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Groundwater Sampling, NAPL Monitoring/Recovery and Groundwater Treatment Performance Report for the First Quarter of 2012 (January - March 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
77 Goodell Street
Buffalo, New York 14203

URS

October 2012

GROUNDWATER SAMPLING AND GROUNDWATER TREATMENT PERFORMANCE REPORT FOR THE FIRST QUARTER OF 2012 (JANUARY-MARCH)

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

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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 first quarter 2012 (January thru March).

Groundwater monitoring and sampling was conducted on March 20 thru March 28 2012. This included measuring the depth to groundwater and NAPL thickness for 59 wells. Groundwater samples were collected from 20 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 first quarter of 2012 for System No. 1 on January 6, January 24, February 13, February 24, March 9, and March 23, a total of 6 events and were taken for System No. 2 on January 5, January 23, February 10, February 23, March 8, and March 22, for a total of 6 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 6 existing wells during the first quarter of 2012. The wells were located within a parking lot immediately south of the site.
- Based on a comparison between the first quarter 2012 data and the previous data, the concentrations of total BTEX and total PAHs remained stable in most site monitoring wells. 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 first 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 first 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 first quarter, Fenley & Nicol monitored System No. 1 and No. 2 during six events.

1.0 INTRODUCTION

This report summarizes potentiometric head measurements, NAPL thickness measurements, and groundwater quality sampling performed during the first 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. Separate reports have been issued for first, second, and third quarter activities performed in 2011 (URS 2011a, 2011b, 2011c), and an annual report was issued that encompassed all four quarters of 2011. Separate reports were issued for the first, second, and third quarter activities performed in 2010, and an annual report was issued that encompassed all four quarters of 2010 (URS 2010b, 2010c, 2010d, 2010e). Additionally, separate reports were issued for the first, second, and third quarter activities performed in 2009, and an annual report was issued that encompassed all four quarters of 2009 (URS 2009c, 2009d, 2009e, 2010a). Separate reports were also issued for the first, second, and third quarter activities performed in 2008, and an annual report was issued that encompassed all four quarters of 2008 (URS 2008b, 2008c, 2009a, 2009b). Also, a report was issued for second and third quarter activities performed in 2007 and an annual report was issued that encompassed all three quarters of 2007 (URS 2007, 2008a). Bimonthly recovery of NAPL was discontinued in July 2011.

2.0 FIELD ACTIVITIES

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

- Measurement of the depth to groundwater and NAPL thickness in 59 monitoring wells.
- Collection of groundwater samples from 20 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 first 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. $\pm$ 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.

There were 20 monitoring wells sampled during the March 20-28 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 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 or PAHs in groundwater have remained relatively stable. There was an increase in BTEX and PAH concentrations in HIMW-020I, HIMW-022, and HIMW-023 from the fourth quarter 2011.

For well HIMW-020I, BTEX levels increased from 1 µg/L in fourth quarter 2011 to 710 µg/L in first quarter 2012. PAH levels in HIMW-020I increased from "not detected" in fourth quarter 2011 to 3,968 µg/L in first quarter 2012. Data will be continued to be reviewed to assess any noticeable trends associated with local water levels.

Concentrations of BTEX and PAHs also increased at HIMW-022 and HIMW-023. BTEX concentrations at HIMW-022 increased from 1 µg/L in fourth quarter 2011 to 45 µg/L in first quarter 2012. For HIMW-023, BTEX concentrations increased from 1 µg/L in fourth quarter 2011 to 34 µg/L in first quarter 2012. PAH concentrations for both HIMW-022 and HIMW-023

also increased from fourth quarter 2011. PAHs were not detected in either HIMW-022 or HIMW-023 in fourth quarter 2011 but were detected in first quarter 2012 at 17 μg/L and 43 μg/L respectively. Although levels in HIMW-022 and HIMW-023 increased in the first quarter 2012; levels of BTEX and PAHs remain below 100 μg/L total BTEX and 100 μg/L total PAHs.

3.2 Potentiometric Heads and NAPL Thickness

Potentiometric heads and NAPL thickness measurements for first 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 6 of the existing wells during the first 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 in accordance 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. URS measured headspace oxygen concentrations in January and Fenely & Nicol measured headspace oxygen concentrations in March. 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 installed adjacent to the oxygen delivery line (MP-1-1S through MP-1-4D) were all between 1.3 mg/L and 31.36 mg/L. The overall average concentration was 10.5 mg/L demonstrating the presence of sufficient oxygen to support aerobic conditions. With the exception of the last monitoring event of the quarter (March 23, 2012), the dissolved oxygen concentrations were well above 5 mg/L in all wells except for MP-1-7 (routinely 1 mg/L or below) and MP-1-4S and MP-1-1D (typically 1 to 5 mg/L). The reduced dissolved oxygen concentrations in MP-1-4S and MP-1-7 (located immediately downgradient of MP-1-4S) are related to reductions in air flow to adjacent delivery wells (specifically delivery wells 40D, 41D, 42D and 43) in response to high headspace oxygen concentrations detected in the headspace of MP-1-4D during the previous quarter. The low, but still aerobic dissolved oxygen concentrations in MP-1-1D may be related to increased levels of contamination in this area (measured by this quarter's elevated BTEX concentrations in nearby well HIMW-020I).

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.

Although all dissolved concentrations in the System No. 1 MPs were aerobic during the last monitoring event (March 23, 2012), dissolved oxygen levels were uniformly lower, with none greater than 10 mg/L. These levels will be monitored during the second quarter to determine whether this observation is unusual or part of a trend.

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. URS measured headspace oxygen concentrations in January and Fenely & Nicol measured headspace oxygen concentrations in March. A summary of the data collected from the monitoring points in the first quarter 2012 is presented on Table 4.

With the exception of the last monitoring event of the quarter (March 22, 2012), the first quarter 2012 dissolved oxygen concentrations in all system monitoring points were were all greater than 6 mg/L demonstrating an aerobic environment. Dissolved oxygen levels in all monitoring points were significantly lower during the last monitoring event on March 22, 2012; ranging between 1.65 mg/L at MP-2-3S to 12.67 mg/L at MP-2-4. These levels will be monitored during the second quarter to determine whether this observation is unusual or part of a trend.

Headspace oxygen concentrations remained high in MP-2-2D and MP-2-5. 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. Headspace oxygen concentrations in both these wells were lower in March than in January.

4.0 SUMMARY

Following is a summary of the first 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 5 existing wells during the first quarter of 2012. The wells were located within a parking lot immediately south of the site.
- Based on a comparison between the first quarter 2012 data and the previous data, the concentrations of total BTEX and total PAHs remained stable in most site monitoring wells, though one well (HIMW-020I) showed increased BTEX and PAH concentrations.
- 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 first quarter, Fenley & Nicol monitored System No. 1 and No. 2 during six events.

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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.

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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.

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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.

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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, 2012d. *2011 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site. February.*

TABLES

Table 1

Summary of Field Activities for the First Quarter 2012 [(1), (2)]
Hempstead Intersection Street Former MGP Site

Well ID	Quarterly Monitoring & Sampling Event (March 20 - March 22, 2012)		
	Water Level	NAPL Thickness	Water Quality
HIMW-002S	X	X	
HIMW-002I	X	X	
HIMW-002D	X	X	
HIMW-003S	X	X	
HIMW-003I	X	X	
HIMW-003D	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	X	X	
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	
HIMW-013I	X	X	X
HIMW-013D	X	X	X
HIMW-014I	X	X	X
HIMW-014D	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

Table 1

Summary of Field Activities for the First Quarter 2012 [(1), (2)]
Hempstead Intersection Street Former MGP Site

Well ID	Quarterly Monitoring & Sampling Event (March 20 - March 22, 2012)		
	Water Level	NAPL Thickness	Water Quality
HIMW-21	X	X	
HIMW-22	X	X	X
HIMW-23	X	X	X
HIMW-24	X	X	X
HIMW-25	X	X	X
PZ-02			
PZ-03			
IPR-14	X		
IPR-15	X		
IPR-16	X		
IPR-17	X		
IPR-18	X		
IPR-19S*			
IPR-19D	X	X	
IPR-20	X	X	
IPR-21	X	X	
IPR-22	X		
IPR-23	X		
IPR-24	X		
IPR-29	X	X	
IPR-30	X		
OSMW-01			
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-001D riser is damaged

** HIMW-10D was destroyed by sidewalk/driveway construction

Table 2
Groundwater and NAPL Measurements
First 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	3/20/2012	73.82	ND	24.75	ND	41.6	0	0.00	49.07
HIMW-02I	3/20/2012	78.87	ND	24.82	ND	91.5	0	0.00	54.05
HIMW-02D	3/20/2012	74.13	ND	25.02	ND	117.3	0	0.00	49.11
HIMW-03S	3/20/2012	65.00	ND	16.18	ND	34.7	0	0.00	48.82
HIMW-03I	3/20/2012	64.94	ND	16.37	ND	86.9	0	0.00	48.57
HIMW-03D	3/20/2012	65.26	ND	16.97	ND	145.3	0	0.00	48.29
HIMW-04S	3/20/2012	72.74	ND	24.59	ND	41.6	0	0.00	48.15
HIMW-04I	3/20/2012	72.78	ND	24.69	ND	90.5	0	0.00	48.09
HIMW-04D	3/20/2012	72.65	ND	25.10	ND	180.5	0	0.00	47.55
HIMW-05S	3/20/2012	67.19	ND	18.95	ND	39.1	0	0.00	48.24
HIMW-05I	3/20/2012	67.22	ND	18.83	ND	92.3	0	0.00	48.39
HIMW-05D	3/20/2012	67.22	ND	19.60	ND	139.0	0	0.00	47.62
HIMW-08S	3/20/2012	65.04	ND	17.35	ND	37.1	0	0.00	47.69
HIMW-08I	3/20/2012	65.14	ND	17.48	ND	75.1	0	0.00	47.66
HIMW-08D	3/20/2012	64.93	ND	17.30	ND	114.8	0	0.00	47.63
HIMW-09S	3/20/2012	70.03	ND	21.80	ND	39.6	0	0.00	48.23
HIMW-09I	3/20/2012	69.93	ND	21.75	ND	80.5	0	0.00	48.18
HIMW-09D	3/20/2012	69.96	ND	21.85	ND	122.8	0	0.00	48.11
HIMW-10S	3/20/2012	71.60	ND	22.38	ND	39.1	0	0.00	49.22
HIMW-10I	3/20/2012	71.47	ND	22.18	ND	91.4	0	0.00	49.29
HIMW-10D	3/20/2012	71.44	ND	NM	ND	136.0	0	0.00	NM
HIMW-11S	3/20/2012	71.62	ND	22.75	ND	41.6	0	0.00	48.87
HIMW-11I	3/20/2012	71.43	ND	22.59	ND	94.5	0	0.00	48.84
HIMW-11D	3/20/2012	71.39	ND	22.59	ND	123.6	0	0.00	48.80
HIMW-12S	3/20/2012	61.58	ND	15.20	ND	33.5	0	0.00	46.38
HIMW-12I	3/20/2012	61.59	ND	15.06	ND	75.0	0	0.00	46.53
HIMW-12D	3/20/2012	61.82	ND	16.70	ND	128.5	0	0.00	45.12
HIMW-13S	3/20/2012	72.83	ND	28.58	ND	48.9	0	0.00	44.25
HIMW-13I	3/20/2012	72.60	ND	28.36	ND	82.6	0	0.00	44.24
HIMW-13D	3/20/2012	72.53	ND	28.35	ND	122.5	0	0.00	44.18
HIMW-14I	3/20/2012	71.71	ND	27.58	ND	96.9	0	0.00	44.13
HIMW-14D	3/20/2012	71.59	ND	29.28	ND	152.6	0	0.00	42.31
HIMW-15I	3/20/2012	64.18	ND	23.28	ND	93.1	0	0.00	40.90
HIMW-15D	3/20/2012	63.96	ND	24.32	ND	155.0	0	0.00	39.64
HIMW-16S	3/20/2012	67.45	ND	18.88	28.91	34.4	0	5.50	48.57
HIMW-16I	3/20/2012	67.50	ND	19.20	77.96	82.7	0	4.70	48.30
HIMW-17S	3/20/2012	65.96	ND	17.95	31.70	36.7	0	5.00	48.01
HIMW-20S	3/20/2012	70.43	ND	23.27	ND	35.0	0	0.00	47.16
HIMW-20I	3/20/2012	70.30	ND	23.10	ND	73.0	0	0.00	47.20

Table 2
Groundwater and NAPL Measurements
First 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	3/20/2012		ND	17.60	42.3	45.3	0	3.00	NM
HIMW-22	3/20/2012		ND	27.38	ND	65.0	0	0.00	
HIMW-23	3/20/2012		ND	28.50	ND	77.0	0	0.00	
HIMW-24	3/20/2012		ND	12.90	ND	56.0	0	0.00	
HIMW-25	3/20/2012		ND	15.25	ND	53.0	0	0.00	
PZ-02	3/20/2012	72.96	NM	NM	NM	35.3	NM	NM	NM
PZ-03	3/20/2012	64.58	NM	NM	NM	29.5	NM	NM	NM
IPR-14	3/20/2012	66.93	ND	18.49	ND	44.4	0	0.00	48.44
IPR-15	3/20/2012	67.93	ND	19.45	ND	44.4	0	0.00	48.48
IPR-16	3/20/2012	69.49	ND	20.95	49.05	49.1	0	0.00	48.54
IPR-17	3/20/2012	70.60	ND	22.00	ND	54.1	0	0.00	48.60
IPR-18	3/20/2012	66.87	ND	18.55	ND	50.0	0	0.00	48.32
IPR-19S	3/20/2012	67.68	NM	NM	NM	45.1	NM	NM	NM
IPR-19D	3/20/2012	67.96	ND	19.58	ND	89.9	0	0.00	48.38
IPR-20	3/20/2012	66.70	ND	18.48	44.25	45.4	0	1.15	48.22
IPR-21	3/20/2012	67.67	ND	19.35	NM	45.0	0	NM	48.32
IPR-22	3/20/2012	66.33	ND	18.42	NM	45.4	0	NM	47.91
IPR-23	3/20/2012	66.67	ND	18.52	ND	45.4	0	0.00	48.15
IPR-24	3/20/2012	65.88	ND	17.87	NM	44.4	0	NM	48.01
IPR-29	3/20/2012	NM	ND	17.80	46.2	49.7	0	3.50	NM
IPR-30	3/20/2012	NM	ND	18.82	NM	NM	0	NM	NM
OSMW-01	3/20/2012	71.12	NM	NM	NM	42.2	0	NM	NM
OSMW-02	3/20/2012	71.59	NM	NM	NM	45.2	0	NM	NM
OSMW-03	3/20/2012	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
Groundwater Treatment Performance Monitoring
First Quarter 2012
Hempstead Intersection Street Former MGP Site

		1/6/2012				1/24/2012			2/13/2012			2/24/2012			3/9/2012			3/23/2012			
	ID	DTW (ft)	DO (mg/L	O2 Headspace (%O2)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	O2 Headspace (%O2)	DO (mg/L)	PID (ppm)
System #1	MP-1-1S	23.93	13.59	20.9	0.6	24.02	12.59	0.0	24.25	18.1	0.1	24.36	11.97	0.0	24.53	14.47	0.0	24.73	40.7	9.59	0.0
	MP-1-1D	23.75	4.27	21.3	0.0	23.85	3.34	0.4	24.08	3.3	0.6	24.20	6.89	0.8	24.36	3.12	0.6	24.57	21.7	1.47	0.1
	MP-1-2S	18.33	11.18	31.4	0.0	18.41	26.32	0.0	18.7	10.06	0.0	18.77	11.75	1.4	18.96	30.72	1.1	19.13	40.1	6.79	0.2
	MP-1-2D	17.91	15.59	35.9	0.2	18.03	22.29	0.0	18.17	9.27	0.0	18.36	6.54	0.0	18.53	4.75	0.2	18.74	33.9	3.64	0.0
	MP-1-3S	16.12	31.36	24.1	0.0	16.21	18.93	0.9	16.44	19.79	0.4	16.53	23.31	0.0	16.72	13.66	0.0	16.95	40.9	8.88	0.1
	MP-1-3D	16.07	5.7	20.9	0.0	16.18	5.74	0.2	16.4	6.01	0.2	16.5	6.43	0.8	16.69	11.68	0.4	16.91	20.9	5.41	0.0
	MP-1-4S	18.65	3.3	23.8	0.0	18.67	1.3	0.0	18.98	3.71	0.0	19.04	4.84	0.0	19.24	5.02	0.0	19.47	39.7	5.03	0.2
	MP-1-4D	18.83	12.24	26.3	0.1	18.86	19.17	0.0	19.16	11.67	0.0	19.06	18.04	1.5	19.45	14.58	0.0	19.66	30.3	3.24	0.6
	MP-1-5	23.41	14.81	20.9	0.0	23.51	21.79	0.0	23.74	17.31	0.0	23.85	14.39	0.0	24.03	24.38	0.0	24.21	21.4	7.39	0.2
	MP-1-6	16.89	7.51	22.3	0.0	15.95	11.79	0.0	16.20	23.31	0.0	16.28	6.97	0.0	16.47	6.54	0.0	16.70	21.5	3.83	0.0
	MP-1-7	19.15	0.63	20.9	0.0	19.20	0.37	0.0	19.47	0.63	0.0	19.57	0.48	0.8	19.76	0.45	0.7	19.97	20.9	1.02	0.0
	MP-1-8	20.22	14.23	20.9	0.0	20.25	12.94	0.0	20.54	14.66	0.0	20.64	16.49	0.0	20.82	6.27	0.0	21.03	34.3	4.10	0.0

		1/5/2012				1/23/2012			2/10/2012			2/23/2012			3/8/2012			3/22/2012			
	ID	DTW (ft)	DO (mg/L	O2 Headspace (%O2)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	O2 Headspace (%O2)	DO (mg/L)	PID (ppm)
System #2	MP-2-1	26.98	10.31	20.9	0.0	27.11	11.33	0.1	27.25	10.01	0.0	27.34	8.69	0.5	27.55	8.69	0.0	27.75	24.4	8.69	0.0
	MP-2-2	28.07	18.21	20.9	0.0	28.21	22.88	0.0	28.37	19.93	0.0	28.46	10.90	0.0	28.67	22.75	0.0	28.87	20.3	6.03	0.0
	MP-2-3S	28.19	21.12	20.9	0.0	28.30	6.57	0.4	28.47	7.44	0.0	28.58	7.97	0.9	28.76	7.34	0.0	28.98	20.9	1.65	0.2
	MP-2-3D	28.40	22.68	>40	0.0	28.51	26.97	0.0	28.70	24.49	0.9	28.77	17.28	0.0	28.94	24.41	0.6	29.18	39.8	1.71	0.0
	MP-2-4	16.94	46.51	24.7	0.2	17.07	21.40	0.0	17.23	23.32	0.1	17.31	18.49	0.0	17.53	12.67	0.2	17.74	27.9	12.67	0.0
	MP-2-5	15.08	38.11	>40	0.0	15.23	28.91	0.4	15.46	48.23	0.0	15.52	27.84	0.2	15.72	11.27	0.0	15.95	30.8	6.04	0.0

DTW: Depth to water (feet)
DO: Dissolved Oxygen concentration (percent or milligrams per liter)
PID: Photoionization Detector measurement of well headspace (parts per million)
NA: Not Accessible
NM: Not Measured

Table 4

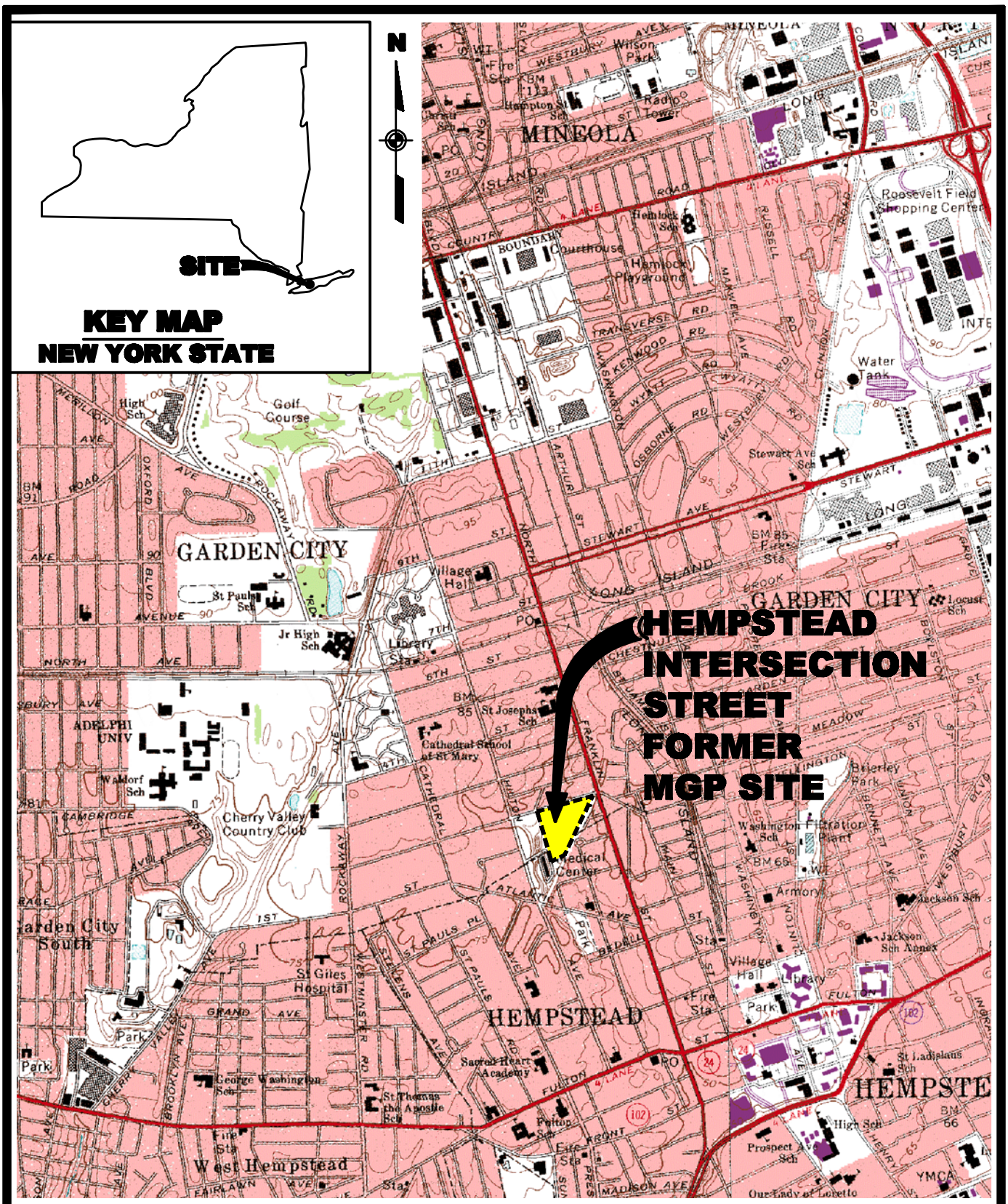
Dissolved-Phase Concentrations of Total BTEX and Total PAH Compounds for the First Quarter of 2012 Hempstead Intersection Street Former MGP Site

Well ID	First Quarter 2012 March 20 - March 28, 2012	
	BTEX [ug/L]	PAH [ug/L]
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D		
HIMW-003I		
HIMW-003S		
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	91 (DUP - 92)	2,698 (DUP- 2,315)
HIMW-005I	157	3,897
HIMW-005S	ND	ND
HIMW-008D	ND	ND
HIMW-008I	ND	ND
HIMW-008S	3	15
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	78	223
HIMW-012S	ND	ND
HIMW-013D	5	28
HIMW-013I	27	63
HIMW-013S		
HIMW-014D		
HIMW-014I	33	78
HIMW-015D	ND	ND
HIMW-015I	21 (DUP - 22)	60 (DUP - 66)
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-020I	710	3,968
HIMW-020S	3	ND
HIMW-022	45	17
HIMW-023	30	43
HIMW-024	827	808
HIMW-025	12	ND
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



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

SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUANDRANGLES:
FREEPORT, NY (1969)
LYNBROOK, NY (1969)

URS Corporation

LOCATION MAP

FIGURE 1

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\FIGURE-1.dwg 3/13/09 - 1 RAL

J:\11175065.00000\DB\GIS\ARCMAP\SITE MAP.mxd 4/30/2012

N

Second Street

IPR-1
HIMW-019S,I
HIVP-16
IPR-2
IPR-3
IPR-4
HIMW-001S,I,D
HIMW-003S,I,D
IPR-7
IPR-9
IPR-11
HIMW-006S,I,D
HIMW-004S,I,D
HIMW-005S,I,D
IPR-14
IPR-28
IPR-18
HIMW-016S,I
IPR-30
IPR-20
IPR-29
IPR-22
HIVP-19
HIMW-21
HIMW-008S,I,D
HIVP-20
HIMW-020S,I
HIMW-024
HIMW-023
HIMW-022
HIMW-013S,I,D
HIVP-18
HIMW-014I,D
HIMW-015I,D
PZ-02
HIMW-018S,I
PZ-03
IPR-8
IPR-5
IPR-25
IPR-26
PZ-08
IPR-27
IPR-6
HIMW-002S,I,D
OSMW-1
HIMW-011S,I,D
OSMW-2
OSMW-3
HIMW-010S,I,D
IPR-10
IPR-13
HIMW-007S,I,D
IPR-17
HIMW-009S,I,D
IPR-16
IPR-12A,B
IPR-15
IPR-19S,D
IPR-21
IPR-23
IPR-24
HIMW-017S
HIVP-21
HIMW-025
HIVP-17
HIMW-012S,I,D
HIVP-21
Washington
Franklin
Union
Main
Atlantic
Hilton
Bedell
Cathedral
Jackson
Fulton
Front

Legend

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

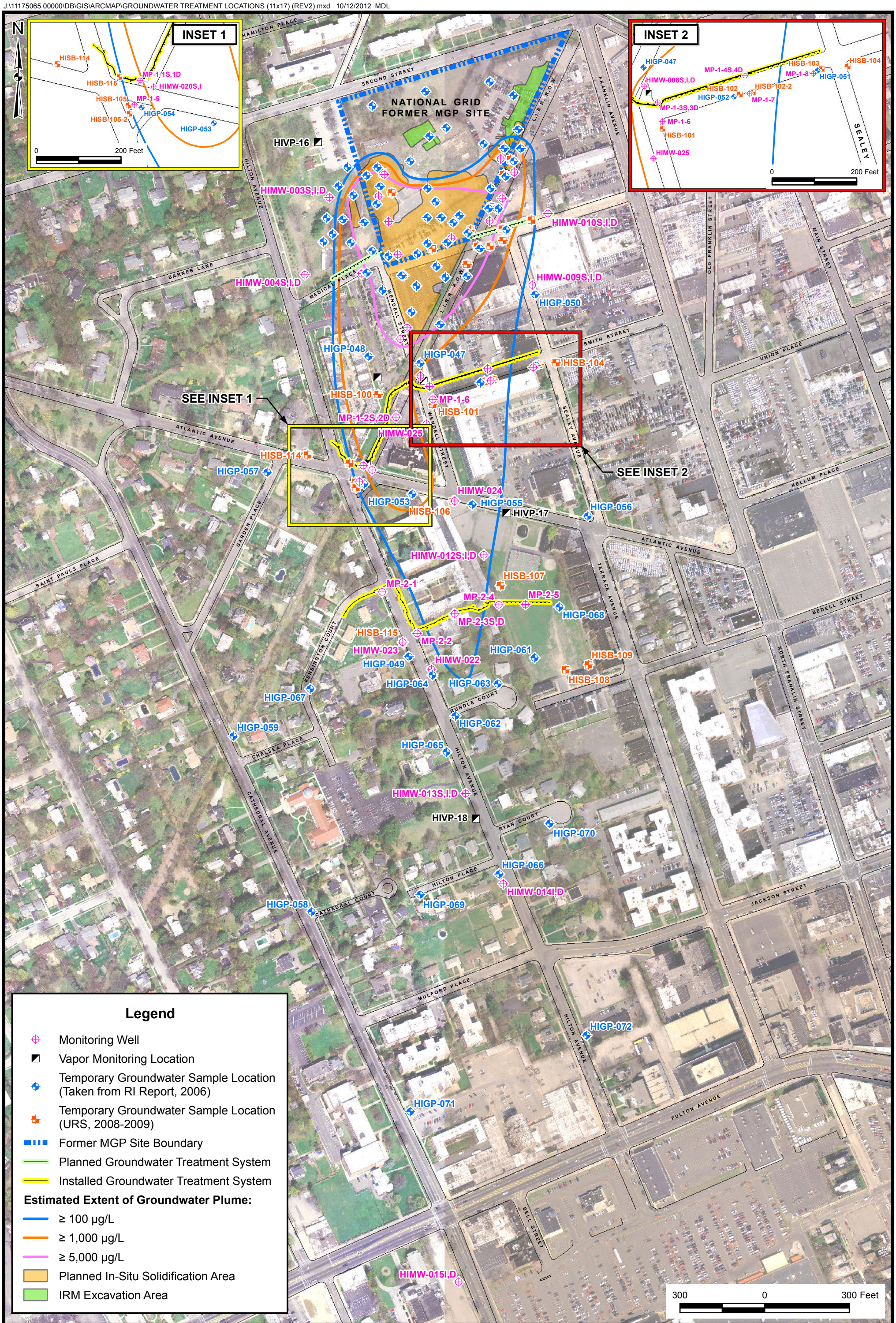
400 0 400 Feet

URS

HEMPSTEAD/GARDEN CITY, NY
SITE MAP

FIGURE 2

J:\11175065.00000\DB\GIS\ARCMAP\GROUNDWATER TREATMENT LOCATIONS (11x17) (REV2).mxd 10/12/2012 MDL



URS

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

FIGURE 3

HIGP-209 (11/11/08)

DEPTH	TOT. BTEX	TOT. PAHs
34–38	1,709	1,066
40–44	4,980	645
50–54	3,859	1,297
70–74	2	3

HIGP-40 (8/7/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	4,166	9,815
56–60	4	112

HIGP-49 (10/16/00)

DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
60–64	7	63
90–94	ND	16

HIGP-55 (9/7/00)

DEPTH	TOT. BTEX	TOT. PAHs
23–27	31	244
60–64	69	532
80–84	2	ND

HIGP-61 (11/8/00)

DEPTH	TOT. BTEX	TOT. PAHs
26–30	ND	ND
60–64	30	39
90–94	2	2

HIGP-66 (12/14/00)

DEPTH	TOT. BTEX	TOT. PAHs
40–44	ND	ND
56–60	8	60
72–76	398	787
90–94	12,970	259

HIGP-71 (11/6/01)

DEPTH	TOT. BTEX	TOT. PAHs
46–50	ND	ND
54–58	ND	ND
62–66	1	7
72–76	29	84
81–85	126	95

HIMW-09S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–16	ND–8
70–80	ND–2	ND
113–123	ND–16	ND–10

HIMW-15 I,D

DEPTH	TOT. BTEX	TOT. PAHs
80–90	5–111 (21)	ND–273 (80)
141.5–151.5	ND–94 (ND)	ND–1 (ND)

HISB-100 (11/19/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	12,000	1,576
50–54	441	332
60–64	1,470	599
70–74	747	1,809
80–84	22	21

HISB-104 (9/24/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
45–49	ND	ND
55–59	ND	ND

HISB-108 (12/9/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	12	1
80–84	20	1
90–94	26	2

HISB-116 (6/23/09)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	1.3	ND
60–64	100	192
70–74	6	37
80–84	91	330
90–94	100	451
100–104	292	604

HIGP-01 (8/7/00)

DEPTH	TOT. BTEX	TOT. PAHs
25–29	ND	ND
56–60	1	1

HIGP-41 (8/11/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	2,241	3,258
58–62	1	17

HIGP-50 (9/8/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	8
60–64	ND	ND

HIGP-56 (10/9/00)

DEPTH	TOT. BTEX	TOT. PAHs
24–28	ND	2
60–64	ND	ND

HIGP-62 (11/8/00)

DEPTH	TOT. BTEX	TOT. PAHs
37–41	8	4
54–58	771	152
84–89	45	89

HIGP-67 (12/20/00)

DEPTH	TOT. BTEX	TOT. PAHs
37–41	ND	ND
54–58	ND	ND
72–76	ND	27
90–94	ND	ND

HIGP-72 (11/6/01)

DEPTH	TOT. BTEX	TOT. PAHs
52–56	ND	ND
62–66	ND	ND
72–76	ND	ND
82–86	ND	ND
92–96	ND	ND

HIMW-10S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–33	1–150
80.5–90.5	ND–13	ND
112.5–132.5	ND–16	ND

HIMW-20S,I

DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–3 (3)	ND (ND)
63–73	1–224 (710)	ND–3,968 (3,968)

HISB-101 (11/19/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	122	190
40–44	14,100	4,356
50–54	4,040	3,244
60–64	1,995	2,074
70–74	4	4
80–84	1	2

HISB-105 (12/4/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	518
50–54	469	ND
60–64	1,043	3,058
70–74	60	59
80–84	279	576
90–94	48	99

HISB-109 (12/10/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	8	ND
60–64	19	ND
70–74	28	ND
80–84	31	2
90–94	ND	ND

HIGP-02 (8/8/00)

DEPTH	TOT. BTEX	TOT. PAHs
31–35	ND	ND
56–60	ND	ND

HIGP-44 (8/10/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	469	244
57–61	3	47

HIGP-51 (8/31/00)

DEPTH	TOT. BTEX	TOT. PAHs
28–32	ND	ND
58–60	ND	ND

HIGP-57 (9/21/00)

DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
64–68	ND	ND

HIGP-63 (12/15/00)

DEPTH	TOT. BTEX	TOT. PAHs
37–41	2	3
54–58	18	22
72–76	3,979	2,769
90–94	773	63

HIGP-68 (12/20/00)

DEPTH	TOT. BTEX	TOT. PAHs
37–41	3	5
54–58	163	300
72–76	ND	ND
90–94	ND	ND

HIMW-03S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
23–33	ND–36 (ND)	ND (ND)
80.5–90.5	ND–13 (ND)	ND (ND)
133–143	ND–8.2 (ND)	ND–30 (ND)

HIMW-12S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
22–32	ND–338.8 (ND)	ND–1,391 (ND)
63–73	29.2–256 (78)	65–527 (223)
117–127	ND–6 (ND)	ND–2 (ND)

HIMW-022

DEPTH	TOT. BTEX	TOT. PAHs
54–64	ND–45 (45)	ND–17 (17)

HISB-102 (12/1/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	1,800	2,706
40–44	835	1,119
50–54	225	2,735
60–64	ND	10
70–74	1	4
80–84	76	130

HISB-105(2) (12/18/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	15	19
40–44	14	35
50–54	247	912
60–64	560	2,941
70–74	59	34
80–84	14	69
90–94	24	221
100–104	1	ND

HISB-114 (12/23/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	ND	ND
80–84	ND	ND
90–94	ND	ND

HIGP-03 (7/28/00)

DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
56–60	ND	ND

HIGP-45 (10/17/00)

DEPTH	TOT. BTEX	TOT. PAHs
32–38	1,229	1,254
60–64	ND	ND

HIGP-52 (9/11/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	1,031	2,629
58–60	ND	ND

HIGP-58 (10/18/00)

DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
60–64	ND	ND
90–94	ND	ND

HIGP-64 (12/18/00)

DEPTH	TOT. BTEX	TOT. PAHs
37–41	27	17
54–58	4,031	1,574
72–76	401	239
90–94	14	48

HIGP-69 (9/24/01)

DEPTH	TOT. BTEX	TOT. PAHs
54–58	ND	ND
70–74	28	28
82–86	126	76
90–94	12	19
104–108	5	ND

HIMW-04S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
30–40	ND–4	ND–1
80–90	ND–13	ND
167–177	ND–4	ND–1

HIMW-13S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
38–48	ND–11 (ND)	ND (ND)
70–80	ND–313 (27)	58–156 (63)
110–120	2–30 (5)	ND–28 (28)

HIMW-023

DEPTH	TOT. BTEX	TOT. PAHs
66–76	1–43 (30)	ND–43 (43)

HISB-102(2) (1/8/09)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	423	859
40–44	464	274
50–54	349	652
60–64	68	453
70–74	5	5
80–84	ND	1

HISB-106 (12/4/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	418	602
40–44	1,162	383
50–54	1,800	2,513
60–64	815	572
70–74	68	51
80–84	38	30
90–94	124	98

HISB-115 (1/14/09)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	15
40–44	9	14
50–54	288	265
60–64	125	133
70–74	1,411	1,153
80–84	123	99
90–94	56	67

HITW-01 (9/21/01)

DEPTH	TOT. BTEX	TOT. PAHs
40–44	2	ND
54–58	3	6
70–74	95	278
82–86	293	274
90–94	45	44
109–113	210	1

HIGP-04 (7/24/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
56–60	ND	2

HIGP-47 (8/22/00)

DEPTH	TOT. BTEX	TOT. PAHs
31–35	6,670	18,715
60–64	500	369

HIGP-53 (9/1/00)

DEPTH	TOT. BTEX	TOT. PAHs
27–31	76	317
60–64	15	35
90–94	1	ND

HIGP-59 (10/17/00)

DEPTH	TOT. BTEX	TOT. PAHs
34–38	1	ND
60–64	ND	2
90–94	27	4

HIGP-65 (12/19/00)

DEPTH	TOT. BTEX	TOT. PAHs
37–41	2	ND
54–58	376	125
72–76	775	190
92–94	36	59

HIGP-70 (9/20/01)

DEPTH	TOT. BTEX	TOT. PAHs
54–58	ND	0
70–74	21	20
82–86	29	38
92–96	15	18
110–114	3	6
140–144	3	ND

HIMW-05S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
27–37	ND–232	ND–765
80–90	126–439 (157)	1,454–5,337 (3,897)
130–140	ND–359 (91)	ND–2,344 (2,698)

HIMW-14 I,D

DEPTH	TOT. BTEX	TOT. PAHs
85–95	24–273 (33)	26–288 (78)
140–150	ND–15 (ND)	ND (ND)

HIMW-024

DEPTH	TOT. BTEX	TOT. PAHs
44.6–54.6	671–900 (827)	792–1,020 (808)

HISB-103 (12/1/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	4	6
50–54	84	171
60–64	ND	ND
70–74	ND	ND
80–84	5	9

HISB-107 (12/8/08)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	217	47
50–54	551	258
60–64	29	68
70–74	ND	ND
80–84	ND	ND
90–94	24	8

HIGP-28 (8/4/00)

DEPTH	TOT. BTEX	TOT. PAHs
29–33	17	22
58–62	2,640	5,933

HIGP-48 (8/25/00)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	2
60–64	766	926

HIGP-54 (9/5/00)

DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	1
60–64	373	338
90–94	3	ND

HIGP-60 (10/19/00)

DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
60–64	ND	ND
90–94	ND	ND

HIMW-08S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–8,240 (3)	ND–3,069 (15)
63–73	ND–8.6 (ND)	ND–251 (ND)
102–112	ND–16 (ND)	ND–46 (ND)

HIMW-025

DEPTH	TOT. BTEX	TOT. PAHs
42–52	10–552 (12)	ND–573 (ND)

HISB-117 (4/22/10)

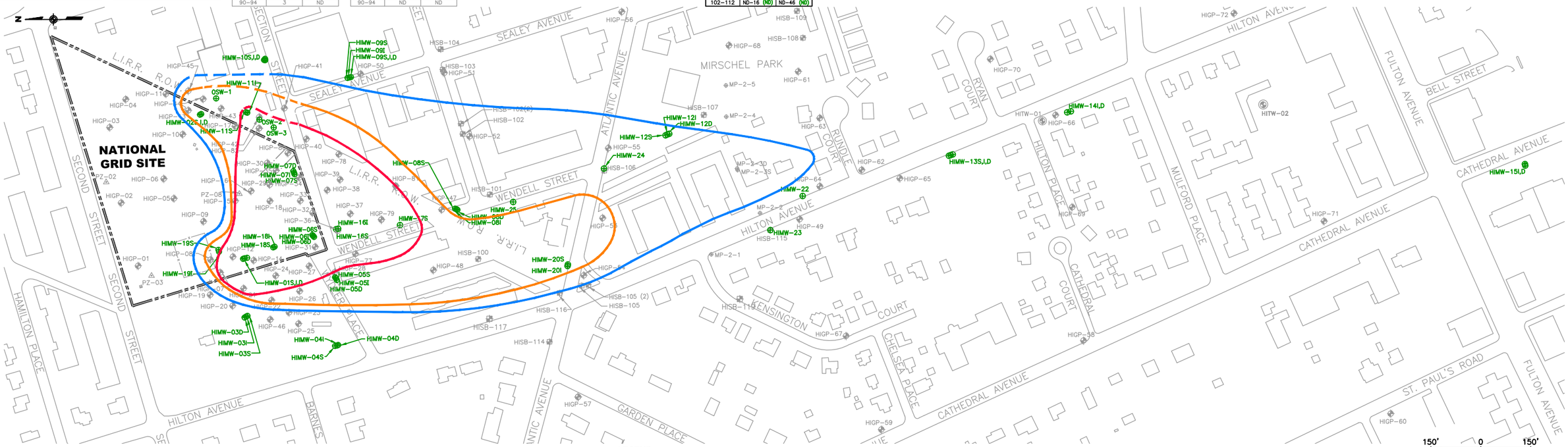
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	ND	2
80–84	2	32
90–94	ND	2
100–104	ND	ND

HISB-119 (4/14/10)

DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	2
40–44	ND	1
50–54	ND	2
60–64	ND	ND
70–74	ND	4
80–84	ND	16
90–94	ND	4

HITW-02 (10/31/01)

DEPTH	TOT. BTEX	TOT. PAHs
55–60	2	ND
65–70	5	9
75–80	9	40
85–90	29	52
115–120	42	ND
148–153	9	0



LEGEND:

HITW-02 TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006)

HIGP-53 TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006)

MP-2-1 MONITORING WELL

HIMW-13 MONITORING WELL

PZ-02 PIEZOMETER

HISB-114 TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008–2009)

ND NOT DETECTED

LOCATION ID → HIGP–60 (10/19/00) ← SAMPLE DATE

DEPTH (ft bgs) →

DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
60–64	ND	ND
90–94	ND	ND

← CONCENTRATION UNITS ARE ug/L (MARCH 2012 CONCENTRATION)

* SOME LOCATIONS ON SITE AND ADJACENT TO SITE ARE NOT SHOWN FOR FIGURE CLARITY.

EXISTING HOUSE OR BUILDING

NATIONAL GRID PROPERTY BOUNDARY

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 5,000 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. DASHED LINES REPRESENT CONTAMINATION CONCENTRATIONS THAT ARE LIKELY INFLUENCED BY THIRD PARTY SOURCES.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\TRENDS\OCTOBER\FIGURE 4-B.dwg 10/10/12 - 5 RAL

URS Corporation

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

EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS

FIGURE 4

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\MARCH 2012\FIGURE 5.dwg 5/8/12 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

PZ-02, NM
PZ-03, NM
HIMW-02S, 49.07
OSMW-1, NM
HIMW-03S, 48.82
HIMW-18S, NM
HIMW-11S, 48.87
HIMW-10S, 49.22
OSMW-2, NM
OSMW-3, NM
IPR-14, 48.44
IPR-15, 48.48
HIMW-04S, 48.15
IPR-19S, NM
HIMW-05S, 48.24
IPR-21, 48.32
HIMW-09S, 48.23
HIMW-016S, 48.57
IPR-20, 48.22
IPR-23, 48.15
IPR-22, 47.91
IPR-24, 48.01
HIMW-17S, 48.01
HIMW-8S, 47.69
HIMW-20S, 47.16
HIMW-12S, 46.38
HIMW-13S, 44.25

49
48.5
48
47.5
47
46.5
46
45.5
45
44.5

SECOND STREET
HILTON AVENUE
BARNES LANE
ATLANTIC AVENUE
GARDEN PLACE
CATHEDRAL AVENUE
CHELSEA PLACE
KENSINGTON COURT
MULFORD PLACE
CATHEDRAL COURT
HILTON PLACE
RUNDLE COURT
RYAN COURT
MIRSCHEL PARK
JACKSON STREET
FULTON AVENUE
ST. PAUL'S
BELL STREET
CATHEDRAL AVEN
L.I.R.R. R.O.W.
WENDELL STREET
SEALEY AVENUE
FRANKLIN AVENUE
OLD FRANKLIN STREET
MAIN STREET
SMITH STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
MILLER PLACE
UNION PLACE
KELLUM PLACE
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA ST
HAMILTON PLACE

LEGEND:

⊕	MONITORING WELL
⊞	IPR WELL
△	PIEZOMETER
→	GROUNDWATER FLOW DIRECTION
44	POTENTIOMETRIC SURFACE CONTOUR
- - -	FORMER MGP SITE BOUNDARY
HIMW-8S, 45.74	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 SHALLOW GROUNDWATER
MARCH 20, 2012

FIGURE 5

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\MARCH 2012\FIGURE 6.dwg 5/8/12 - 3 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-02I, 54.05
HIMW-11I, 48.84
HIMW-10I, 49.29
HIMW-03I, 48.57
HIMW-05I, 48.39
IPR-17, 48.6
IPR-16, 48.54
HIMW-04I, 48.09
IPR-19D, 48.38
HIMW-16I, 48.3
HIMW-09I, 48.18
IPR-18, 48.32
HIMW-08I, 47.66
HIMW-25, 47.5
HIMW-20I, 47.2
HIMW-24, 46.93
HIMW-12I, 46.53
HIMW-23, 45.91
HIMW-22, 46.69
HIMW-13I, 44.24
HIMW-14I, 44.13
HIMW-15I, 40.9

53
52
51
50
49
48
47
46
45
44
43
42
41

SECOND STREET
HILTON AVENUE
BARNES LANE
WYDLER PLACE
WENDELL STREET
L.I.R.R. R.O.W.
FRANKLIN AVENUE
SEALEY AVENUE
OLD FRANKLIN STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
MAIN STREET
MILLER PLACE
UNION PLACE
INTERSECTION STREET
SMITH STREET
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
RUNDLE COURT
RYAN COURT
NORTH FRANKLIN STREET
WEST COLUMBIA
KELLUM PLACE
JACKSON STREET
HILTON PLACE
CATHEDRAL COURT
MULFORD PLACE
FULTON AVENUE
BELL STREET
ST. PAUL'S

LEGEND:

⊕	MONITORING WELL
⊞	IPR WELL
→	GROUNDWATER FLOW DIRECTION
44	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 INTERMEDIATE GROUNDWATER
MARCH 20, 2012

FIGURE 6

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\MARCH 2012\FIGURE 7.dwg 5/8/12 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-02D, 49.11
HIMW-03D, 48.29
HIMW-11D, 48.8
HIMW-10D, NM
HIMW-05D, 47.62
HIMW-04D, 47.55
HIMW-09D, 48.11
HIMW-8D, 47.63
HIMW-12D, 45.12
HIMW-13D, 44.18
HIMW-14D, 42.31
HIMW-15D, 39.64

49
48
47
46
45
44
43
42
41
40

SECOND STREET
HILTON AVENUE
BARNES LANE
WYDLER PLACE
WENDELL STREET
L.I.R.R. R.O.W.
INTERSECTION STREET
SEALEY AVENUE
SMITH STREET
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMS PLACE
OLD FRANKLIN STREET
MILLER PLACE
UNION PLACE
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
KELLUM PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA
RUNDLE COURT
RYAN COURT
CATHEDRAL COURT
HILTON PLACE
JACKSON STREET
MULFORD PLACE
FULTON AVENUE
BELL STREET
ST. PAUL'S

LEGEND:

⊕	MONITORING WELL
→	GROUNDWATER FLOW DIRECTION
43	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

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
MARCH 20, 2012

FIGURE 7

J:\11175065.00000\DB\GIS\ARCMAP\0312 BTEXPAH-NAPL.mxd 5/11/2012

LOCID	BTEX [ug/L]	PAH [ug/L]	DNAPL (ft)	LNAPL (ft)
HIMW-003D				
HIMW-003I				
HIMW-003S				
HIMW-005D	91	2,698		
HIMW-005I	157	3,897		
HIMW-005S				
HIMW-008D				
HIMW-008I				
HIMW-008S	3	15		
HIMW-011D				
HIMW-011I				
HIMW-011S				trace
HIMW-012D				
HIMW-012I	78	223		
HIMW-012S				
HIMW-013D	5	28		
HIMW-013I	27	63		
HIMW-013S				
HIMW-014D				
HIMW-014I	33	78		
HIMW-015D				
HIMW-015I	21	60		
HIMW-016I			4.7	
HIMW-016S			5.5	
HIMW-017S			5.0	
HIMW-020I	710	3968		
HIMW-020S	3			
HIMW-021			3.0	
HIMW-022	45	17		
HIMW-023	30	43		
HIMW-024	827	808		
HIMW-025	12			
IPR-15				
IPR-16				
IPR-17				
IPR-18				
IPR-19D				
IPR-20			1.15	
IPR-21				
IPR-22				
IPR-24				
IPR-29			3.5	
IPR-30				

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
µg/L - Micrograms per Liter
ft - Feet of Product Thickness

URS

HEMPSTEAD/GARDEN CITY, NY
TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS
AND FREE PRODUCT THICKNESS
FIRST QUARTER 2012

FIGURE 8

APPENDIX A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

APPENDIX A
DATA USABILITY SUMMARY REPORT
FIRST 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

JUNE 2012

TABLE OF CONTENTS

TABLES
(Following Text)

APPENDICES
(Following Tables)

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 (20) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, and two (2) trip blanks collected by URS personnel on March 21-28, 2012. The samples were collected as part of the 2012 first 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 (instrument tunes, calibration standards, 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.

Qualifications applied to the data during the data validation process include "J" (estimated) and 'UJ' (estimated quantitation limit). 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), except for the following instances, where no qualification of the data was necessary.

- For sample HIMW-15I, one of two 1-liter amber bottles were received broken at the laboratory. Since sufficient sample volume remained for PAH analysis, no further action by the laboratory was deemed necessary.

- For sample HIMW-12S, one of three BTEX vials were received with a broken cap at the laboratory. Since sufficient sample volume remained for BTEX analysis, no further action by the laboratory was deemed necessary.
- For sample HIMW-08S, one of three BTEX vials contained headspace (6 mm) upon receipt at the laboratory. Since sufficient sample volume remained for BTEX analysis, no further action by the laboratory was deemed necessary.

All samples were analyzed within the required holding times, except for the following instance.

- For sample HIMW-12S, the PAH re-extraction analysis was performed 10 days outside holding time (i.e., 7 days to extract from date of collection). The results for this sample (all non-detect) were qualified 'UJ'. Documentation supporting the qualification of data (i.e., extraction log) is presented in Attachment B.

V. NON-CONFORMANCES

The initial PAH analysis for sample HIMW-12S exhibited low surrogate recoveries. The subsequent re-extraction/reanalysis, which was performed outside holding time as noted above, had surrogate recoveries within QC limits. The re-extraction/reanalysis results for this sample were reported in their entirety and qualified 'UJ'.

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.

The laboratory case narratives for indicated that results associated with calibration outliers were qualified 'Z'. Since all calibrations were within USEPA Region II data validation criteria, the laboratory qualifier 'Z' was crossed out on the affected Form 1s.

Field duplicates were collected from monitoring well locations HIMW-05D and HIMW-15I, 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, except for those results qualified 'J' or 'UJ', which should be considered conditionally usable. URS does not recommend the re-collection of any samples at this time.

Prepared By: Peter R Fair **Date:** 6/20/12

Peter R. Fairbanks, Senior Chemist

Reviewed By: **Date:** 6/20/12

George E. Kisluk, Senior Chemist

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-005D	HIMW-005D	HIMW-005I	HIMW-005S	HIMW-008D
Sample ID			DUP-032712	HIMW-5D	HIMW-5I	HIMW-5S	HIMW-8D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/27/12	03/27/12	03/28/12	03/27/12
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
Benzene	UG/L	-	3	3	4	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1 U	2	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1	1 U	1 U
Xylene (total)	UG/L	-	89	88	150	1 U	1 U
Total BTEX	UG/L	100	92	91	157	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	220 DJ	280 DJ	510 D	10 U	10 U
Acenaphthene	UG/L	-	6 J	7 J	23	10 U	10 U
Acenaphthylene	UG/L	-	77	100 DJ	290 DJ	10 U	10 U
Anthracene	UG/L	-	10 U	10 U	4 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	-	12	11	40	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	-	2,000 D	2,300 D	3,000 D	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U	30	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	2,315	2,698	3,897	ND	ND

*Criteria- Goundwater 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.

UJ - Not detected. The reported quantitation limit is an estimated value.

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

Made By_PRF 05/14/12_; Checked By_AMK 05/14/12_

Detection Limits shown are PQL

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

Location ID			HIMW-008I	HIMW-008S	HIMW-012D	HIMW-012I	HIMW-012S
Sample ID			HIMW-8I	HIMW-8S	HIMW-12D	HIMW-12I	HIMW-12S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/27/12	03/28/12	03/22/12	03/22/12	03/26/12
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	1 U	65	1 U
Ethylbenzene	UG/L	-	1 U	1 U	1 U	5	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	3	1 U	8	1 U
Total BTEX	UG/L	100	ND	3	ND	78	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	2 J	10 U	10 U	10 UJ
Acenaphthene	UG/L	-	10 U	10 U	10 U	77	10 UJ
Acenaphthylene	UG/L	-	10 U	3 J	10 U	70	10 UJ
Anthracene	UG/L	-	10 U	10 U	10 U	2 J	10 UJ
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Fluorene	UG/L	-	10 U	10 U	10 U	49	10 UJ
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10	10 U	4 J	10 UJ
Phenanthrene	UG/L	-	10 U	10 U	10 U	21	10 UJ
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 UJ
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	15	ND	223	ND

*Criteria- Goundwater 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.

UJ - Not detected. The reported quantitation limit is an estimated value.

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

Made By_PRF 05/14/12_; Checked By_AMK 05/14/12_

Detection Limits shown are PQL

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

Location ID			HIMW-013D	HIMW-013I	HIMW-014I	HIMW-015D	HIMW-015I
Sample ID			HIMW-13D	HIMW-13I	HIMW-14I	HIMW-15D	DUP-032312
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/21/12	03/21/12	03/21/12	03/23/12	03/23/12
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
Benzene	UG/L	-	3	24	26	1 U	20
Ethylbenzene	UG/L	-	1 U	1 U	2	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	2	3	5	1 U	2
Total BTEX	UG/L	100	5	27	33	ND	22
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	10	5 J	27	10 U	12
Acenaphthylene	UG/L	-	18	33	29	10 U	46
Anthracene	UG/L	-	10 U	2 J	2 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	9 J	9 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	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	14	11	10 U	8 J
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	28	63	78	ND	66

*Criteria- Goundwater 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.

UJ - Not detected. The reported quantitation limit is an estimated value.

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

Made By_PRF 05/14/12_; Checked By_AMK 05/14/12_

Detection Limits shown are PQL

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

Location ID			HIMW-015I	HIMW-020I	HIMW-020S	HIMW-022	HIMW-023
Sample ID			HIMW-15I	HIMW-20I	HIMW-20S	HIMW-22	HIMW-23
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/23/12	03/23/12	03/23/12	03/26/12	03/22/12
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	19	49	1 U	22	19
Ethylbenzene	UG/L	-	1 U	32	1 U	11	1
Toluene	UG/L	-	1 U	89	1 U	1 U	1 U
Xylene (total)	UG/L	-	2	540 D	3	12	14
Total BTEX	UG/L	100	21	710	3	45	34
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	660 D	10 U	10 U	23
Acenaphthene	UG/L	-	11	22	10 U	2 J	2 J
Acenaphthylene	UG/L	-	42	320 DJ	10 U	11	11
Anthracene	UG/L	-	10 U	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	2 J	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	44	10 U	10 U	2 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	2,900 D	10 U	4 J	5 J
Phenanthrene	UG/L	-	7 J	20	10 U	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	60	3,968	ND	17	43

*Criteria- Goundwater 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.

UJ - Not detected. The reported quantitation limit is an estimated value.

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

Made By_PRF 05/14/12_; Checked By_AMK 05/14/12_

Detection Limits shown are PQL

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

Location ID			HIMW-024	HIMW-025
Sample ID			HIMW-24	HIMW-25
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			03/26/12	03/26/12
Parameter	**Units**	**Criteria***		
Volatile Organic Compounds				
Benzene	UG/L	-	450 D	1 U
Ethylbenzene	UG/L	-	250 D	1 U
Toluene	UG/L	-	7	1 U
Xylene (total)	UG/L	-	120	12
Total BTEX	UG/L	100	827	12
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	27	10 U
Acenaphthene	UG/L	-	40	10 U
Acenaphthylene	UG/L	-	74	10 U
Anthracene	UG/L	-	4 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	-	16	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U
Naphthalene	UG/L	-	620 D	10 U
Phenanthrene	UG/L	-	27	10 U
Pyrene	UG/L	-	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	808	ND

*Criteria- Goundwater 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.

UJ - Not detected. The reported quantitation limit is an estimated value.

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

Made By_PRF 05/14/12_; Checked By_AMK 05/14/12_

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
Sample ID			TB	FB-032812	TB
Matrix			Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-
Date Sampled			03/21/12	03/28/12	03/28/12
Parameter	**Units**	**Criteria***	Trip Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Benzene	UG/L	-	1 U	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	1 U
Total BTEX	UG/L	100	ND	ND	ND
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/L	-	NA	10 U	NA
Acenaphthene	UG/L	-	NA	10 U	NA
Acenaphthylene	UG/L	-	NA	10 U	NA
Anthracene	UG/L	-	NA	10 U	NA
Benzo(a)anthracene	UG/L	-	NA	10 U	NA
Benzo(a)pyrene	UG/L	-	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	-	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	-	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	-	NA	10 U	NA
Chrysene	UG/L	-	NA	10 U	NA
Dibenz(a,h)anthracene	UG/L	-	NA	10 U	NA
Fluoranthene	UG/L	-	NA	10 U	NA
Fluorene	UG/L	-	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	-	NA	10 U	NA
Naphthalene	UG/L	-	NA	10 U	NA
Phenanthrene	UG/L	-	NA	10 U	NA
Pyrene	UG/L	-	NA	10 U	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	ND	NA

*Criteria- Goundwater 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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 05/14/12_; Checked By_AMK 05/14/12_

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1'S

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14440.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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	3	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	88	Z

5/3/12

KEY-URS150 S18

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-032712

Lab Name: H2M LABS INC Contract: _____ (H1MW-05D)

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14450.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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	3	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	89	~~U~~

5/3/12

KEY-URS150 S29

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14441.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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	4	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	2	U
1330-20-7	Xylene (total)	150	U

5/3/12
N

KEY-URS150 S19

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14442.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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-URS150 S20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14443.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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-URS150 S21

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14444.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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-URS150 S22

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14445.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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)	3	~~U~~

5/3/12

KEY-URS150 S23

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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14421.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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.

HIMW-12I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14422.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	65	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	5	
1330-20-7	Xylene (total)	8	

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-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14446.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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-URS150 S24

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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14423.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	3	
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-13I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14424.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	24	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	3	

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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14425.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	26	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene (total)	5	

1A

VOLATILE 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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14426.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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.

HIMW-15I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14427.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	19	
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.

DUP-032312

(HMW-15I)

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14420.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	20	
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-20I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14428.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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	49	
108-88-3	Toluene	89	
100-41-4	Ethylbenzene	32	
1330-20-7	Xylene (total)	540 ~~570~~	BD

5/14/12

1A

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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-009ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14437.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 04/02/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 2.00

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	45	D
108-88-3	Toluene	80	D
100-41-4	Ethylbenzene	28	D
1330-20-7	Xylene (total)	540	D

4/23/12

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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14431.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 03/31/12

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)	3	

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-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14447.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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	22	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	11	~~U~~
1330-20-7	Xylene (total)	12	~~U~~

5/3/12

KEY-URS150 S25

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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14438.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 04/02/12

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	19	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene (total)	14	

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-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14448.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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	450	E D
108-88-3	Toluene	7	J
100-41-4	Ethylbenzene	250 ~~230~~	E J D
1330-20-7	Xylene (total)	120	J

5/3/12

KEY-URS150 S26

1A

VOLATILE 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-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-009ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14476.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/04/12

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

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	450	D
108-88-3	Toluene	8	D
100-41-4	Ethylbenzene	250	D
1330-20-7	Xylene (total)	130	D

5/3/12

KEY-URS150 S27

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-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-010A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14449.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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)	12	~~U~~

5/3/12

KEY-URS150 S28

1C

EPA SAMPLE NO.

HIMW-5D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64454.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2300 ~~1200~~	~~E~~ D
91-57-6	2-Methylnaphthalene	280 ~~410~~	~~E~~ DJ
208-96-8	Acenaphthylene	100 ~~83~~	~~E~~ DJ
83-32-9	Acenaphthene	7	J
86-73-7	Fluorene	11	
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

5/7/12

KEY-URS150 S33

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RIMW-5DDL

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 12\R9089.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2300	D
91-57-6	2-Methylnaphthalene	280	DJ
208-96-8	Acenaphthylene	100	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

5/7/12

1C

EPA SAMPLE NO.

DUP-032712

(H1MW-05D)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-011B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64466.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2000 ~~1100~~	~~EJ~~
91-57-6	2-Methylnaphthalene	220 ~~360~~	~~EDJ~~
208-96-8	Acenaphthylene	77	
83-32-9	Acenaphthene	6	J
86-73-7	Fluorene	12	
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

KEY-URS150 S47

1C

EPA SAMPLE NO.

DUP-032712DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

(HIMW-05D)

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-011BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 12\R9092.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2000	D
91-57-6	2-Methylnaphthalene	220	DJ
208-96-8	Acenaphthylene	94	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

5/7/12

2

KEY-URS150 S48

1C

EPA SAMPLE NO.

HIMW-5I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64457.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	3000 ~~1700~~	ED
91-57-6	2-Methylnaphthalene	510 ~~730~~	ED
208-96-8	Acenaphthylene	290 ~~180~~	EDJ
83-32-9	Acenaphthene	23	
86-73-7	Fluorene	40	
85-01-8	Phenanthrene	30	
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

5/7/12

KEY-URS150 S35

1C

EPA SAMPLE NO.

HIMW-5IDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 12\R9090.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	3000	D
91-57-6	2-Methylnaphthalene	510	D
208-96-8	Acenaphthylene	290	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

5/7/12

KEY-URS150 S36

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64458.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64459.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

EPA SAMPLE NO.

HIMW-8I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64460.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-006B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 12\R9093.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	2	J
208-96-8	Acenaphthylene	3	J
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-12D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50435.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50436.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	4	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	70	
83-32-9	Acenaphthene	77	
86-73-7	Fluorene	49	
85-01-8	Phenanthrene	21	
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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12SRE

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-007B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 12\R9181.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 04/12/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/17/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

5/14/12

KEY-URS150 S42 REVISED KV 11-May-12

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-007B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 12\R9087.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

5/7/12

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50437.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	18	
83-32-9	Acenaphthene	10	
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-13I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50438.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	33	
83-32-9	Acenaphthene	5	J
86-73-7	Fluorene	9	J
85-01-8	Phenanthrene	14	
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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-14I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-006B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50439.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	29	
83-32-9	Acenaphthene	27	
86-73-7	Fluorene	9	J
85-01-8	Phenanthrene	11	
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

1C

EPA SAMPLE NO.

HIMW-15D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-007B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50440.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-008B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50441.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	42	
83-32-9	Acenaphthene	11	
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	7	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-032312

(HIMW-15I)

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50434.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	46	
83-32-9	Acenaphthene	12	
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	8	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

EPA SAMPLE NO.

HIMW-20I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-009B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50444.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2900 ~~1100~~	~~E D~~
91-57-6	2-Methylnaphthalene	660 ~~490~~	~~E D~~
208-96-8	Acenaphthylene	320 ~~240~~	~~E D~~ J
83-32-9	Acenaphthene	22	
86-73-7	Fluorene	44	
85-01-8	Phenanthrene	20	
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	2	J
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

4/23/12

1C

EPA SAMPLE NO.

HIMW-20IDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-009BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2\N50449.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 40.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	2800	D
91-57-6	2-Methylnaphthalene	660	D
208-96-8	Acenaphthylene	320	DJ
83-32-9	Acenaphthene	400	U
86-73-7	Fluorene	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) Cannot be separated from Diphenylamine

4/23/12

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-20S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-010B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50447.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-22

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-008B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64463.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	4	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	2	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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-23

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-011B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\N50448.D

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/26/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/28/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	5	J
91-57-6	2-Methylnaphthalene	23	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	2	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

EPA SAMPLE NO.

HIMW-24

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-009B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64464.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	620 ~~360~~	E(1)
91-57-6	2-Methylnaphthalene	27	
208-96-8	Acenaphthylene	74	
83-32-9	Acenaphthene	40	
86-73-7	Fluorene	16	
85-01-8	Phenanthrene	27	
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

5/7/12

KEY-URS150 S44

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-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-009BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 12\R9091.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	620	D
91-57-6	2-Methylnaphthalene	15	DJ
208-96-8	Acenaphthylene	89	DJ
83-32-9	Acenaphthene	46	DJ
86-73-7	Fluorene	18	DJ
85-01-8	Phenanthrene	29	DJ
120-12-7	Anthracene	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U

(1) Cannot be separated from Diphenylamine

5/7/12

KEY-URS150 S45

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-25

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-010B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\C64465.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/03/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-032812

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14451.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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-URS150 S30

1C

EPA SAMPLE NO.

FB-032812

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-012B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 12\R9088.D

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: Decanted: (Y/N) N Date Extracted: 03/29/12

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 04/11/12

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

KEY-URS150 S49

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS148

Matrix: (soil/water) WATER Lab Sample ID: 1203868-012A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14439.

Level: (low/med) LOW Date Received: 03/23/12

% Moisture: not dec. Date Analyzed: 04/02/12

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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS150

Matrix: (soil/water) WATER Lab Sample ID: 1203991-013A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 12\G14452.

Level: (low/med) LOW Date Received: 03/28/12

% Moisture: not dec. Date Analyzed: 04/02/12

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-URS150 S31

ATTACHMENT B

SUPPORT DOCUMENTATION

KEY-URS 148

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11176098

SITE NAME National Grid - Hempstead

SAMPLERS (PRINT/SIGNATURE) C. Friedman / Cory Fair

LAB Hzm

COOLER 3 of 3

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: BTEX; PAHs

BOTTLE TYPE AND PRESERVATIVE: 40 ml amber - HCl; 1L Amber

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 ml amber - HCl	1L Amber						REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
HIMW-14	3/21/12	1100	G	HIMW-14I	WG	4	2	2			1203868-			006	N1			
HIMW-13	3/21/12	1245		HIMW-13D										004	N2			
↓	3/21/12	1355		HIMW-13I										005	N3			
HIMW-23	3/22/12	1255		HIMW-23										~~002~~ 011	N1			
HIMW-12	3/22/12	1440		HIMW-12D										~~002~~ ~~003~~	N2			
↓	3/22/12	1610		HIMW-12I										-003	N3			
HIMW-15	3/23/12	845		HIMW-15D										007	N1			
↓	3/23/12	1000		HIMW-15I										008	N2			
HIMW-20I	3/23/12	1155		HIMW-20I										009	N3			
	3/23/12	1210		HIMW-20MS											MS1			
↓	3/23/12	1225		HIMW-20MSD	↓	↓	↓	↓						↓	MSD1			
	3/23/12	1200	↓	DUP-032312	WG	4	2	2						-001	FR1			
				TB	WQ	2	2							-012	TB1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Cory Fair	3/23/12	1518	S.V.	3.23.12	15.18
S.V.	3.23.12	16.13			

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				3/23/12	16:13

SPECIAL INSTRUCTIONS: Please call Peter Fairbanks w/ any questions 716 856 5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

KEY-URS148 S3

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11176098

SITE NAME National Grid Hempstead

SAMPLERS (PRINT/SIGNATURE) C. Friedman / Cory Fl

LAB H2M

COOLER 3 of 3

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: BTEX; PAHs

BOTTLE TYPE AND PRESERVATIVE: 40 ml Amber HCl; 1L Amber glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 ml Amber HCl	1L Amber glass						REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
HIMW-20S	3/23/12	1345	G	HIMW-20S	WG	4	2	2			1203868-			-010				

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Cory Fl	3/23/12	15:18	S. West	3.23.12	15.18
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
S. West	3.23.12	16.13		3/23/12	16:13

SPECIAL INSTRUCTIONS: Please call Peter Fairbanks w/any questions 716 856 5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

KEY-URS148 S4

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name **KEY-URS** Date and Time Receive **3/23/2012 4:13:00 PM**

Work Order Numbe **1203868** RcptNo: 1 Received by **Linda Siciliano**

Completed b Reviewed by:

Completed Date: 3/28/2012 10:07:30 AM Reviewed Date: 3/27/2012 3:39:07 PM

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☐	No ☑	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	3.1 To 5.6 °
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: SDG: KEY-URS148 SAS:

Adjusted? _____ Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Contacted? ☐ Yes ☑ No ☐ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

CorrectiveAction:

Comments:
Sample "DUP-032312" - one of the two liter glass bottles was received empty/cap broken.

KEY-URS148 S6

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 3/23/12
SDG #: KEY-URS148

For Sample(s):

DUP-032312	HIMW-15D
HIMW-12D	HIMW-15I
HIMW-12I	HIMW-20I
HIMW-13D	HIMW-20S
HIMW-13I	HIMW-23
HIMW-14I	TRIP BLANK

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-20I was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). All percent recoveries and RPDs were met except for the percent recovery for total xylene, as the spike amount was not a surrogate of the sample concentration. 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.

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: April 11, 2012
Date Revised: April 25, 2012

****
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****
Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 3/23/12
SDG #: KEY-URS148

For Sample(s):

DUP-032312	HIMW-15D
HIMW-12D	HIMW-15I
HIMW-12I	HIMW-20I
HIMW-13D	HIMW-20S
HIMW-13I	HIMW-23
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-20I was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were met. A lab fortified blank was analyzed and indicates good method efficiency. All compounds recovered within Q.C. limits.

Samples HIMW-20I was reanalyzed at a dilution due to concentration levels of 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: April 11, 2012

****
* *
* *
****
Joann M. Slavin
Senior Vice President

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11176098

SITE NAME National Grid - Hempstead

SAMPLERS (PRINT/SIGNATURE) C. Friedman

LAB HzM

COOLER 3 of 3

PAGE 1 of 1

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: BTEX; PAHs

BOTTLE TYPE AND PRESERVATIVE: 40 ml amber vial; 1L Amber Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 ml amber vial	1L Amber Glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
HIMW-22	3/26/12	855	G	HIMW-22	WG	4	X	X	1203491-008	N1			
HIMW-24	3/26/12	1045		HIMW-24					-009	N2			
HIMW-25	3/26/12	1215		HIMW-25					-010	N3			
HIMW-12	3/26/12	1345		HIMW-12S					-007	N4			
HIMW-5	3/27/12	725		HIMW-5D					-001	N1			
↓	3/27/12	840		HIMW-5I					-002	N2			
HIMW-8	3/27/12	1150		HIMW-8D					-004	N3			
↓	3/27/12	1345		HIMW-8I					-005	N4			
HIMW-5	3/28/12	715		HIMW-5S					-003	N1			
HIMW-8	3/28/12	940		HIMW-8S					-006	N2			
	3/28/12	0800		FB-032812					-012	RB1			
	3/27/12	1200		DUP-032712	↓	↓	↓	↓	-011	FR1			
				TB					-013	TB1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/28/12	10.24	S. Wall	3/28/12	10.24
RELINQUISHED BY (SIGNATURE) S. Wall	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	3/28/12	11.02		3/28/12	11:02

SPECIAL INSTRUCTIONS: Please call Peter Fairbanks w/ any questions 716 856 5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

KEY-URS150 S3

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

KEY-URS150

Sample Receipt Checklist

Client Name KEY-URS | Date and Time Receive 3/28/2012 11:02:00 AM

Work Order Numbe 1203991 | RcptNo: 1 | Received by Tamika Ricks

Completed b | Reviewed by:

Completed Date: 3/28/2012 | Reviewed Date: 3/29/2012 10:04:03 AM

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	2.3 To 4.2 °
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☑	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☐	Broken ☑	Leaking ☐

Case Number: | SDG: KEY-URS150 | SAS:

Adjusted? _____ Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

KEY-URS150 S4

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Contacted? ☐ Yes ☑ No ☐ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

CorrectiveAction:
There are spares.

Comments:
Sample#1203991-007A, client sample#HIMW-12S the cap of one of the vials was received broken.
Sample#1203391-006A, client sample#HIMW-8S headspace of 6mm in one of the vials.

KEY-URS150 S5

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 3/28/12
SDG #: KEY-URS150

For Sample(s):

HIMW-5D	HIMW-22
HIMW-5I	HIMW-24
HIMW-5S	HIMW-25
HIMW-8D	DUP-032712
HIMW-8I	FB-032812
HIMW-8S	TB
HIMW-12S	

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:

No matrix spike/matrix spike duplicate was submitted. A lab fortified blank was analyzed and indicates good method efficiency.

Sample HIMW-24 was reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range.

Targeted analytes that were detected in the samples with a %D greater than 15% are flagged with a "Z" qualifier.

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: April 23, 2012

****
* Joann M. Slavin *
****
Joann M. Slavin NRC
Senior Vice President

KEY-URS150 S11

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 3/28/12
SDG #: KEY-URS150

For Sample(s):

HIMW-5D	HIMW-12S
HIMW-5I	HIMW-22
HIMW-5S	HIMW-24
HIMW-8D	HIMW-25
HIMW-8I	DUP-032712
HIMW-8S	FB-032812

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:

No matrix spike/matrix spike duplicate were submitted. All percent recoveries and RPDs were met. A lab fortified blank was analyzed and indicates good method efficiency. All compounds recovered within Q.C. limits.

Samples HIMW-5D, HIMW-5I, DUP-032712 had surrogate recoveries above Q.C. limits. Sample HIMW-12S had surrogate recoveries below Q.C. limits. The sample was re-extracted however outside of the analytical holding time. All surrogate recoveries were within Q.C. limits in the re-extract. Both sets of data were submitted.

Samples HIMW-5D, HIMW-5I and DUP-032712 had low internal standard area counts. All area counts were acceptable in the dilution.

Samples HIMW-5D, HIMW-5I, HIMW-24 and DUP-032712 were reanalyzed at a dilution due to concentration levels of analytes above the calibration range. All surrogate recoveries are diluted out in samples HIMW-5D, HIMW-5I and DUP-032712. Both sets of data are submitted.

Benzo(k)fluoranthene had a %D greater than 15% in the continuing calibration of 4/13/13 and 4/17/12.

REVISED KV 11-May-12

KEY-URS150 S12

H2M LABS, INC.

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: April 23, 2012
Date Revised: May 11, 2012

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* *
****
Joann M. Slavin
Senior Vice President

KEY-URS150 S12A REVISED KV 11-May-12

H2M LABS, INC.

SEMI-VOLATILES SAMPLE PREPARATION

EXTRACTION DATE: 4/12/12 SDG#: GEI845 KEY-URS150 DELIV. CODE: BO-25 RT-70 TEST CODE: 8270W

MATRIX: WATER ✓ SOIL_____ SLUDGE_____ OTHER (SPECIFY)_____

EXTR. METHOD: SEPF ____ CONT ✓ TUMB ____ SONC ____ SOXH ____ PFEX ____ BLEND ____ DIL ____ SOLID PHASE____

SAMPLES

	Lab Id #	Customer#	Intl Vol/Wt	pH	Residual Chlorine
1	1204478-001B	KEY-GEI	1L	<2	
2	-002B				
3	-003B				
4	-004B				
5	-005B				
6	-006B				
7	-007B				
8	-008B	↓	↓	↓	
9	1208991-007B	KEY-URS	✓	✓	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments/ Sample Description: HEMW-125

pH Calibration:

READING OF 4.0 BUFFER (3.9-4.1)_____

READING OF 10.0 BUFFER (9.9-10.1)_____

BLANKS	Vol/Wt	GPC COL	Spike Sol#	Lot	Vol uL	Verif. By
B1- 34336	1L					
B2-						
B3-						
SPIKED SAMPLES						
1204478-004B MS	1L		MS952	AY	500	
↓ -004B MSD	↓		↓	↓	↓	
MS						
MSD						
SPIKED BLANKS						
MSB- 34336			MS952	AY	500	
MSBD-						
LFB1- 34336			QC625	AS	500	
LFB2-			Benzidines	G	25	
1)	SURR SOL.		SS952	AA	500	
2)	SURR SOL.					

a) Run MSB for AC, AS 8270/PP8080 with MS sol.
b) Run LFB for all codes with QC sol except AC
c) Spike samples for AC and any 8270/PP8080 w/ MS sol., all others with QC sol

		Date	Time	Final Vol	Analyst	Comments
EXTR. OR DIL.	Start	4/13/12			JB	
	End	↓		1 200mL	↓	
CONC. 1				↓		
CONC. 2						KD-S-EVAP TURB
		Date	Intl Vol.	Final Vol.	Analyst	KD N-EVAP TURB
C	GPC					
L	H2SO4					Comments
E	SULFUR					
A	FLORISIL					
N	OTHER					

REAGENTS

	Lot #		Lot #
CH2Cl2	52020	FLORISIL	
HEXANE		Na2SO4	06016505
ACETONE		NaCl	
HYDROMATRIX/DIATOMACEOUS EARTH			

Supervisor Signature: James Bieber Date: 4/13/12

P 1

KEY-URS150 B227

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:	1/6/2012
Time:	1240
Weather:	Sunny
Outdoor Temperature:	~45°F
Inside Trailer Temperature:	~70°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	2,221.9	
Feed Air Pressure *	70	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	105	(psi)
Oxygen Purity	97.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	100	(psi)
(readings below are made from control panel)		
Delivery Air	115	(psi)
Element Outlet Temperature	178	(^{o}F)
Running Hours	2,713	(hours)
Loading Hours	1,725	(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	35	32	OW-1-5S	67.3	35	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	32	OW-1-6S	67.0	25	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	30	32	OW-1-7S	66.9	33	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	27	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	20	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	30	15	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	28	30	OW-1-11S	54.1	25	14	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	25	29	OW-1-12S	53.6	28	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: 1/6/2012

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	24	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	25	12
OW-1-14S	52.7	28	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	22	14	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	27	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	29	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	20	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	26	14
OW-1-19S	49.7	30	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	34	14
OW-1-20S	49.3	21	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.

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	28	28	OW-1-29S	48.5	27	13	OW-1-33D	83.2	30	30
OW-1-26D	78.1	50	30	OW-1-30S	48.8	28	14	OW-1-34D	84.5	32	31
OW-1-27D	77.9	70	32	OW-1-31S	49.3	25	14	OW-1-35D	85.0	50	29
OW-1-28D	78.0	30	28	OW-1-32S	49.3	30	14	OW-1-36D	85.0	30	30
OW-1-29D	78.4	35	27	OW-1-33S	49.7	24	13	OW-1-37D	84.0	32	30
OW-1-30D	79.0	80	31	OW-1-34S	50.1	30	13	OW-1-38D	82.0	45	38
OW-1-31D	80.5	35	21	OW-1-35S	50.3	30	14	OW-1-39D	78.0	30	27
OW-1-32D	81.6	30	29	OW-1-36S	50.3	25	14	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.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 1/6/2012

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	28	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	33	18
OW-1-39S	50.7	35	12	OW-1-45	65.7	35	20	OW-1-51R	60.6	35	17
OW-1-40S	51.1	30	14	OW-1-46	64.3	40	18	OW-1-52	59.3	30	15
OW-1-41S	51.5	32	14	OW-1-47	63.4	40	19	OW-1-53	60.0	40	17
OW-1-42S	51.3	30	13	OW-1-48	62.5	32	18	OW-1-54	60.0	45	17
				OW-1-49	61.5	30	17				
				OW-1-50	61.0	35	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							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	23.75	4.27	0.0	MP-1-5	23.41	14.81	0.0				
MP-1-1S	23.93	13.59	0.6	MP-1-6	16.89	7.51	0.0				
MP-1-2D	17.91	15.59	0.2	MP-1-7	19.15	0.63	0.0				
MP-1-2S	18.33	11.18	0.0	MP-1-8	20.22	14.23	0.0				
MP-1-3D	16.07	5.70	0.0								
MP-1-3S	16.12	31.36	0.0								
MP-1-4D	18.83	12.24	0.1								
MP-1-4S	18..65	3.30	0.0								

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: 1/6/2012

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 X No

AS-80 O_2 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:

Found float in auto drain stuck stuck in open and blowing air from the compressor into separator unit. Replaced float and cleaned up oil in separator unit. Repaired leak on fitting in manifold. Cleaned fresh air vents on compressor and dryer units. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

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:	1/24/2012
Time:	1340
Weather:	Sunny
Outdoor Temperature:	~49°F
Inside Trailer Temperature:	~70°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	2,357.3	
Feed Air Pressure *	110	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	110	(psi)
Oxygen Purity	98.5	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	115	(psi)
(readings below are made from control panel)		
Delivery Air	112	(psi)
Element Outlet Temperature	147	(^{o}F)
Running Hours	2,865	(hours)
Loading Hours	1,823	(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	25	32	OW-1-5S	67.3	25	17	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	29	OW-1-6S	67.0	50	19	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	35	32	OW-1-7S	66.9	35	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	30	30	OW-1-9S	66.0	45	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	25	30	OW-1-10S	54.6	40	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	20	30	OW-1-11S	54.1	25	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: 1/24/2012

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	24	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	25	12
OW-1-14S	52.7	28	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	22	14	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	20	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	20	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	30	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
OW-1-20S	49.3	21	14	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	28	OW-1-29S	48.5	25	13	OW-1-33D	83.2	35	30
OW-1-26D	78.1	60	30	OW-1-30S	48.8	30	13	OW-1-34D	84.5	30	31
OW-1-27D	77.9	50	33	OW-1-31S	49.3	30	13	OW-1-35D	85.0	50	30
OW-1-28D	78.0	30	28	OW-1-32S	49.3	35	13	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	40	38	OW-1-34S	50.1	25	13	OW-1-38D	82.0	25	34
OW-1-31D	80.5	40	27	OW-1-35S	50.3	25	13	OW-1-39D	78.0	30	27
OW-1-32D	81.6	35	29	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.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 1/24/2012

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	30	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	40	19
OW-1-39S	50.7	45	13	OW-1-45	65.7	35	20	OW-1-51R	60.6	45	18
OW-1-40S	51.1	30	14	OW-1-46	64.3	40	18	OW-1-52	59.3	40	17
OW-1-41S	51.5	40	14	OW-1-47	63.4	40	18	OW-1-53	60.0	30	18
OW-1-42S	51.3	45	14	OW-1-48	62.5	48	18	OW-1-54	60.0	30	17
				OW-1-49	61.5	25	17				
				OW-1-50	61.0	35	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							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	23.85	3.34	0.4	MP-1-5	23.51	21.79	0.0				
MP-1-1S	24.02	12.59	0.0	MP-1-6	15.95	11.79	0.0				
MP-1-2D	18.03	22.29	0.0	MP-1-7	19.20	0.37	0.0				
MP-1-2S	18.41	26.32	0.0	MP-1-8	20.25	12.94	0.0				
MP-1-3D	16.18	5.74	0.2								
MP-1-3S	16.21	18.93	0.9								
MP-1-4D	18.86	19.17	0.0								
MP-1-4S	18.67	1.30	0.0								

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: 1/24/2012

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_2 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:

Repaired cracked 3/8" hose for auto drain. Added small amount of oil to compressor and tighted belts. Cleaned up oil in separator unit. Adjusted exhaust on compressor unit. Adjusted heat in shed as temperature was a little clod inside the shed. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

High pressure was noted at MP-1-3S.

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:	2/13/2012
Time:	1314
Weather:	Sunny
Outdoor Temperature:	~45°F
Inside Trailer Temperature:	~70°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	2,517.8	
Feed Air Pressure *	115	(psi)
Cycle Pressure *	70	(psi)
Oxygen Receiver Pressure *	110	(psi)
Oxygen Purity	98.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	115	(psi)
(readings below are made from control panel)		
Delivery Air	113	(psi)
Element Outlet Temperature	162	(^{o}F)
Running Hours	3,044	(hours)
Loading Hours	1,937	(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	28	31	OW-1-5S	67.3	30	15	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	28	30	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	25	32	OW-1-7S	66.9	25	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	25	31	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	20	30	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	25	30	OW-1-10S	54.6	30	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	25	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	25	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: 2/13/2012

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	25	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	28	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	20	14	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	35	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	28	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	30	14
OW-1-19S	49.7	40	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	35	14
OW-1-20S	49.3	25	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.

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	50	28	OW-1-29S	48.5	30	13	OW-1-33D	83.2	35	29
OW-1-26D	78.1	45	30	OW-1-30S	48.8	25	13	OW-1-34D	84.5	40	31
OW-1-27D	77.9	40	31	OW-1-31S	49.3	25	13	OW-1-35D	85.0	50	28
OW-1-28D	78.0	35	28	OW-1-32S	49.3	35	14	OW-1-36D	85.0	30	30
OW-1-29D	78.4	30	27	OW-1-33S	49.7	28	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	40	38	OW-1-34S	50.1	30	13	OW-1-38D	82.0	35	33
OW-1-31D	80.5	45	19	OW-1-35S	50.3	30	13	OW-1-39D	78.0	20	28
OW-1-32D	81.6	15	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.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 2/13/2012

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	35	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	25	18
OW-1-39S	50.7	45	13	OW-1-45	65.7	35	20	OW-1-51R	60.6	30	17
OW-1-40S	51.1	30	13	OW-1-46	64.3	35	17	OW-1-52	59.3	50	17
OW-1-41S	51.5	30	14	OW-1-47	63.4	30	18	OW-1-53	60.0	45	17
OW-1-42S	51.3	35	13	OW-1-48	62.5	35	18	OW-1-54	60.0	60	16
				OW-1-49	61.5	30	17				
				OW-1-50	61.0	45	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							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	24.08	3.30	0.6	MP-1-5	23.74	17.31	0.0				
MP-1-1S	24.25	18.10	0.1	MP-1-6	16.20	23.31	0.0				
MP-1-2D	18.17	9.27	0.0	MP-1-7	19.47	0.63	0.0				
MP-1-2S	18.70	10.06	0.0	MP-1-8	20.54	14.66	0.0				
MP-1-3D	16.40	6.01	0.2								
MP-1-3S	16.44	19.79	0.4								
MP-1-4D	19.16	11.67	0.0								
MP-1-4S	18.98	3.71	0.0								

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: 2/13/2012

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_2 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:

Cleaned up oil in separator unit. Installed new o-ring and greased water trap bowl to prevent water leak. Cleaned all fresh air filters. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

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:	2/24/2012
Time:	1304
Weather:	Rain
Outdoor Temperature:	~38°F
Inside Trailer Temperature:	~70°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	2,592.8	
Feed Air Pressure *	90	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	105	(psi)
Oxygen Purity	98.2	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	100	(psi)
(readings below are made from control panel)		
Delivery Air	113	(psi)
Element Outlet Temperature	167	(^{o}F)
Running Hours	3,128	(hours)
Loading Hours	1,991	(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	35	32	OW-1-5S	67.3	25	17	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	31	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	25	30	OW-1-9S	66.0	28	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	25	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	30	30	OW-1-11S	54.1	25	15	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	25	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: 2/24/2012

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	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	20	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	35	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	28	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	28	14
OW-1-19S	49.7	35	12	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	14
OW-1-20S	49.3	40	14	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	40	15

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	30	13	OW-1-33D	83.2	30	29
OW-1-26D	78.1	50	28	OW-1-30S	48.8	30	13	OW-1-34D	84.5	40	31
OW-1-27D	77.9	40	29	OW-1-31S	49.3	35	13	OW-1-35D	85.0	50	30
OW-1-28D	78.0	30	27	OW-1-32S	49.3	40	13	OW-1-36D	85.0	28	30
OW-1-29D	78.4	30	27	OW-1-33S	49.7	30	13	OW-1-37D	84.0	32	29
OW-1-30D	79.0	40	32	OW-1-34S	50.1	30	13	OW-1-38D	82.0	45	38
OW-1-31D	80.5	40	30	OW-1-35S	50.3	30	13	OW-1-39D	78.0	25	27
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.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 2/24/2012

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	20	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	19
OW-1-39S	50.7	40	13	OW-1-45	65.7	20	19	OW-1-51R	60.6	30	18
OW-1-40S	51.1	30	14	OW-1-46	64.3	25	18	OW-1-52	59.3	40	17
OW-1-41S	51.5	20	13	OW-1-47	63.4	30	18	OW-1-53	60.0	25	17
OW-1-42S	51.3	30	13	OW-1-48	62.5	30	18	OW-1-54	60.0	25	17
				OW-1-49	61.5	25	17				
				OW-1-50	61.0	30	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							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	24.20	6.89	0.8	MP-1-5	23.85	14.39	0.0				
MP-1-1S	24.36	11.97	0.0	MP-1-6	16.28	6.97	0.0				
MP-1-2D	18.36	6.54	0.0	MP-1-7	19.57	0.48	0.8				
MP-1-2S	18.77	11.75	1.4	MP-1-8	20.64	16.49	0.0				
MP-1-3D	16.50	6.43	0.8								
MP-1-3S	16.53	23.31	0.0								
MP-1-4D	19.06	18.04	1.5								
MP-1-4S	19.04	4.84	0.0								

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: 2/24/2012

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 X No ____

AS-80 O_2 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:

Cleaned up oil in separator unit. Found auto drain stuck open. Took apart auto drain to lube o-rings and clean out silt build up. Repaired small leak in piping on oxygen tank #1. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

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:	3/9/2012
Time:	1318
Weather:	Sunny
Outdoor Temperature:	~50°F
Inside Trailer Temperature:	~68°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	2,700.0	
Feed Air Pressure *	105	(psi)
Cycle Pressure *	70	(psi)
Oxygen Receiver Pressure *	105	(psi)
Oxygen Purity	98.2	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	100	(psi)
(readings below are made from control panel)		
Delivery Air	111	(psi)
Element Outlet Temperature	158	(^{o}F)
Running Hours	3,248	(hours)
Loading Hours	2,067	(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	28	17	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	35	31	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	30	32	OW-1-7S	66.9	30	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	40	30	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	50	30	OW-1-10S	54.6	20	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	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	25	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: 3/9/2012

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	40	15	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	28	12
OW-1-14S	52.7	30	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	28	12
OW-1-15S	52.2	30	14	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	30	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	28	13
OW-1-18S	50.2	25	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	25	13
OW-1-19S	49.7	40	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	14
OW-1-20S	49.3	38	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.

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	30	13	OW-1-33D	83.2	30	29
OW-1-26D	78.1	60	30	OW-1-30S	48.8	30	13	OW-1-34D	84.5	30	32
OW-1-27D	77.9	40	30	OW-1-31S	49.3	35	13	OW-1-35D	85.0	50	31
OW-1-28D	78.0	30	27	OW-1-32S	49.3	30	13	OW-1-36D	85.0	25	30
OW-1-29D	78.4	35	26	OW-1-33S	49.7	28	12	OW-1-37D	84.0	28	29
OW-1-30D	79.0	30	38	OW-1-34S	50.1	30	13	OW-1-38D	82.0	70	37
OW-1-31D	80.5	66	29	OW-1-35S	50.3	30	13	OW-1-39D	78.0	20	27
OW-1-32D	81.6	35	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.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 3/9/2012

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	35	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	35	19
OW-1-39S	50.7	50	13	OW-1-45	65.7	35	20	OW-1-51R	60.6	35	17
OW-1-40S	51.1	30	13	OW-1-46	64.3	30	18	OW-1-52	59.3	50	17
OW-1-41S	51.5	25	13	OW-1-47	63.4	45	18	OW-1-53	60.0	30	17
OW-1-42S	51.3	35	13	OW-1-48	62.5	40	18	OW-1-54	60.0	30	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							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	24.36	3.12	0.6	MP-1-5	24.03	24.38	0.0				
MP-1-1S	24.53	14.47	0.0	MP-1-6	16.47	6.54	0.0				
MP-1-2D	18.53	4.75	0.2	MP-1-7	19.76	0.45	0.7				
MP-1-2S	18.96	30.72	1.1	MP-1-8	20.82	6.27	0.0				
MP-1-3D	16.69	11.68	0.4								
MP-1-3S	16.72	13.66	0.0								
MP-1-4D	19.45	14.58	0.0								
MP-1-4S	19.24	5.02	0.0								

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: 3/9/2012

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_2 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:

Cleaned up oil in separator unit. Found small leak in cooling oil site glass of air compressor. Drained oil in compressor and took aprt site glass to clean and reseal fittings. Filled back up and unit was holding. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

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:	3/23/2012
Time:	1313
Weather:	Sunny
Outdoor Temperature:	~75° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	2,803.3	
Feed Air Pressure *	115	(psi)
Cycle Pressure *	70	(psi)
Oxygen Receiver Pressure *	110	(psi)
Oxygen Purity	98.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	115	(psi)
(readings below are made from control panel)		
Delivery Air	112	(psi)
Element Outlet Temperature	165	(oF)
Running Hours	3,364	(hours)
Loading Hours	2,139	(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	25	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	25	32	OW-1-6S	67.0	20	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	25	32	OW-1-7S	66.9	25	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	20	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	20	15	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	25	30	OW-1-11S	54.1	20	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: 3/23/2012

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	25	15	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	20	12
OW-1-14S	52.7	20	16	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	25	12
OW-1-15S	52.2	20	15	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	24	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	22	13
OW-1-18S	50.2	25	14	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	20	13
OW-1-19S	49.7	25	15	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	25	14
OW-1-20S	49.3	35	15	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	20	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	20	27	OW-1-29S	48.5	20	13	OW-1-33D	83.2	30	29
OW-1-26D	78.1	50	31	OW-1-30S	48.8	20	13	OW-1-34D	84.5	40	32
OW-1-27D	77.9	60	33	OW-1-31S	49.3	30	13	OW-1-35D	85.0	60	29
OW-1-28D	78.0	30	28	OW-1-32S	49.3	35	13	OW-1-36D	85.0	30	30
OW-1-29D	78.4	35	27	OW-1-33S	49.7	20	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	40	35	OW-1-34S	50.1	20	13	OW-1-38D	82.0	50	30
OW-1-31D	80.5	60	21	OW-1-35S	50.3	15	13	OW-1-39D	78.0	30	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: 1/25/1900

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	20	12	OW-1-41D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38S	50.6	20	13	OW-1-42D	71.0	OFF	OFF	OW-1-44	66.6	20	19
OW-1-39S	50.7	35	13	OW-1-45	65.7	25	20	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	35	17
OW-1-41S	51.5	20	13	OW-1-47	63.4	25	18	OW-1-53	60.0	30	17
OW-1-42S	51.3	30	14	OW-1-48	62.5	20	18	OW-1-54	60.0	30	17
				OW-1-49	61.5	35	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 (%O2)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Oxygen Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	24.57	21.7	1.47	0.1	MP-1-5	24.21	21.4	7.39	0.2	MP-1-1D	3.83	6.29
MP-1-1S	24.73	40.7	9.59	0	MP-1-6	16.70	21.5	3.83	0	MP-1-2D	6.81	10.19
MP-1-2D	18.74	33.9	3.64	0	MP-1-7	19.97	20.9	1.02	0	MP-1-3D	6.89	7.99
MP-1-2S	19.13	40.1	6.79	0.2	MP-1-8	21.03	34.3	4.10	0	MP-1-4D	13.91	18.31
MP-1-3D	16.91	20.9	5.41	0								
MP-1-3S	16.95	40.9	8.88	0.1								
MP-1-4D	19.66	30.3	3.24	0.6								
MP-1-4S	19.47	39.7	5.03	0.2								

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: 3/23/1900

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 changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 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:

Cleaned up oil in separator unit. Added a small amount of oil to the air compressor. Repaired float in auto drain bowl and repaired drain hose in air seperator unit. Sprayed down all bolts in monitoring wells with lubrication to presserve the longevity of the bolts. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

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

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	1/5/2012
Time:	1149
Weather:	Sunny
Outdoor Temperature:	~47° F
Inside Trailer Temperature:	~70° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	8,882	
Feed Air Pressure *	110	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	72	(psi)
Oxygen Purity	94.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	75	(psi)
(readings below are made from control panel)		
Delivery Air	81	(psi)
Element Outlet Temperature	169	(^oF)
Running Hours	8,989	(hours)
Loading Hours	8,912	(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	psi
OW-2-2	90.2'	32	32	OW-2-9S	75'	18	21	OW-2-10D	97.2'	30	27
OW-2-3	94.3'	28	27	OW-2-10S	75'	25	29	OW-2-11D	100.8'	42	31
OW-2-4	94.7'	30	32	OW-2-11S	76.5'	30	22	OW-2-12	94'	19	20
OW-2-5	95.3'	25	31	OW-2-13S	75'	30	17	OW-2-13D	97'	29	37
OW-2-6	95.7'	27	31	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	30	23
OW-2-7	96'	31	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	30	29	OW-2-18S	74.5'	38	19	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	40	30	OW-2-20S	79'	30	20	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: 1/5/2012

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
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'	25	28
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	35	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	30	27
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	31	27
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	25	32

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.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	29	17	OW-2-45	61.1'	35	21	MP-2-1	26.98	10.31	0
OW-2-38	62.1'	30	19	OW-2-46	61'	30	18	MP-2-2	28.07	18.21	0
OW-2-39	60'	34	21	OW-2-47	60.5'	25	19	MP-2-3S	28.19	21.12	0
OW-2-40	61.7'	25	17					MP-2-3D	28.40	22.68	0
OW-2-41	61.7'	17	19					MP-2-4	16.94	46.51	0.2
OW-2-42	61.6'	30	16					MP-2-5	15.08	38.11	0
OW-2-43	61.4'	35	20								
OW-2-44R	60.6'	24	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: 1/5/2012

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 X No

AS-80 O_2 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:

Found that the booster pump continued running after the cycle was completed. Checked out pump and founf a check vale on the booster pump not holdin Took apart and cleaned check valve and restarted system. Soaked up oil from seperator unit in shed. 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:	1/23/2012
Time:	1249
Weather:	Cloudy
Outdoor Temperature:	~40° F
Inside Trailer Temperature:	~70° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	9,251	
Feed Air Pressure *	80	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	95	(psi)
Oxygen Purity	97.5	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	90	(psi)
(readings below are made from control panel)		
Delivery Air	80	(psi)
Element Outlet Temperature	167	(^oF)
Running Hours	9,363	(hours)
Loading Hours	9,283	(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	psi
OW-2-2	90.2'	24	38	OW-2-9S	75'	18	20	OW-2-10D	97.2'	28	27
OW-2-3	94.3'	35	28	OW-2-10S	75'	20	29	OW-2-11D	100.8'	15	33
OW-2-4	94.7'	20	37	OW-2-11S	76.5'	25	22	OW-2-12	94'	20	19
OW-2-5	95.3'	30	31	OW-2-13S	75'	25	18	OW-2-13D	97'	50	35
OW-2-6	95.7'	28	31	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	40	31
OW-2-7	96'	25	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	20	30	OW-2-18S	74.5'	15	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	25	30	OW-2-20S	79'	18	22	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: 1/23/2012

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
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'	25	28
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	20	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	35	28
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	40	38
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	22	36

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.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	20	20	OW-2-45	61.1'	30	21	MP-2-1	27.11	11.33	0.1
OW-2-38	62.1'	20	19	OW-2-46	61'	20	20	MP-2-2	28.21	22.88	0
OW-2-39	60'	25	20	OW-2-47	60.5'	22	20	MP-2-3S	28.30	6.57	0.4
OW-2-40	61.7'	10	20					MP-2-3D	28.51	26.97	0
OW-2-41	61.7'	35	20					MP-2-4	17.07	21.40	0
OW-2-42	61.6'	40	20					MP-2-5	15.23	28.91	0.4
OW-2-43	61.4'	40	20								
OW-2-44R	60.6'	20	21								

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: 1/23/2012

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 X No

AS-80 O_2 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:

Shut down damper on exhaust of air compressor for the winter. Soaked up oil from seperator unit in shed. Adjusted door handle to fix locking issues. 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:	2/10/2012
Time:	1251
Weather:	Sunny
Outdoor Temperature:	~51° F
Inside Trailer Temperature:	~70° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	9,577	
Feed Air Pressure *	118	(psi)
Cycle Pressure *	65	(psi)
Oxygen Receiver Pressure *	100	(psi)
Oxygen Purity	97.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	120	(psi)
(readings below are made from control panel)		
Delivery Air	114	(psi)
Element Outlet Temperature	126	(^oF)
Running Hours	9,698	(hours)
Loading Hours	9,612	(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	psi
OW-2-2	90.2'	40	28	OW-2-9S	75'	50	21	OW-2-10D	97.2'	30	28
OW-2-3	94.3'	50	18	OW-2-10S	75'	20	30	OW-2-11D	100.8'	30	33
OW-2-4	94.7'	40	34	OW-2-11S	76.5'	25	22	OW-2-12	94'	35	20
OW-2-5	95.3'	25	31	OW-2-13S	75'	25	18	OW-2-13D	97'	60	29
OW-2-6	95.7'	25	30	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	30	27
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'	25	30	OW-2-18S	74.5'	20	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	28	30	OW-2-20S	79'	20	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: 2/10/2012

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
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'	25	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	19
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	45	38
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	40	37

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.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	25	20	OW-2-45	61.1'	30	21	MP-2-1	27.25	10.01	0
OW-2-38	62.1'	30	20	OW-2-46	61'	20	20	MP-2-2	28.37	19.93	0
OW-2-39	60'	35	18	OW-2-47	60.5'	25	19	MP-2-3S	28.47	7.44	0
OW-2-40	61.7'	40	21					MP-2-3D	28.70	24.49	0.9
OW-2-41	61.7'	20	20					MP-2-4	17.23	23.32	0.1
OW-2-42	61.6'	30	20					MP-2-5	15.46	48.23	0
OW-2-43	61.4'	25	20								
OW-2-44R	60.6'	20	20								

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: 2/10/2012

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_2 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:

Soaked up oil from seperator unit in shed. Repaired leak in oxygen hose on holding tank. Added small amount of oil to air compressor. 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:	2/23/2012
Time:	1314
Weather:	Sunny
Outdoor Temperature:	~60° F
Inside Trailer Temperature:	~70° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	9,829	
Feed Air Pressure *	95	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	105	(psi)
Oxygen Purity	95.5	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	95	(psi)
(readings below are made from control panel)		
Delivery Air	85	(psi)
Element Outlet Temperature	171	(^{o}F)
Running Hours	9,954	(hours)
Loading Hours	9,865	(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	psi
OW-2-2	90.2'	35	30	OW-2-9S	75'	50	21	OW-2-10D	97.2'	20	28
OW-2-3	94.3'	50	29	OW-2-10S	75'	30	31	OW-2-11D	100.8'	50	33
OW-2-4	94.7'	40	34	OW-2-11S	76.5'	20	22	OW-2-12	94'	25	21
OW-2-5	95.3'	25	31	OW-2-13S	75'	25	18	OW-2-13D	97'	45	31
OW-2-6	95.7'	20	30	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	35	29
OW-2-7	96'	25	30	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	20	30	OW-2-18S	74.5'	25	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	28	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: 2/23/2012

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
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'	20	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	35	34
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	40	38
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	35	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.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	20	20	OW-2-45	61.1'	30	22	MP-2-1	27.34	8.69	0.5
OW-2-38	62.1'	30	20	OW-2-46	61'	35	20	MP-2-2	28.46	10.90	0
OW-2-39	60'	50	19	OW-2-47	60.5'	35	20	MP-2-3S	28.58	7.97	0.9
OW-2-40	61.7'	30	21					MP-2-3D	28.77	17.28	0
OW-2-41	61.7'	30	20					MP-2-4	17.31	18.49	0
OW-2-42	61.6'	35	20					MP-2-5	15.52	27.84	0.2
OW-2-43	61.4'	30	20								
OW-2-44R	60.6'	20	20								

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: 2/23/2012

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_2 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:

Soaked up oil from seperator unit in shed. Cleaned all fresh air filters. Adjusted temp inside shed. Drained small amount of water from first air holding tank. Added small amount of oil to compressor. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Replaced four (4) bolts on manholes.

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:	3/8/2012
Time:	1311
Weather:	Sunny
Outdoor Temperature:	~68° F
Inside Trailer Temperature:	~70° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	10,113	
Feed Air Pressure *	80	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	125	(psi)
Oxygen Purity	95.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	80	(psi)
(readings below are made from control panel)		
Delivery Air	82	(psi)
Element Outlet Temperature	169	(^oF)
Running Hours	10,242	(hours)
Loading Hours	10,150	(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	psi
OW-2-2	90.2'	40	33	OW-2-9S	75'	25	22	OW-2-10D	97.2'	40	28
OW-2-3	94.3'	35	29	OW-2-10S	75'	28	31	OW-2-11D	100.8'	40	33
OW-2-4	94.7'	35	34	OW-2-11S	76.5'	30	22	OW-2-12	94'	25	20
OW-2-5	95.3'	35	30	OW-2-13S	75'	30	20	OW-2-13D	97'	45	31
OW-2-6	95.7'	30	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'	25	20	OW-2-16D	94.1'	OFF	OFF
OW-2-9D	96.7'	30	30	OW-2-20S	79'	28	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: 3/8/2012

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
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	30
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	25	29
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'	40	33
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	45	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.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	35	21	OW-2-45	61.1'	20	22	MP-2-1	27.55	8.69	0
OW-2-38	62.1'	40	20	OW-2-46	61'	25	20	MP-2-2	28.67	22.75	0
OW-2-39	60'	45	21	OW-2-47	60.5'	20	20	MP-2-3S	28.76	7.34	0
OW-2-40	61.7'	30	20					MP-2-3D	28.94	24.41	0.6
OW-2-41	61.7'	30	20					MP-2-4	17.53	12.67	0.2
OW-2-42	61.6'	30	21					MP-2-5	15.72	11.27	0
OW-2-43	61.4'	45	20								
OW-2-44R	60.6'	45	20								

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: 3/8/2012

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 X No

AS-80 O_2 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:

Soaked up oil from seperator unit in shed. Cleaned all fresh air filters. Found inline check valves on high pressure oxygen tank leaking out seal of booster pump. Took apart check valves and cleaned rubber seals. Found two (2) leaks on piping in flow meter manifolds. Replaced 3/8-inch o-rings to repair leaks. 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:	3/22/2012
Time:	1309
Weather:	Sunny
Outdoor Temperature:	~70° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	10,351	
Feed Air Pressure *	79	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	100	(psi)
Oxygen Purity	97.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	80	(psi)
(readings below are made from control panel)		
Delivery Air	101	(psi)
Element Outlet Temperature	172	(^{o}F)
Running Hours	10,487	(hours)
Loading Hours	10,390	(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	30	OW-2-9S	75'	20	21	OW-2-10D	97.2'	28	28
OW-2-3	94.3'	30	28	OW-2-10S	75'	25	30	OW-2-11D	100.8'	32	33
OW-2-4	94.7'	30	32	OW-2-11S	76.5'	20	22	OW-2-12	94'	50	20
OW-2-5	95.3'	20	31	OW-2-13S	75'	25	20	OW-2-13D	97'	40	38
OW-2-6	95.7'	40	30	OW-2-15S	75'	OFF	OFF	OW-2-14	96.4'	30	29
OW-2-7	96'	30	29	OW-2-16S	75.5'	OFF	OFF	OW-2-15D	94.6'	OFF	OFF
OW-2-8	96.3'	35	30	OW-2-18S	74.5'	25	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: 3/22/2012

O_2 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	30
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	20	27
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	30
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	30	38
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	35	39

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.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log				
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Oxygen Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	35	20	OW-2-45	61.1'	30	22	MP-2-1	27.75	24.4	8.69	0
OW-2-38	62.1'	30	21	OW-2-46	61'	35	20	MP-2-2	28.87	20.3	6.03	0
OW-2-39	60'	30	19	OW-2-47	60.5'	30	20	MP-2-3S	28.98	20.9	1.65	0.2
OW-2-40	61.7'	40	21	ID	DO (mg/L) Middle	DO (mg/L) Top		MP-2-3D	29.18	39.8	1.71	0
OW-2-41	61.7'	45	20	MP-2-2	10.77	20.92		MP-2-4	17.74	27.9	12.67	0
OW-2-42	61.6'	55	18	MP-2-3S	4.01	15.35		MP-2-5	15.95	30.8	6.04	0
OW-2-43	61.4'	40	20	MP-2-3D	7.19	24.97						
OW-2-44R	60.6'	30	20	MP-2-5	7.92	24.54						

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: 3/22/2012

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 X No

AS-80 O_2 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:

Soaked up oil from seperator unit in shed. Cleaned all fresh air filters. Shut down heat and turned on air conditioner and set at 65 ° F. 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: