP-1-4S	19.76	40.0	2.71	NR								

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/1/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|--|--|
| 1) Oil Level Checked with system unloaded* | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | | |
| Low (red) _____ | Normal (green) <input checked="" type="checkbox"/> | High (orange) _____ |
| 3) Oil added | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4) Oil changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5) Oil filter changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 6) Air filter Changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 7) Oil separator changed | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 8) Terminal strips checked | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

AS-80 O₂ Generator

- | | | |
|-----------------------|-----------|--|
| 1) Prefilter changed | Yes _____ | No <input checked="" type="checkbox"/> |
| 2) Coalescing changed | Yes _____ | No <input checked="" type="checkbox"/> |

GENERAL SYSTEM NOTES

Trailer

- | | | | |
|----|---|---|-----------------------------|
| 1) | Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| 2) | Abnormal conditions observed (e.g. vandalism) _____ | | |
| 3) | Other major activities completed _____ | | |
| 4) | Supplies needed _____ | | |
| 5) | Visitors _____ | | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Removed a small quantity of oil from the separator unit. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Pulled all weeds along gates and fence areas. A service technician from AFCO Home Appliance was on-site to evaluate the issues with the Fredrich Air Conditioner. It was determined that the compressor in the unit is blown and the system needs to be replaced. Due to the limited access to the AC unit options are being evaluated with Matrix for the replacement of this unit.

During the O&M event the PID stopped working and readings were not collected.

Electric Meter # 96-934-323 tied into Pole #4

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	6/18/2012
Time:	1325
Weather:	Sunny
Outdoor Temperature:	~78° F
Inside Trailer Temperature:	~75° F
Performed By:	Mike Ryan

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	3,430.0			Compressor Tank *	110	(psi)	
Feed Air Pressure *	110	(psi)		(readings below are made from control panel)			
Cycle Pressure *	70	(psi)		Delivery Air	106	(psi)	
Oxygen Receiver Pressure *	100	(psi)		Element Outlet Temperature	108	(oF)	
Oxygen Purity	98.5	(percent)		Running Hours	4,081	(hours)	
* maximum reading during loading cycle				Loading Hours	2,581	(hours)	
				* maximum reading during loading cycle			

O ₂ Injection System #1											
Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	32	OW-1-5S	67.3	30	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	28	OW-1-6S	67.0	40	19	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	30	31	OW-1-7S	66.9	30	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	40	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	30	30	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	45	30	OW-1-10S	54.6	40	15	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	30	OW-1-11S	54.1	50	15	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	40	16	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were set at 3 minutes.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/18/2012

O₂ Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	20	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	25	12
OW-1-14S	52.7	25	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	30	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	35	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	40	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
OW-1-20S	49.3	50	14	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	40	14

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection times at Bank #5 were set at 3 minutes.

O₂ Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	28	OW-1-29S	48.5	30	13	OW-1-33D	83.2	40	30
OW-1-26D	78.1	60	29	OW-1-30S	48.8	25	13	OW-1-34D	84.5	40	32
OW-1-27D	77.9	50	31	OW-1-31S	49.3	20	14	OW-1-35D	85.0	60	29
OW-1-28D	78.0	30	28	OW-1-32S	49.3	30	13	OW-1-36D	85.0	30	30
OW-1-29D	78.4	40	27	OW-1-33S	49.7	30	13	OW-1-37D	84.0	30	30
OW-1-30D	79.0	60	38	OW-1-34S	50.1	35	13	OW-1-38D	82.0	40	28
OW-1-31D	80.5	40	29	OW-1-35S	50.3	40	13	OW-1-39D	78.0	30	28
OW-1-32D	81.6	20	30	OW-1-36S	50.3	40	13	OW-1-40D	76.0	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

Date: 6/18/2012

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

O ₂ Injection System #1											
Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	40	12	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	35	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	30	19
OW-1-39S	50.7	50	13	OW-1-45	65.7	30	19	OW-1-51R	60.6	30	18
OW-1-40S	51.1	25	13	OW-1-46	64.3	30	18	OW-1-52	59.3	40	16
OW-1-41S	51.5	25	14	OW-1-47	63.4	30	18	OW-1-53	60.0	35	17
OW-1-42S	51.3	30	12	OW-1-48	62.5	35	18	OW-1-54	60.0	35	17
				OW-1-49	61.5	25	17				
				OW-1-50	61.0	30	16				

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection time at Bank #11 was set at 6 minutes.

O ₂ Injection System #2												
Monitoring Points Log					Monitoring Points Log					Monitoring Points Log		
ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	24.51	20.9	2.34	0	MP-1-5	24.15	20.9	2.29	0	MP-1-1D	1.69	2.22
MP-1-1S	24.68	20.9	1.99	0	MP-1-6	16.60	20.9	2.26	0	MP-1-2D	2.01	3.25
MP-1-2D	18.67	24.8	1.44	0	MP-1-7	19.87	20.9	1.73	0.2	MP-1-3D	2.54	3.18
MP-1-2S	19.68	32.9	3.31	0	MP-1-8	20.92	19.7	2.02	0	MP-1-4D	2.12	3.15
MP-1-3D	16.83	19.7	2.35	0								
MP-1-3S	16.85	38.9	3.20	0								
MP-1-4D	19.54	28.1	1.90	5.5								
MP-1-4S	19.36	24.7	3.18	0.8								

Comments: DO readings were collected at the following depths: MP-1-1S (66 feet), MP-1-1D (96 feet), MP-1-2S (46 feet), MP-1-2D (81 feet), MP-1-3S (49 feet), MP-1-3D (79 feet), MP-1-4S (53 feet), MP-1-4D (83 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>4/5/2012</u>
Time:	<u>1240</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~75° F</u>
Inside Trailer Temperature:	<u>~70° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>10,647</u>			Compressor Tank *	<u>80</u>		(psi)
Feed Air Pressure *	<u>75</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>60</u>	(psi)		Delivery Air	<u>87</u>	(psi)	
Oxygen Receiver Pressure *	<u>115</u>	(psi)		Element Outlet Temperature	<u>172</u>	(°F)	
Oxygen Purity	<u>97.8</u>	(percent)		Running Hours	<u>10,786</u>	(hours)	
* maximum reading during loading cycle				Loading Hours	<u>10,687</u>	(hours)	
* maximum reading during loading cycle							

O ₂ Injection System #2											
Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	35	32	OW-2-9S	75'	40	20	OW-2-10D	97.2'	35	28
OW-2-3	94.3'	45	28	OW-2-10S	75'	45	30	OW-2-11D	100.8'	35	32
OW-2-4	94.7'	40	33	OW-2-11S	76.5'	50	21	OW-2-12	94'	40	20
OW-2-5	95.3'	30	30	OW-2-13S	75'	45	19	OW-2-13D	97'	60	31
OW-2-6	95.7'	30	31	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	36	29
OW-2-7	96'	30	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	40	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	35	31	OW-2-20S	79'	40	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/5/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	40	29
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	40	28
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	55	32
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	60	34
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	40	38

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	30	20	OW-2-45	61.1'	30	22	MP-2-1	27.97	21.2	3.64	0
OW-2-38	62.1'	30	20	OW-2-46	61'	40	20	MP-2-2	29.07	20.9	4.22	13.3
OW-2-39	60'	35	20	OW-2-47	60.5'	35	20	MP-2-3S	29.19	21.7	1.81	2.5
OW-2-40	61.7'	30	21	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.38	27.7	1.85	5.8
OW-2-41	61.7'	25	20	MP-2-2	6.57	8.02		MP-2-4	17.92	24.9	3.16	70.1
OW-2-42	61.6'	45	19	MP-2-3S	1.42	15.24		MP-2-5	16.15	23.4	3.96	7.1
OW-2-43	61.4'	40	20	MP-2-3D	5.03	20.77						
OW-2-44R	60.6'	40	20	MP-2-5	5.37	18.87						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>4/17/2012</u>
Time:	<u>1314</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~75° F</u>
Inside Trailer Temperature:	<u>~70° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>10,898</u>			Compressor Tank *	<u>75</u>		(psi)
Feed Air Pressure *	<u>80</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>50</u>	(psi)		Delivery Air	<u>84</u>		(psi)
Oxygen Receiver Pressure *	<u>125</u>	(psi)		Element Outlet Temperature	<u>172</u>		(°F)
Oxygen Purity	<u>97.9</u>	(percent)		Running Hours	<u>11,039</u>		(hours)
				Loading Hours	<u>10,939</u>		(hours)
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #2											
------------------------------------	--	--	--	--	--	--	--	--	--	--	--

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	40	31	OW-2-9S	75'	30	21	OW-2-10D	97.2'	35	28
OW-2-3	94.3'	45	21	OW-2-10S	75'	30	30	OW-2-11D	100.8'	30	33
OW-2-4	94.7'	50	32	OW-2-11S	76.5'	30	22	OW-2-12	94'	25	21
OW-2-5	95.3'	30	30	OW-2-13S	75'	45	20	OW-2-13D	97'	50	28
OW-2-6	95.7'	40	31	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	40	29
OW-2-7	96'	30	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	35	19	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	30	31	OW-2-20S	79'	30	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/17/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	35	28
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	50	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	24
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	40	32
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	35	38

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	30	20	OW-2-45	61.1'	30	21	MP-2-1	28.21	20.9	1.24	1.0
OW-2-38	62.1'	35	19	OW-2-46	61'	30	19	MP-2-2	29.32	20.9	3.47	0
OW-2-39	60'	40	18	OW-2-47	60.5'	35	18	MP-2-3S	29.45	21.4	2.40	0.4
OW-2-40	61.7'	30	20	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.65	29.7	2.22	0.5
OW-2-41	61.7'	30	20	MP-2-2	3.79	10.25		MP-2-4	18.18	28.5	2.47	0.7
OW-2-42	61.6'	40	18	MP-2-3S	3.29	10.44		MP-2-5	16.39	26.0	3.54	0.2
OW-2-43	61.4'	45	20	MP-2-3D	3.75	12.37						
OW-2-44R	60.6'	40	20	MP-2-5	4.24	12.65						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>5/4/2012</u>
Time:	<u>1307</u>
Weather:	<u>Cloudy</u>
Outdoor Temperature:	<u>~72° F</u>
Inside Trailer Temperature:	<u>~70° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)		Compressor (Kaesar Rotary Screw)	
Hours	<u>11,298</u>	Compressor Tank *	<u>95</u> (psi)
Feed Air Pressure *	<u>90</u> (psi)	(readings below are made from control panel)	
Cycle Pressure *	<u>60</u> (psi)	Delivery Air	<u>105</u> (psi)
Oxygen Receiver Pressure *	<u>115</u> (psi)	Element Outlet Temperature	<u>171</u> (°F)
Oxygen Purity	<u>97.7</u> (percent)	Running Hours	<u>11,440</u> (hours)
		Loading Hours	<u>11,325</u> (hours)
* maximum reading during loading cycle		* maximum reading during loading cycle	

O₂ Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	40	28	OW-2-9S	75'	30	20	OW-2-10D	97.2'	20	28
OW-2-3	94.3'	40	28	OW-2-10S	75'	30	30	OW-2-11D	100.8'	30	32
OW-2-4	94.7'	40	32	OW-2-11S	76.5'	35	22	OW-2-12	94'	30	20
OW-2-5	95.3'	30	31	OW-2-13S	75'	40	20	OW-2-13D	97'	45	33
OW-2-6	95.7'	35	30	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	30	30
OW-2-7	96'	30	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	50	19	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	35	30	OW-2-20S	79'	40	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/4/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	29
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	30	37
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	35	32
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	40	39
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	30	34

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	35	20	OW-2-45	61.1'	30	21	MP-2-1	28.24	24.6	1.41	5.3
OW-2-38	62.1'	30	22	OW-2-46	61'	30	19	MP-2-2	29.32	22.8	3.11	0
OW-2-39	60'	30	20	OW-2-47	60.5'	35	19	MP-2-3S	29.42	21.5	2.89	0
OW-2-40	61.7'	45	20	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.62	23.3	1.71	1.2
OW-2-41	61.7'	40	20	MP-2-2	3.63	10.05		MP-2-4	18.15	23.7	2.08	0
OW-2-42	61.6'	30	18	MP-2-3S	3.29	7.77		MP-2-5	16.33	20.9	3.18	0
OW-2-43	61.4'	30	20	MP-2-3D	3.18	10.28						
OW-2-44R	60.6'	30	20	MP-2-5	3.72	9.19						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/4/2012

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes X No
* Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded Low (red) Normal (green) X High (orange)
3) Oil added Yes No X
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator cleaned Yes No X
8) Terminal strips checked Yes No X

AS-80 O. Generator

- 1) Prefilter changed Yes No X
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes X No
2) Abnormal conditions observed (e.g. vandalism)
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Made repair to threads and replaced bolts at monitoring point MP-2-4. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>5/17/2012</u>
Time:	<u>1114</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~69° F</u>
Inside Trailer Temperature:	<u>~70° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>11,594</u>			Compressor Tank *	<u>110</u>		(psi)
Feed Air Pressure *	<u>90</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>60</u>	(psi)		Delivery Air	<u>95</u>		(psi)
Oxygen Receiver Pressure *	<u>115</u>	(psi)		Element Outlet Temperature	<u>171</u>		(°F)
Oxygen Purity	<u>97.8</u>	(percent)		Running Hours	<u>11,736</u>		(hours)
				Loading Hours	<u>11,610</u>		(hours)
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #2											
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Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	40	29	OW-2-9S	75'	30	20	OW-2-10D	97.2'	25	28
OW-2-3	94.3'	60	28	OW-2-10S	75'	30	30	OW-2-11D	100.8'	25	33
OW-2-4	94.7'	40	30	OW-2-11S	76.5'	30	21	OW-2-12	94'	30	20
OW-2-5	95.3'	35	31	OW-2-13S	75'	35	18	OW-2-13D	97'	50	21
OW-2-6	95.7'	40	30	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	40	22
OW-2-7	96'	30	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	30	19	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	30	30	OW-2-20S	79'	25	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/17/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	20	29
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	25	28
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	33
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	30	37
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	20	35

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	30	20	OW-2-45	61.1'	45	21	MP-2-1	28.30	24.3	2.05	702.5
OW-2-38	62.1'	30	19	OW-2-46	61'	25	20	MP-2-2	29.36	21.5	2.41	0
OW-2-39	60'	40	19	OW-2-47	60.5'	25	19	MP-2-3S	29.45	20.9	2.32	1.1
OW-2-40	61.7'	35	20	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.66	34.8	1.81	0.9
OW-2-41	61.7'	45	20	MP-2-2	3.39	3.83		MP-2-4	18.18	24.2	2.31	0
OW-2-42	61.6'	40	20	MP-2-3S	1.57	2.51		MP-2-5	16.40	23.4	2.76	163.3
OW-2-43	61.4'	40	20	MP-2-3D	2.71	3.08						
OW-2-44R	60.6'	30	19	MP-2-5	3.25	6.48						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>5/31/2012</u>
Time:	<u>1319</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~81° F</u>
Inside Trailer Temperature:	<u>~72° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>11,933</u>			Compressor Tank *	<u>100</u>		(psi)
Feed Air Pressure *	<u>60</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>60</u>	(psi)		Delivery Air	<u>118</u>		(psi)
Oxygen Receiver Pressure *	<u>125</u>	(psi)		Element Outlet Temperature	<u>174</u>		(°F)
				Running Hours	<u>12,074</u>		(hours)
				Loading Hours	<u>11,936</u>		(hours)
Oxygen Purity	<u>96.6</u>	(percent)					
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #2											
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Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	35	28	OW-2-9S	75'	25	21	OW-2-10D	97.2'	20	28
OW-2-3	94.3'	40	29	OW-2-10S	75'	30	30	OW-2-11D	100.8'	30	33
OW-2-4	94.7'	30	33	OW-2-11S	76.5'	25	22	OW-2-12	94'	20	20
OW-2-5	95.3'	30	30	OW-2-13S	75'	25	20	OW-2-13D	97'	30	31
OW-2-6	95.7'	30	31	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	25	29
OW-2-7	96'	20	29	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	25	19	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	35	30	OW-2-20S	79'	25	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/31/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	29
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	40	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	45	28
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	50	31
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	60	38

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	20	20	OW-2-45	61.1'	35	21	MP-2-1	27.97	24.9	1.93	312.2
OW-2-38	62.1'	30	19	OW-2-46	61'	40	19	MP-2-2	29.05	20.9	2.68	0.2
OW-2-39	60'	25	19	OW-2-47	60.5'	35	19	MP-2-3S	29.17	21.1	3.41	0
OW-2-40	61.7'	20	21	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.38	35.2	1.86	0.7
OW-2-41	61.7'	20	20	MP-2-2	3.10	3.39		MP-2-4	17.91	22.7	2.19	0.2
OW-2-42	61.6'	30	20	MP-2-3S	2.18	2.53		MP-2-5	16.12	22.0	2.55	86.1
OW-2-43	61.4'	30	20	MP-2-3D	2.94	4.59						
OW-2-44R	60.6'	30	20	MP-2-5	2.42	3.27						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>6/15/2012</u>
Time:	<u>1307</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~75° F</u>
Inside Trailer Temperature:	<u>~72° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)		Compressor (Kaesar Rotary Screw)	
Hours	<u>12,294</u>	Compressor Tank *	<u>95</u> (psi)
Feed Air Pressure *	<u>90</u> (psi)	(readings below are made from control panel)	
Cycle Pressure *	<u>60</u> (psi)	Delivery Air	<u>93</u> (psi)
Oxygen Receiver Pressure *	<u>125</u> (psi)	Element Outlet Temperature	<u>172</u> (°F)
Oxygen Purity	<u>97.7</u> (percent)	Running Hours	<u>12,435</u> (hours)
		Loading Hours	<u>12,285</u> (hours)
* maximum reading during loading cycle		* maximum reading during loading cycle	

O₂ Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	40	28	OW-2-9S	75'	35	21	OW-2-10D	97.2'	35	28
OW-2-3	94.3'	60	29	OW-2-10S	75'	40	30	OW-2-11D	100.8'	30	32
OW-2-4	94.7'	30	32	OW-2-11S	76.5'	35	22	OW-2-12	94'	80	21
OW-2-5	95.3'	40	31	OW-2-13S	75'	30	20	OW-2-13D	97'	50	29
OW-2-6	95.7'	30	30	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	30	28
OW-2-7	96'	30	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	30	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	30	30	OW-2-20S	79'	35	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/15/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	29
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	40	28
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	27
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	45	39
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	30	33

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	20	20	OW-2-45	61.1'	30	21	MP-2-1	27.66	24.9	1.61	0.0
OW-2-38	62.1'	40	19	OW-2-46	61'	25	18	MP-2-2	28.75	18.2	2.63	0.3
OW-2-39	60'	30	19	OW-2-47	60.5'	30	19	MP-2-3S	28.84	20.9	2.40	0.5
OW-2-40	61.7'	35	21	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.05	21.2	1.94	0
OW-2-41	61.7'	40	20	MP-2-2	2.86	3.29		MP-2-4	17.57	20.9	1.74	0.1
OW-2-42	61.6'	40	19	MP-2-3S	2.51	2.81		MP-2-5	15.76	22.6	2.01	0.1
OW-2-43	61.4'	40	20	MP-2-3D	2.44	3.14						
OW-2-44R	60.6'	30	20	MP-2-5	2.26	2.89						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/15/2012

OPERATIONAL NOTES

GA5 Air Compressor

- | | | |
|--|--------------------|--|
| 1) Oil Level Checked with system unloaded* | Yes <u>X</u> | No _____ |
| * Unload system, wait until Delivery Air Pressure is less than 9 psi | | |
| 2) Oil Level with system unloaded | Low (red) <u>X</u> | Normal (green) _____ High (orange) _____ |
| 3) Oil added | Yes <u>X</u> | No _____ |
| 4) Oil changed | Yes _____ | No <u>X</u> |
| 5) Oil filter changed | Yes _____ | No <u>X</u> |
| 6) Air filter Changed | Yes _____ | No <u>X</u> |
| 7) Oil separator cleaned | Yes _____ | No <u>X</u> |
| 8) Terminal strips checked | Yes <u>X</u> | No _____ |

AS-80 O. Generator

- | | | |
|-----------------------|-----------|-------------|
| 1) Prefilter changed | Yes _____ | No <u>X</u> |
| 2) Coalescing changed | Yes _____ | No <u>X</u> |

GENERAL SYSTEM NOTES

Trailer

- | | | |
|--|--------------|----------|
| 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) | Yes <u>X</u> | No _____ |
| 2) Abnormal conditions observed (e.g. vandalism) | _____ | |
| 3) Other major activities completed | _____ | |
| 4) Supplies needed | _____ | |
| 5) Visitors | _____ | |

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Adjusted lock on door as door was found to not be locking properly. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.
Electric Meter # 96-929-544 tied into Pole #3

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	<u>6/27/2012</u>
Time:	<u>1018</u>
Weather:	<u>Sunny</u>
Outdoor Temperature:	<u>~79° F</u>
Inside Trailer Temperature:	<u>~64° F</u>
Performed By:	<u>Mike Ryan</u>

O ₂ Generator (AirSep)				Compressor (Kaesar Rotary Screw)			
Hours	<u>12,558</u>			Compressor Tank *	<u>85</u>		(psi)
Feed Air Pressure *	<u>80</u>	(psi)		(readings below are made from control panel)			
Cycle Pressure *	<u>60</u>	(psi)		Delivery Air	<u>79</u>		(psi)
Oxygen Receiver Pressure *	<u>125</u>	(psi)		Element Outlet Temperature	<u>171</u>		(°F)
				Running Hours	<u>12,700</u>		(hours)
				Loading Hours	<u>12,548</u>		(hours)
Oxygen Purity	<u>87.7</u>	(percent)					
* maximum reading during loading cycle				* maximum reading during loading cycle			

O ₂ Injection System #2											
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Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	45	29	OW-2-9S	75'	35	21	OW-2-10D	97.2'	35	28
OW-2-3	94.3'	60	29	OW-2-10S	75'	35	30	OW-2-11D	100.8'	30	33
OW-2-4	94.7'	40	33	OW-2-11S	76.5'	40	22	OW-2-12	94'	50	20
OW-2-5	95.3'	35	31	OW-2-13S	75'	30	20	OW-2-13D	97'	40	32
OW-2-6	95.7'	35	31	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	35	29
OW-2-7	96'	35	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	30	OW-2-18S	74.5'	35	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	30	30	OW-2-20S	79'	30	23	OW-2-17	95'	OFF	OFF

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/27/2012

O₂ Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	OFF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	OFF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	OFF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	29
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	40	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	50	31
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	55	35
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	30	34

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings. Injection banks D & E are turned off.

O₂ Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O ₂)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	20	20	OW-2-45	61.1'	25	22	MP-2-1	27.45	24.5	2.03	11.8
OW-2-38	62.1'	30	20	OW-2-46	61'	45	21	MP-2-2	28.53	18.2	2.73	0
OW-2-39	60'	35	19	OW-2-47	60.5'	55	21	MP-2-3S	28.63	20.5	2.21	0
OW-2-40	61.7'	30	21	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	28.86	24.2	2.51	12.3
OW-2-41	61.7'	30	20	MP-2-2	3.20	5.02		MP-2-4	17.37	32.1	2.44	2.1
OW-2-42	61.6'	30	21	MP-2-3S	2.08	3.30		MP-2-5	15.56	38.2	3.26	15.0
OW-2-43	61.4'	30	21	MP-2-3D	3.11	4.17						
OW-2-44R	60.6'	30	20	MP-2-5	3.51	3.87						

Comments: All injection point flows were adjusted to the target flow rate of ~30 scfh provided that the pressure reading was no greater than the pressures provided in the hydrostatic tables prepared by URS Corporation after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/27/2012

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes X No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
Low (red) X Normal (green) _____ High (orange) _____
- 3) Oil added Yes X No _____
- 4) Oil changed Yes _____ No X
- 5) Oil filter changed Yes _____ No X
- 6) Air filter Changed Yes _____ No X
- 7) Oil separator cleaned Yes _____ No X
- 8) Terminal strips checked Yes X No _____

AS-80 O. Generator

- 1) Prefilter changed Yes _____ No X
- 2) Coalescing changed Yes _____ No X

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes X No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____
- 3) Other major activities completed _____
- 4) Supplies needed _____
- 5) Visitors _____

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Between June 21 and 22, 2012, the tip seals were replaced in the booster pump as they were worn out causing the pump to cycle more often. Took apart and cleaned the dust buildup from inside the inline check valve.

On Friday, June 22, 2012 at approximately 8:02 AM a compressor alarm was triggered due to a power failure. Mike Ryan arrived at the site shortly thereafter and reset the components and restarted the system. Total down time for this alarm was less than 1 hour.

On Saturday, June 23, 2012 there were two alarm conditions at the System #2 location. Both alarms were due to low pressure at the primary and secondary oxygen receiver tanks. Mike Ryan was dispatched to the site and discovered that the tanks were readings pressures below 20 PSI and that the Booster Pump would not cycle due to a power outage. In addition, the solenoid valve associated with Bank #3 was stuck open which caused the storage tanks to drain. Mike took apart the solenoid valve and cleaned out the dirt and dust build up and changed the o-ring. He restarted the system and allowed the oxygen level to building back up before cycling the system on a few different banks to ensure that the system was operating properly. Once everything checked out he secured the site and left the system running. Total down time associated with this alarm condition was approximately 12 hours.

On Monday, June 25, 2012 a compressor alarm was triggered by the system at approximately 8:59 AM. This alarm was triggered due to the heavy thunderstorms that occurred during that morning. Mike Ryan was dispatched to the site in the afternoon and reset all of the components and restarted the system. Total down time for this alarm condition was approximately 6 hours.

Added small amount of oil to compressor and adjusted tension on belt. Repaired small leak in 3/4" union on air holding tank. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Pulled weeds in and around fence area of shed.

Electric Meter # 96-929-544 tied into Pole #3

Action Items: