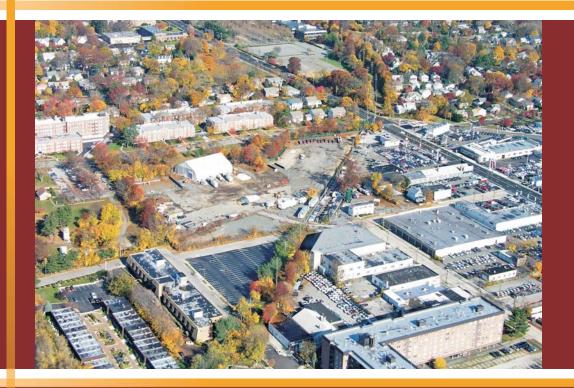
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2012 Annual Groundwater Sampling, NAPL Monitoring/ Recovery, and Groundwater Treatment Performance Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site Villages of Hempstead & Garden City Nassau County, New York



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



May 2013

# 2012 ANNUAL GROUNDWATER SAMPLING, NAPL MONITORING, AND GROUNDWATER TREATMENT PERFORMANCE REPORT

#### HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE VILLAGES OF HEMPSTEAD AND GARDEN CITY NASSAU COUNTY, NEW YORK 11550

**Prepared** for:

National Grid 175 East Old Country Rd. Hicksville, NY 11801

Prepared by:

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May 2013

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#### HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

#### **ACRONYMS AND ABBREVIATIONS**

amsl	above mean sea level
BTEX	benzene, toluene, ethylbenzene, xylenes
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
DTW	depth to water
DUSR	data usability summary report
F&N	Fenley & Nicol Environmental, Inc.
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
µg/L	micrograms per liter
mg/L	milligrams per liter
MP	monitoring points
NA	not accessible
NAPL	non-aqueous phase liquid
ND	not detected
NM	not measured
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
PAHs	polycyclic aromatic hydrocarbons
PID	photo ionization detector
ppm	parts per million
PZ	piezometer
QC	quality control
TOR	top of riser
URS	URS Corporation
USEPA	United States Environmental Protection Agency

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#### **EXECUTIVE SUMMARY**

This annual report provides a summary of field activities, analytical results, and data interpretations associated with groundwater sampling, gauging of non-aqueous phase liquid (NAPL), and groundwater treatment system at the Hempstead Intersection Street Former Manufactured Gas Plant (MGP) site in 2012, including the initial presentation of data from Third Quarter and Fourth Quarter.

Groundwater monitoring and sampling events were conducted on March 20 – March 28, June 13 – June 25, October 8 – October 16 and December 17 – 28, 2012. This included measuring the depth to groundwater and NAPL thickness in approximately 56 wells. Groundwater samples were collected and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). In the First and Third Quarter 2012, 20 wells were sampled and in the Second and Fourth Quarter 2012, 25 wells were sampled. The Third Quarter sampling normally occurs between July and September but was performed this year at the beginning of October. The activities and data from this event are representing the data for the Third Quarter 2012.

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

- The general direction of groundwater flow in 2012 in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 feet per feet (ft/ft) for intermediate and deep water bearing zones and approximately 0.005-0.006 ft/ft for the shallow water bearing zone.
- The 100 ug/L dissolved-phase plume extended approximately 1,320 ft south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was observed in 7 wells during the First Quarter, 13 wells during the Second Quarter, 13 wells during the Third Quarter, and 13 existing wells during the Fourth Quarter of 2012. The wells with DNAPL are located within a parking lot immediately south of the site.

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- Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011. NAPL recovery was not performed during 2012.
- Based on a comparison between the Third Quarter and Fourth Quarter 2012 data and the previous 2012 data, the concentrations of total BTEX and total PAHs remained stable in most of the site monitoring wells.

The first of two oxygen delivery systems (System No. 2) was brought on line in October 2010 and promoted aerobic conditions in the aquifer near the system. The second of two oxygen delivery systems (System No. 1) was brought on line in April 2011 and has also promoted aerobic conditions in the aquifer near the system.

Bimonthly headspace and water quality parameters were collected in 2012 from the monitoring points for Systems No. 1 and No. 2 by Fenley & Nicol Environmental, Inc. (F&N). During the First Quarter, F&N monitored Systems No. 1 and No. 2 during six events. During the Second Quarter, F&N monitored System No. 1 during six events and System No. 2 during seven events. During the Third Quarter, F&N monitored System No. 1 during seven events and No. 2 during six events. During the Fourth Quarter, F&N monitored System No. 1 and No. 2 during seven events and No. 2 during six events.

The reported dissolved oxygen concentrations that were collected during the Second, Third, or Fourth Quarter 2012 were much lower than the First Quarter 2012 or in 2011 because the dissolved oxygen meter that was used was faulty. URS does not consider the data collected with this meter to be accurate based on the review of supplemental groundwater sampling data including monitoring well dissolved oxygen readings, well headspace readings, system operation and maintenance information, and the stable levels of contaminants in the groundwater sampling data. Upon reviewing all the supplemental data, URS believes that the oxygen delivery systems have maintained dissolved oxygen concentrations suitable for aerobic biodegradation during the year.

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#### **1.0 INTRODUCTION**

This annual report summarizes potentiometric head measurements, NAPL thickness measurements, and groundwater quality sampling performed during the First, Second, Third, and Fourth Quarters of 2012 at the Hempstead Intersection Street Former MGP Site in Hempstead, NY (Figure 1).

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007. While separate reports are typically provided for the first three quarters of the year, the fourth quarter data get reported as part of the Annual Report. Separate URS Corporation (URS) reports have been issued for the First and Second Quarter activities performed in 2012 (URS 2012b, 2012c). Results of the Third and Fourth Quarter activities have not been presented in separate quarterly reports; instead, they are both included in this annual report. The Third Quarter sampling normally occurs between July and September but was performed this year at the beginning of October. The activities and data from this event are representing the data for the Third Quarter 2012.

URS performed the following activities in 2012:

- Measured the depth to groundwater and NAPL thickness in all accessible on site and off site monitoring wells (on March 20, June 13, October 8, and December 17, 2012), see Tables 1 and 2 and Figure 2.
- Collected groundwater samples from 20 or 25 monitoring wells for laboratory analysis. There were 20 well sampled on March 21 to March 28; 25 wells sampled on June 14 to June 25; 20 wells sampled on October 9 to October 16; and 25 wells sampled on December 18 to December 28, 2012), see Table 3.

Fenley & Nicol Environmental, Inc. (F&N) also performed water level measurements, well headspace monitoring with a multi-gas meter (RKI Eagle MultiGas meter), and dissolved oxygen (DO) measurements with a DO meter (YSI 55A) to monitor the performance of the groundwater treatment systems for System No. 1 and System No. 2 during 2012. This data is presented in Table 4.

F&N Reported that the YSI 55A used to collect the DO readings was malfunctioning during the Second, Third, and Fourth Quarter 2012 and the DO data from these measurements are not accurate.

#### 2.0 FIELD ACTIVITIES

The field activities performed by URS for the First Quarter of 2012 included measuring the depth to groundwater and NAPL thickness in 59 monitoring wells and the collection of groundwater samples from 20 monitoring wells.

The field activities performed by URS for the Second Quarter of 2012 included measuring the depth to groundwater and NAPL thickness in 57 monitoring wells and the collection of groundwater samples from 25 monitoring wells.

The field activities performed by URS for the Third Quarter of 2012 included measuring the depth to groundwater and NAPL thickness in 57 monitoring wells and the collection of groundwater samples from 20 monitoring wells. The Third Quarter sampling normally occurs between July and September but was performed this year at the beginning of October. The activities during this event are presented as representing Third Quarter 2012.

The field activities performed by URS for the Fourth Quarter of 2012 included measuring of the depth to groundwater and NAPL thickness in 56 monitoring wells and the collection of groundwater samples from 25 monitoring wells.

Monitoring wells and piezometers used for these activities are listed in Table 1. Groundwater elevations and NAPL thickness values for 2012 are presented in Table 2. Results of groundwater sampling performed in 2012 are presented in Table 3.

F&N performed measurements to monitor the performance of the groundwater treatment Systems No. 1 and No. 2 approximately twice monthly during each quarter of 2012. F&N collected water level measurements with an electronic oil/water interface probe, well headspace monitoring data with an RKI Eagle multigas meter, and dissolved oxygen measurements with a YSI 55A dissolved oxygen meter. This data is presented in Table 4.

#### 2.1 Groundwater Depth and NAPL Thickness Measurements

Depths to groundwater and NAPL thickness measurements for 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 <u>NAPL Recovery</u>

NAPL recovery was suspended 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 <u>Groundwater Sampling</u>

Low-flow groundwater sampling methods were used to sample groundwater, which included purging groundwater at a rate of between 100 and 250 milliliters per minute. The water was pumped through a flow-through cell and monitored for pH, conductivity, turbidity, 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 under 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. The Data Usability Summary Reports for the Third and Fourth Quarters are presented in Appendix A.

There were 25 monitoring wells sampled during the Fourth Quarter December 17 - 28, 2012 groundwater sampling event.

There were 20 monitoring wells sampled during the Third Quarter groundwater sampling event, which was conducted October 8 - 16, 2012. The sampling normally occurs between July and September but was performed this year at the beginning of October.

Results of groundwater sampling performed in 2012 are presented in Table 3.

#### 2.4 Groundwater Treatment System Operation

National Grid has constructed two oxygen delivery systems to treat the groundwater 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 during 2012 through the measurement of water levels, headspace gas, and water quality parameters in the groundwater approximately twice per month by F&N, see Table 4. F&N performed water level measurements with an electronic oil/water interface probe, well headspace monitoring with a multi-gas meter (RKI Eagle MultiGas meter), and DO measurements with a DO meter (YSI 55A). This data is presented in Table 4. These measurements were collected on the following dates:

- First Quarter measurements were taken for System No. 1 on January 6, January 24, February 13, February 24, March 9, and March 23 for a total of six events. System No. 2 measurements were collected on January 5, January 23, February 10, February 23, March 8, and March 22 for a total of six events.
- Second Quarter measurements were taken for System No. 1 on April 6, April 19, May 7, May 18, June 1, and June 18, a total of six events. System No. 2 measurements were collected on April 5, April 17, May 4, May 17, May 31, June 15, and June 27 for a total of seven events
- Third Quarter measurements were taken for System No. 1 on July 3, July 16, July 31, August 10, September 1, September 13, and September 28, a total of seven events; and were taken for System No. 2 on July 13, July 30, August 9, August 31, September 14, and September 27, for a total of six events.
- Fourth Quarter measurements were taken for System No. 1 on October 8, October 25, November 14, November 30, and December 13, a total of five events; and were taken for System No. 2 on October 8, October 24, November 13, November 29, and December 12, for a total of five events.

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The full system data is included in Appendix B. URS believes that the reported dissolved oxygen measurements do not accurately represent DO levels in the area adjacent to the oxygen delivery systems. Please see Section 3.5 for a full discussion of results and conclusions.

#### 3.0 **RESULTS**

#### 3.1 <u>Dissolved-Phase Plume</u>

The extent of the dissolved-phase groundwater plume boundary is shown in Figures 4 and 5. Figure 4 shows the data for Third Quarter and Figure 5 shows the data for the Fourth Quarter 2012. The downgradient boundary of the plume, which is defined by total BTEX or PAH concentrations greater than 100  $\mu$ g/L, extends approximately 1,320 feet south of the site boundary. Based on comparisons with the First and Second Quarters of groundwater monitoring data, the concentrations of total BTEX or PAHs in groundwater have remained relatively stable during the Third and Fourth Quarters.

For the Third Quarter 2012 data collected in early October, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from "not detected" (deep well, HIMW-015D) to 21  $\mu$ g/L (intermediate well, HIMW-015I). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from "not detected" to 3,345  $\mu$ g/L (intermediate well, HIMW-020I), see Figure 4.

For the Fourth Quarter 2012 data collected in late December, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from "not detected" (deep well, HIMW-015D) to 18  $\mu$ g/L (intermediate well, HIMW-015I). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from "not detected" to 2,507  $\mu$ g/L (intermediate well, HIMW-005I), see Figure 5.

There were five wells that displayed notable changes during the Third and Fourth Quarters. These are HIMW-005I and D, HIMW-020I, HIMW-024, and HIMW-025 and are discussed below:

For HIMW-005I, total BTEX concentrations stayed relatively constant over the 100 µg/L threshold. Total PAH concentrations were increased by 900 µg/L to 3,319 µg/L in the Third Quarter and then decreased by a similar amount to 2,507 µg/L in the Fourth Quarter 2012. The changes in PAH concentrations primarily reflected changes in the naphthalene concentrations. The concentrations remained within historical ranges.

- For HIMW-005D, total BTEX concentrations stayed stable under the 100 μg/L threshold. Total PAH concentrations increased by about 300 μg/L from the Second to Third Quarter to 1,175 μg/L. The PAH concentrations were then stable from the Third to the Fourth Quarter. The concentrations remained within historical ranges.
- For HIMW-020I, total BTEX concentrations decreased from 279 μg/L to 130 μg/L, but stayed over the 100 μg/L threshold. Total PAH concentrations increased by about 1,000 μg/L (to 3,345 μg/L) in the Third Quarter and then decreased by about the same amount for the Fourth Quarter. The changes in PAH concentrations primarily reflected changes in the naphthalene concentrations. The concentrations remained within historical ranges.
- For HIMW-024, total BTEX and total PAH concentrations from the Second to Third Quarter decreased below the 100  $\mu$ g/L threshold, then stayed stable during the Fourth Quarter.
- For HIMW-025, total BTEX increased to 223 µg/L in the Fourth Quarter. There was no sample analyzed for BTEX in the Third Quarter. Total PAH concentrations were stable.

From First to Fourth Quarters in 2012, there was an overall decrease in contaminant concentrations for monitoring wells where there were detectable levels of total BTEX or total PAHs. The most marked decreases were found at HIMW-005I, HIMW-005D, HIMW-012I, HIMW-020I, HIMW-024, and HIMW-025, with the biggest changes occurring for PAH at HIMW-005I and HIMW-005D (decreases of 1,390  $\mu$ g/L and 1,412  $\mu$ g/L, respectively) and for BTEX at HIMW-020I (decrease of 2,702  $\mu$ g/L). There were a few wells with minor increases (< 20  $\mu$ g/L) in contaminant concentrations that occurred over 2012, and one well, HIMW-025, with an increase of 211  $\mu$ g/L for total BTEX concentrations; total PAHs were not detected or 1  $\mu$ g/L. The majority of the increase for this well was seen because of an increase in the concentration of total xylene.

#### 3.2 <u>Potentiometric Heads and NAPL Thickness</u>

Potentiometric heads and NAPL thickness measurements for 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 6, 7, and 8 for Third Quarter, and Figures 9,

10, and 11 for Fourth Quarter. The data for 2012 indicates that the direction of groundwater flow within the well field was south at an average gradient of approximately 0.002 ft/ft for intermediate and deep water bearing zones and approximately 0.005-0.006 ft/ft for the shallow water bearing zones. Potentiometric surface maps for the First Quarter and Second Quarter are provided in the previous quarterly reports (URS 2012b, 2012c).

DNAPL was observed in 13 of the existing wells during the Fourth Quarter, 13 wells in the Third Quarter, 13 wells in the Second Quarter, and 7 wells in the First Quarter 2012. Figures 12 through 15 illustrate the thickness of DNAPL that was measured for the First, Second, Third, and Fourth Quarters of 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 from 2012 are summarized in Section 3.1 and Table 3. The Fourth and Third Quarter results are illustrated on Figures 4 and 5, respectively.

A Data Usability Summary Reports (DUSR) were 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 DUSRs is included as Appendix A. The review included a review of holding times; completeness of all required deliverables; quality control (QC) results (blanks, instrument tunes, calibration standards, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers. All sample analyses were found to be compliant with the method and validation criteria and the data is useable as reported, except where noted in the DUSRs.

#### 3.4 NAPL Recovery Volumes

Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011. NAPL recovery was not performed during 2012.

#### 3.5 Groundwater Treatment System Performance

Groundwater treatment system performance data for 2012, as collected and reported by F&N, is presented in Table 4.

During the First Quarter 2012, the average reported DO in System No. 1 monitoring points was 17.32 mg/L and 10.16 mg/L in System No. 2. The highest DO reading was 48.23 mg/L and the lowest reading was 0.45 mg/L. Historically, the range of values for the oxygen monitoring points was approximately 1 - 50 mg/L. During the Second, Third, and Fourth Quarter, DO measurements for both systems were lower; the highest reading in this period was 16.52 and the lowest was 0 mg/L. The reported DO concentrations dropped sharply in the Second Quarter and stayed low the rest of 2012. URS collected DO concentration measurements on January 15 and 16, 2013 to provide an independent check on the F&N measured DO levels and found the DO levels closer to the First Quarter values. The table below presents the F&N DO measurements averaged by quarter and by system. It also presents the URS January 2013 data as system averages, for purpose of comparison.

	A	verage Disso	n Concentrati	ons (mg/L)			
		F&N		URS			
	1 <sup>st</sup>	2 <sup>nd</sup>	4 <sup>th</sup>				
	Quarter	Quarter	Quarter	Quarter	1 <sup>st</sup> Quarter 2013		
System No. 1	17.32	4.22	2.59	2.99	29.85		
System No. 2	10.16	4.34	2.62	3.07	19.91		

Comparing Average Dissolved Oxygen Readings by System

After the January 2013 DO check was performed, F&N discovered a problem with the membrane on their YSI 55A meter and indicated this was the cause of the inaccurate measurements taken during the Second, Third and Fourth Quarters.

Since the F&N data was specifically collected to assess the system performance, but was found to be inaccurate for the Second through Fourth Quarters of 2012, URS reviewed

supplemental data that indicated that DO levels were much higher in the groundwater surrounding the oxygen delivery systems during this time.

During quarterly groundwater sampling events, DO is monitored and recorded as an indicator of well stability during low flow groundwater sampling. There are four monitoring wells in the groundwater sampling program that are adjacent to oxygen delivery system monitoring points. These are:

- HIMW-020 pair (S and I) is approximately 67 feet east of the MP-1-1 pair (S and D).
- HIMW-025 is 183 feet approximately downgradient of MP-1-6
- HIMW-023 is 60 feet approximately west of MP-2-2

Below is a table presenting the DO levels of the stabilized monitoring wells in the First Quarter 2012 and the average on the Second through Fourth Quarters 2012. The groundwater sampling DO values stayed relatively stable in the First Quarter 2012 as compared to the average of the Second through Fourth Quarters. For comparison, the average DO readings taken from the nearby monitoring points during the first quarter of 2012 (prior to experiencing DO meter errors) are presented and show results comparable to the nearby monitoring wells.

Groundwater Monitoring Well near System	1 <sup>st</sup> Quarter 2012	Average 2 <sup>nd</sup> through 4 <sup>th</sup> Quarter 2012	Adjacent Oxygen Delivery System Monitoring Point	Adjacent Oxygen Delivery System Monitoring Point Average Dissolved Oxygen Reading 4Q 2011/1Q2012	
HIMW-020S	28.51	22.8	MP-1-1S	12.80	
HIMW-020I	0.92	0.5	MP-1-1D	5.38	
HIMW-025	29.89	26.2	MP-1-6	8.47	
HIMW-023	18.51	16.3	MP-2-2	17.32	

Low-Flow Groundwater Dissolved Oxygen readings (mg/L)

As the monitoring well DO measurements in the Second through Fourth Quarters are similar to the measurements taken during the First Quarter and correspond to monitoring point DO levels taken prior to the Second Quarter 2012, the First Quarter URS DO measurements are assumed to be representative of DO levels throughout 2012.

In Appendix B, the F&N Oxygen System Operation and Maintenance Measurements are presented. The systems received scheduled maintenance and were functioning properly throughout 2012. The running hours at the control panel and pressure at each delivery point were reported to be consistent throughout the year. The oxygen output of the systems was also consistent throughout the year.

Based on the groundwater sampling DO readings, the oxygen headspace readings, and the system operation and maintenance information, as well as the groundwater sampling data presented in Section 3.1, URS concludes that there was sufficient dissolved oxygen during 2012 to augment biodegradation of dissolved phase MGP compounds in groundwater.

#### System No. 1

The groundwater treatment System No. 1 started operation on April 27, 2011. F&N conduct bimonthly monitoring including measurement of water depth, DO concentration, and headspace vapors by photoionization detector (PID) monitoring. A summary of the data collected from the monitoring points in 2012 is presented on Table 4. As discussed above, the DO measurements are not accurate; however, DO measurements collected by URS in nearby monitoring wells maintained levels observed earlier, indicating maintenance of aerobic conditions needed for biological degradation of contaminants.

As mentioned in the 2011 annual report, some delivery well flows were reduced or turned off temporarily to address oxygen concentrations above the atmospheric value of 21% in delivery well headspaces. These modified delivery rates did not negatively affect the DO measurements in the monitoring points. However, on October 25 in the Fourth Quarter of 2012, in response to the erroneous low DO measurements, these wells were reactivated. No substantive changes in headspace oxygen were observed following this change with the exception of MP-1-2D during December only.

Two groundwater wells were installed downgradient of System No. 1 to help evaluate system performance. HIMW-025 is closest to the system and showed not detected to 12  $\mu$ g/L in BTEX or total PAH concentrations for the First and Second Quarter. In the Third and Fourth Quarter, total PAH concentrations have stayed in this range, but the BTEX concentration rose in the Fourth Quarter to 223  $\mu$ g/L. The further downgradient groundwater well HIMW-024 (located

about halfway between System No.1 and System No. 2) had a substantial drop in BTEX and total PAH concentrations after the First Quarter, indicating that the zone of oxygenated water has reached well HIMW-024 which is located approximately 400 feet downgradient of the oxygen delivery line. During the First Quarter, the BTEX and total PAH concentrations were 827 and 808  $\mu$ g/L, respectively, and during the Fourth Quarter they were between 34 and 13  $\mu$ g/L, respectively.

#### System No. 2

The groundwater treatment System No. 2 started operation on October 11, 2010. F&N conducts bimonthly monitoring including measurement of water depth, DO concentration, and headspace vapors by photoionization detector monitoring. A summary of the data collected by F&N from the monitoring points in 2012 is presented on Table 4. As discussed above, the DO measurements are not accurate; however, DO measurements collected by URS from nearby monitoring wells maintained levels observed earlier, indicating maintenance of aerobic conditions needed for biological degradation of contaminants.

As mentioned in the 2011 annual report, some delivery well flows were reduced or turned off temporarily to address oxygen concentrations above the atmospheric 21% in delivery well headspaces. These modified delivery rates did not negatively affect the DO measurements in the monitoring points. However, on October 25 in the Fourth Quarter of 2012, in response to the erroneous low DO measurements, these wells were reactivated. No substantive changes in headspace oxygen were observed following this change.

The two groundwater wells installed downgradient of this system to evaluate its performance (HIMW-022 and HIMW-023) were measured throughout the year. During the First Quarter, the BTEX and total PAH concentrations were between 17 and 45  $\mu$ g/L and during the Fourth Quarter at between 3 and 26  $\mu$ g/L, showing reductions in concentration of the dissolved hydrocarbons in this area.

#### 4.0 SUMMARY

Following is a summary of the 2012 groundwater sampling, NAPL monitoring data, and groundwater treatment performance presented in this report:

- The general direction of groundwater flow in 2012 in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 ft/ft for intermediate and deep water bearing zones and approximately 0.005-0.006 ft/ft for the shallow water bearing zones.
- The 100  $\mu$ g/L dissolved-phase plume extended up to approximately 1,320 feet south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was observed in 13 existing wells during the Fourth Quarter of 2012, 13 wells during the Third Quarter, 13 wells during the Second Quarter, and 7 wells during the First Quarter. The wells were located within a parking lot immediately south of the site.
- Approximately 745 gallons of NAPL was recovered between April 2007 and July 2011. NAPL recovery was not performed during 2012.
- Based on a comparison of the Third and Fourth 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 oxygen delivery systems (System No. 2), brought on line in October 2010, has promoted aerobic conditions in the aquifer near the system.
- The second of two oxygen delivery systems (System No. 1), brought on line in April 2011, has promoted 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 F&N. During the Fourth Quarter, F&N monitored Systems No. 1 and No. 2 during five events. During the Third Quarter, F&N monitored System No. 1 during seven events and System No. 2 during six events. During the Second Quarter, F&N monitored System No. 1 during six

events and System No. 2 during seven events. During the First Quarter, F&N monitored Systems No. 1 and No. 2 during six events.

• The reported DO concentrations that were collected by F&N during the Second, Third, or Fourth Quarter 2012 are considered inaccurate because of the use of a faulty DO meter. Based on supplemental groundwater sampling DO data collected by URS, well headspace readings, system operation and maintenance information, as well as the stable levels of contaminants in the groundwater sampling data, URS believes that the oxygen delivery systems have maintained DO concentrations suitable for aerobic biodegradation.

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

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

#### 2012 ANNUAL GROUNDWATER SAMPLING, NAPL MONITORING, AND GROUNDWATER TREATMENT PERFORMANCE REPORT

#### HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

## **TABLES**

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#### Table 1

#### Summary of 2012 Field Activities <sup>(1), (2)</sup> Water Level Measurements, NAPL Thickness Measurements, and Water Quality Sampling Hempstead Intersection Street Former MGP Site

Well ID	-	urth Quar cember 20			hird Quart tober 201	2) <sup>(3)</sup>	Second Quarter (June 2012)			First Quarter (March 2012)		
	Water	NAPL	Water	Water	NAPL	Water	Water	NAPL	Water	Water	NAPL	Water
	Level	Thickness	Quality	Level	Thickness	Quality	Level	Thickness	Quality	Level	Thickness	Quality
HIMW-002S	X	Х		X	Х		X	Х		X	Х	
HIMW-002I	X	Х		X	Х		X	Х		X	Х	
HIMW-002D	Х	Х		X	Х		Х	Х		X	Х	
HIMW-003S	Х	Х	Х	X	Х		Х	Х	Х	Х	Х	
HIMW-003I	Х	Х	Х	X	Х		Х	Х	Х	Х	Х	
HIMW-003D	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х	
HIMW-004S	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-004I	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-004D	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-005S	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HIMW-005I	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HIMW-005D	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HIMW-008S	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HIMW-008I	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HIMW-008D	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HIMW-009S	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-009I	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-009D	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-010S	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-010I	Х	Х		Х	Х		Х	Х		Х	Х	
HIMW-010D												
HIMW-011S	Х	Х		Х	Х					Х	Х	
HIMW-011I	X	X		X	X		Х	Х		X	X	
HIMW-011D	X	X		X	X		X	X		X	X	
HIMW-012S	X	X	Х	X	X	Х	X	X	Х	X	X	Х
HIMW-0120	X	X	X	X	X	X	X	X	X	X	X	X
HIMW-012D	X	X	X	X	X	X	X	X	X	X	X	X
HIMW-013S	X	X	X	X	X	~	X	X	X	X	X	Λ
HIMW-013I	X	X	X	X	X	Х	X	X	X	X	X	Х
HIMW-013D	X	X	X	X	X	X	X	X	X	X	X	X
HIMW-014I	X	X	X	X	X	X	X	X	X	X	X	X X
HIMW-014D	X	X	X	X	X	Χ	X	X	X	X	X	Λ
HIMW-015I	X	X	X	X	X	Х	X	X	X	X	X	Х
HIMW-015D	X	X	X	X	X	X	X	X	X	X	X	X X
HIMW-016S	X	X	~	X	X	~	X	X	~	X	X	~
HIMW-016I	X	X		X	X		X	X		X	X	
HIMW-017S	X	X		X	X		X	X		X	X	
HIMW-20S	X	X	Х	X	X	Х	X	X	Х	X	X	Х
HIMW-203	X	X	X	X	X	X	X	X	X	X	X	X
HIMW-201	X	X	^	X	X	~	X	X	^	X	X	Λ
HIMW-21 HIMW-22	X	X	Х	X	X	Х	X	X	Х	X	X	Х
HIMW-22 HIMW-23	X	X	X	X	X	X	X	X	X	X	X	× X
HIMW-23	X	X	X	X	X	X	X	X	X	X	X	X
	X		X		X	X	X	X	X	X	X	
HIMW-25 PZ-02	^	Х	^	X	^	^	^	^	^	^	^	Х
PZ-02 PZ-03					+							
	v	- v		v			v			V	- v	
IPR-14	X	X		X	X		X	X		X	X	
IPR-15	X	X		X	X		X	X		X	X	
IPR-16	X	X		X	X		X	X		X	X	
IPR-17	X	X		X	X		X	X		X	X	
IPR-18	Х	Х		Х	Х		Х	Х		Х	Х	

#### Table 1

#### Summary of 2012 Field Activities <sup>(1), (2)</sup> Water Level Measurements, NAPL Thickness Measurements, and Water Quality Sampling Hempstead Intersection Street Former MGP Site

Well ID		urth Quar cember 20			nird Quart tober 201	-		cond Qua June 201	2)	First Quarter (March 2012)		
	Water Level	NAPL Thickness	Water Quality	Water Level	NAPL Thickness	Water Quality	Water Level	NAPL Thickness	Water Quality	Water Level	NAPL Thickness	Water Quality
IPR-19S**												
IPR-19D	Х	Х		Х	Х		Х	Х		Х	Х	
IPR-20	Х	Х		Х	Х		Х	Х		Х	Х	
IPR-21	Х	Х		Х	Х		Х	Х		Х		
IPR-22	Х	Х		Х	Х		Х	Х		Х	Х	
IPR-23	Х	Х		Х	Х		Х	Х		Х	Х	
IPR-24	Х	Х		Х	Х		Х	Х		Х		
IPR-29	Х	Х		Х	Х		Х	Х		Х	Х	
IPR-30	Х	Х		Х	Х		Х	Х		Х		
OSMW-01							Х	Х				
OSMW-02				Х	Х							
OSMW-03												

#### Notes:

1 Field marked with "X" indicates that the activity was performed.

2 Blank field indicates that the activity was not performed.

3 During the Third and Fourth Quarters, the stick up PVC risers at HIMW-002 S, I, and D were cut to grade. Water levels were collected, but are not usable because the locations were not resurveyed.

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

\*\* IPR-19S is covered with cold patch and is inaccessible.

Table 2
Groundwater and NAPL Measurements
Fourth 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 <sup>(1)</sup>
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-002S <sup>(2)</sup>	12/17/2012	N/A	ND	24.46	ND	39.8	0	0.00	N/A
HIMW-002I <sup>(2)</sup>	12/17/2012	N/A	ND	24.41	ND	88.7	0	0.00	N/A
HIMW-002D <sup>(2)</sup>	12/17/2012	N/A	ND	24.49	ND	110.8	0	0.00	N/A
HIMW-003S	12/17/2012	65.00	ND	18.26	ND	34.6	0	0.00	46.74
HIMW-003I	12/17/2012	64.94	ND	18.17	ND	85.4	0	0.00	46.77
HIMW-003D	12/17/2012	65.26	ND	19.03	ND	142.9	0	0.00	46.23
HIMW-004S	12/17/2012	72.74	ND	26.87	ND	41.6	0	0.00	45.87
HIMW-004I	12/17/2012	72.78	ND	26.74	ND	90.5	0	0.00	46.04
HIMW-004D	12/17/2012	72.65	ND	27.11	ND	177.0	0	0.00	45.54
HIMW-005S	12/17/2012	67.19	ND	20.99	ND	38.9	0	0.00	46.20
HIMW-005I	12/17/2012	67.22	ND	20.92	ND	91.8	0	0.00	46.30
HIMW-005D	12/17/2012	67.22	ND	21.57	ND	136.6	0	0.00	45.65
HIMW-008S	12/17/2012	65.04	ND	19.38	ND	36.9	0	0.00	45.66
HIMW-008I	12/17/2012	65.14	ND	19.50	ND	75.0	0	0.00	45.64
HIMW-008D	12/17/2012	64.93	ND	19.29	ND	114.7	0	0.00	45.64
HIMW-009S	12/17/2012	70.03	ND	23.81	ND	39.6	0	0.00	46.22
HIMW-009I	12/17/2012	69.93	ND	23.76	ND	80.4	0	0.00	46.17
HIMW-009D	12/17/2012	69.96	ND	23.91	ND	122.8	0	0.00	46.05
HIMW-010S	12/17/2012	71.60	ND	24.40	ND	39.2	0	0.00	47.20
HIMW-010I	12/17/2012	71.47	ND	24.13	ND	89.8	0	0.00	47.34
HIMW-010D <sup>(3)</sup>	12/17/2012	71.44	NM	NM	NM	136.0	0	0.00	NM
HIMW-011S	12/17/2012	71.62	ND	24.76	ND	40.2	0	0.00	46.86
HIMW-011I	12/17/2012	71.43	ND	24.57	ND	93.3	0	0.00	46.86
HIMW-011D	12/17/2012	71.39	ND	24.61	ND	123.6	0	0.00	46.78
HIMW-012S	12/17/2012	61.58	ND	17.16	ND	33.2	0	0.00	44.42
HIMW-012I	12/17/2012	61.59	ND	17.06	ND	74.5	0	0.00	44.53
HIMW-012D	12/17/2012	61.82	ND	18.71	ND	128.6	0	0.00	43.11
HIMW-013S	12/17/2012	72.83	ND	30.49	ND	48.8	0	0.00	42.34
HIMW-013I	12/17/2012	72.60	ND	30.28	ND	81.8	0	0.00	42.32
HIMW-013D	12/17/2012	72.53	ND	30.26	ND	122.3	0	0.00	42.27
HIMW-014I	12/17/2012	71.71	ND	29.48	ND	96.2	0	0.00	42.23
HIMW-014D	12/17/2012	71.59	ND	31.27	ND	152.0	0	0.00	40.32
HIMW-015I	12/17/2012	64.18	ND	24.99	ND	92.7	0	0.00	39.19
HIMW-015D	12/17/2012	63.96	ND	26.12	ND	152.6	0	0.00	37.84
HIMW-016S	12/17/2012	67.45	ND	21.16	28.91	34.4	0	5.50	46.29
HIMW-016I	12/17/2012	67.50	ND	21.14	77.16	82.7	0	5.50	46.36
HIMW-017S	12/17/2012	65.96	ND	20.36	34.60	36.7	0	2.10	45.60
HIMW-020S	12/17/2012	70.43	ND	25.29	ND	36.8	0	0.00	45.14
HIMW-020I	12/17/2012	70.30	ND	25.04	ND	74.8	0	0.00	45.26

# Table 2Groundwater and NAPL MeasurementsFourth Quarter 2012Hempstead 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 <sup>(1)</sup>
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-021	12/17/2012	NM	ND	19.89	41.2	45.3	0	4.10	NM
HIMW-022	12/17/2012	NM	ND	30.33	ND	64.4	0	0.00	NM
HIMW-023	12/17/2012	NM	ND	30.49	ND	75.6	0	0.00	NM
HIMW-024	12/17/2012	NM	ND	14.88	ND	55.0	0	0.00	NM
HIMW-025	12/17/2012	NM	ND	17.26	ND	52.3	0	0.00	NM
PZ-02	12/17/2012	72.96	NM	NM	NM	35.3	NM	NM	NM
PZ-03	12/17/2012	64.58	NM	NM	NM	29.5	NM	NM	NM
IPR-14	12/17/2012	66.93	ND	20.49	ND	44.4	0	0.20	46.44
IPR-15	12/17/2012	67.93	ND	21.46	ND	44.4	0	0.00	46.47
IPR-16	12/17/2012	69.49	ND	23.01	47.45	49.1	0	1.60	46.48
IPR-17	12/17/2012	70.60	ND	24.01	53.86	54.1	0	0.25	46.59
IPR-18	12/17/2012	66.87	ND	20.56	ND	50.0	0	0.00	46.31
IPR-19S <sup>(3)</sup>	12/17/2012	67.68	NM	NM	NM	45.1	NM	NM	NM
IPR-19D	12/17/2012	67.96	ND	21.62	89.91	89.9	0	0.01	46.34
IPR-20	12/17/2012	66.70	ND	20.51	43.75	45.4	0	1.65	46.19
IPR-21	12/17/2012	67.67	ND	21.38	39.46	45.0	0	5.50	46.29
IPR-22	12/17/2012	66.33	ND	20.27	39.70	45.4	0	5.70	46.06
IPR-23	12/17/2012	66.67	ND	20.51	ND	45.4	0	0.00	46.16
IPR-24	12/17/2012	65.88	ND	19.87	42.1	44.4	0	2.30	46.01
IPR-29	12/17/2012	NM	ND	19.89	45.2	49.7	0	4.50	NM
IPR-30	12/17/2012	NM	ND	20.91	NM	NM	0	0.00	NM
OSMW-01	12/17/2012	71.12	NM	NM	NM	42.2	0	NM	NM
OSMW-02	12/17/2012	71.59	NM	NM	NM	45.2	0	NM	NM
OSMW-03	12/17/2012	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

(2) PVC stick up risers on HIMW-002 S, I, and D were cut to grade in Third Quarter 2012. TOR elevations have not been resurveyed since riser levels were altered. Water levels were collected, but are not correctable.

(3) HIMW-010D was destroyed in Third Quarter 2011. HIMW-019S is covered with cold patch and inaccessible.

sheen Sheen = assumed thickness of 0.01 ft

NM not measured

LNAPL light non-aqueous phase liquid

- DNAPL dense non-aqueous phase liquid
- TOR top of riser
- amsl above mean sea level
- ND NAPL not detected

#### Table 3

### Dissolved-Phase Concentrations of Total BTEX and Total PAH Compounds Data Collected in 2012

#### Hempstead Intersection Street Former MGP Site

Well ID	Fourth Qu December 17 - De	arter 2012 ecember 28, 2012		arter 2012 tober 16, 2012		uarter 2012 une 25, 2012		arter 2012 Iarch 28, 2012
Weinib	BTEX	PAH	BTEX	PAH	BTEX	PAH	BTEX	PAH
	[ug/L]	[ug/L]	[ug/L]	[ug/L]	[ug/L]	[ug/L]	[ug/L]	[ug/L]
HIMW-003D	ND	ND			ND	ND		
HIMW-003I	ND	ND			ND	ND		
HIMW-003S	ND	ND			ND	ND		
HIMW-005D	80	1,286	51	1,175	41	813	91 (DUP=92)	2,698 (DUP=2,315)
HIMW-005I	127	2,507	113	3,139	150	2,471	157	3,897
HIMW-005S	ND	ND	ND (DUP ND)	ND (DUP ND)	ND	ND	ND	ND
HIMW-008D	ND	ND	ND	ND	ND	ND	ND	ND
HIMW-008I	ND	ND	ND	ND	ND	1	ND	ND
HIMW-008S	13	1	11	26	6	25	3	15
HIMW-012D	ND	ND	ND	ND	ND	ND	ND	ND
HIMW-012I	53	113	50	138	68	135	78	223
HIMW-012S	ND	5	ND	ND	ND	ND	ND	ND
HIMW-013D	3	18	2	15	7	29	5	28
HIMW-013I	7	8	1	5	4 (DUP=5)	13 (DUP=12)	27	63
HIMW-013S	ND	ND			ND	ND		
HIMW-014D	ND	ND			ND	ND		
HIMW-014I	42	53	41	45	67	58	33	78
HIMW-015D	ND	ND	ND	ND	ND	ND	ND	ND
HIMW-015I	12	18	11 (DUP=10)	21 (DUP=22)	17	31	21 (DUP=22)	60 (DUP=66)
HIMW-020I	130	1,266	279	3,345	474	2,446	710	3,968
HIMW-020S	ND (DUP=ND)	ND (DUP=ND)	ND	ND	ND (DUP=ND)	ND (DUP=ND)	3	ND
HIMW-022	26	16	1	3	83	91	45	17
HIMW-023	3	4	15	19	3	7	30	43
HIMW-024	34	13	30	14	125	134	827	808
HIMW-025	223 (DUP=213)	ND (DUP=ND)		1	2	1	12	ND

Notes:

A blank field is "Not Sampled".

ND Not Detected.

ug/L micrograms per liter

# Table 4Groundwater Treatment Performance MonitoringFirst Quarter 2012Hempstead Intersection Street Former MGP Site

## System No. 1

		1/6/2012			1/24/2012			2/13/2012			2/24/2012			3/9/2012				3/23/2	012		
ID	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)	DO (mg/L)	PID (ppm)	DTW (ft)	O2 Headspace (%O2)	DO (mg/L)	PID (ppm)	DO (mg/L) Middle	DO (mg/L) Top
MP-1-1S	23.93	13.59	0.60	24.02	12.59	0.00	24.25	18.10	0.10	24.36	11.97	0.00	24.53	14.47	0.00	24.73	40.70	9.59	0.00	NM	NM
MP-1-1D	23.75	4.27	0.00	23.85	3.34	0.40	24.08	3.30	0.60	24.20	6.89	0.80	24.36	3.12	0.60	24.57	21.70	1.47	0.10	3.83	6.29
MP-1-2S	18.33	11.18	0.00	18.41	26.32	0.00	18.70	10.06	0.00	18.77	11.75	1.40	18.96	30.72	1.10	19.13	40.10	6.79	0.20	NM	NM
MP-1-2D	17.91	15.59	0.20	18.03	22.29	0.00	18.17	9.27	0.00	18.36	6.54	0.00	18.53	4.75	0.20	18.74	33.90	3.64	0.00	6.81	10.19
MP-1-3S	16.12	31.36	0.00	16.21	18.93	0.90	16.44	19.79	0.40	16.53	23.31	0.00	16.72	13.66	0.00	16.95	40.90	8.88	0.10	NM	NM
MP-1-3D	16.07	5.70	0.00	16.18	5.74	0.20	16.40	6.01	0.20	16.50	6.43	0.80	16.69	11.68	0.40	16.91	20.90	5.41	0.00	6.89	7.99
MP-1-4S	18.65	3.30	0.00	18.67	1.30	0.00	18.98	3.71	0.00	19.04	4.84	0.00	19.24	5.02	0.00	19.47	39.70	5.03	0.20	NM	NM
MP-1-4D	18.83	12.24	0.10	18.86	19.17	0.00	19.16	11.67	0.00	19.06	18.04	1.50	19.45	14.58	0.00	19.66	30.30	3.24	0.60	13.91	18.31
MP-1-5	23.41	14.81	0.00	23.51	21.79	0.00	23.74	17.31	0.00	23.85	14.39	0.00	24.03	24.38	0.00	24.21	21.40	7.39	0.20	NM	NM
MP-1-6	16.89	7.51	0.00	15.95	11.79	0.00	16.20	23.31	0.00	16.28	6.97	0.00	16.47	6.54	0.00	16.70	21.50	3.83	0.00	NM	NM
MP-1-7	19.15	0.63	0.00	19.20	0.37	0.00	19.47	0.63	0.00	19.57	0.48	0.80	19.76	0.45	0.70	19.97	20.90	1.02	0.00	NM	NM
MP-1-8	20.22	14.23	0.00	20.25	12.94	0.00	20.54	14.66	0.00	20.64	16.49	0.00	20.82	6.27	0.00	21.03	34.30	4.10	0.00	NM	NM

## System No. 2

		1/5/2012			1/23/2012			2/10/2012			2/23/2012			3/8/2012			3/22/	2012	
ID	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)	DO (mg/L)	PID (ppm)	DTW (ft)	O2 Headspace (%O2)	DO (mg/L)	PID (ppm)
MP-2-1	26.98	10.31	0.00	27.11	11.33	0.10	27.25	10.01	0.00	27.34	8.69	0.50	27.55	8.69	0.00	27.75	24.40	8.69	0.00
MP-2-2	28.07	18.21	0.00	28.21	22.88	0.00	28.37	19.93	0.00	28.46	10.90	0.00	28.67	22.75	0.00	28.87	20.30	6.03	0.00
MP-2-3S	28.19	21.12	0.00	28.30	6.57	0.40	28.47	7.44	0.00	28.58	7.97	0.90	28.76	7.34	0.00	28.98	20.90	1.65	0.20
MP-2-3D	28.40	22.68	0.00	28.51	26.97	0.00	28.70	24.49	0.90	28.77	17.28	0.00	28.94	24.41	0.60	29.18	39.80	1.71	0.00
MP-2-4	16.94	46.51	0.20	17.07	21.40	0.00	17.23	23.32	0.10	17.31	18.49	0.00	17.53	12.67	0.20	17.74	27.90	12.67	0.00
MP-2-5	15.08	38.11	0.00	15.23	28.91	0.40	15.46	48.23	0.00	15.52	27.84	0.20	15.72	11.27	0.00	15.95	30.80	6.04	0.00

#### **Abbreviations**

DTW: Depth to water (feet)

DO: Dissolved Oxygen concentration (milligrams per liter)

PID: Photoionization Detector measurement of well headspace (parts per million)

NA: Not Accessible

NM: Not Measured

#### Note

(1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%

Table 4 Groundwater Treatment Performance Monitoring Second Quarter 2012 Hempstead Intersection Street Former MGP Site

## System No. 1

	April 6, 2012							April 19	9, 2012					May 7,	2012					May 18	, 2012					June 1	, 2012					June	18, 2012			
ID	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top		O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top
MP-1-1S	24.95	40.00	18.00	2.97	NM	NM	24.25	39.20	13.00	3.09	NM	NM	25.98	40.00	5.10	2.69	NM	NM	25.30	40.00	3.40	1.96	NM	NM	25.04	39.90	NM	1.87	NM	NM	24.68	20.90	0.00	1.99	NM	NM
MP-1-1D	24.80	22.90	37.50	2.24	7.21	11.85	25.07	21.90	7.20	1.84	2.67	8.61	25.13	20.90	17.20	1.52	2.12	3.48	25.14	20.90	35.10	2.14	2.65	4.36	24.86	20.90	NM	1.86	2.01	3.00	24.51	20.90	0.00	2.34	1.69	2.22
MP-1-2S	19.40	40.00	7.50	4.52	NM	NM	19.24	23.40	4.10	4.74	NM	NM	19.25	29.70	0.00	2.27	NM	NM	19.71	28.80	0.00	3.65	NM	NM	19.45	40.00	NM	3.35	NM	NM	19.68	32.90	0.00	3.31	NM	NM
MP-1-2D	18.97	25.40	11.00	2.88	7.97	12.12	19.65	40.00	30.00	2.91	3.14	6.93	19.67	40.00	0.00	2.08	2.82	6.48	19.32	40.00	0.00	1.89	2.25	5.97	19.04	39.60	NM	1.84	2.05	2.39	18.67	24.80	0.00	1.44	2.01	3.25
MP-1-3S	17.14	40.00	227.90	4.56	NM	NM	17.44	40.00	69.90	4.73	NM	NM	17.46	40.00	0.00	4.04	NM	NM	17.48	40.00	0.00	3.88	NM	NM	17.25	40.00	NM	3.71	NM	NM	16.85	38.90	0.00	3.20	NM	NM
MP-1-3D	17.15	20.90	35.00	3.09	3.84	11.02	17.40	20.60	36.00	3.22	3.67	12.49	17.44	19.60	0.00	2.64	3.19	7.69	17.46	20.90	0.00	2.31	2.81	5.31	17.20	19.30	NM	2.51	2.89	3.59	16.83	19.70	0.00	2.35	2.54	3.18
MP-1-4S	19.68	38.20	2.70	3.64	NM	NM	19.98	40.00	0.00	3.99	NM	NM	19.95	40.00	6.70	2.87	NM	NM	19.98	40.00	184.70	2.68	NM	NM	19.76	40.00	NM	2.71	NM	NM	19.36	24.70	0.80	3.18	NM	NM
MP-1-4D	19.88	29.20	3.00	2.63	11.04	16.52	20.17	31.40	1.10	2.11	3.09	11.02	20.13	35.90	36.10	1.48	2.59	9.12	20.16	35.80	4.40	1.73	2.01	5.89	19.95	23.20	NM	2.06	1.99	3.09	19.54	28.10	5.50	1.90	2.12	3.15
MP-1-5	24.46	21.70	10.30	1.67	NM	NM	24.73	1.30	4.50	1.25	NM	NM	24.76	20.90	21.70	1.97	NM	NM	24.80	20.90	114.10	2.40	NM	NM	24.52	20.90	NM	1.82	NM	NM	24.15	20.90	0.00	2.29	NM	NM
MP-1-6	16.93	25.70	1.40	2.81	NM	NM	17.21	20.90	3.00	2.56	NM	NM	17.21	22.90	3.70	1.67	NM	NM	17.24	20.90	0.00	2.07	NM	NM	16.99	20.90	NM	2.08	NM	NM	16.60	20.90	0.00	2.26	NM	NM
MP-1-7	20.20	20.90	2.40	1.47	NM	NM	20.52	20.90	0.00	1.60	NM	NM	20.43	20.80	0.00	1.45	NM	NM	20.51	20.90	0.00	1.40	NM	NM	20.26	20.90	NM	1.82	NM	NM	19.87	20.90	0.20	1.73	NM	NM
MP-1-8	21.25	22.40	2.20	2.79	NM	NM	21.54	21.20	2.10	3.04	NM	NM	21.47	20.90	4.20	2.27	NM	NM	21.54	20.90	0.00	2.30	NM	NM	21.32	18.00	NM	2.61	NM	NM	20.92	19.70	0.00	2.02	NM	NM

### System No. 2

		April 5, 2012							April 1	7, 2012					May 4, 2	2012					May 17,	2012					May 31,	2012					June 1	5, 2012					June 27,	2012		
ID	DTW (ft)		PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)		DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>		DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)		DO (mg/L) Middle	DO (mg/L) Top
MP-2	27.97	21.20	0.00	3.64	NM	NM	28.21	20.90	1.00	1.24	NM	NM	28.24	24.60	5.30	1.41	NM	NM	28.30	24.30	702.50	2.05	NM	NM	27.97	24.90	312.20	1.93	NM	NM	27.66	24.90	0.00	1.61	NM	NM	27.45	24.50	11.80	2.03	NM	NM
MP-2	2-2 29.07	20.90	13.30	4.22	6.57	8.02	29.32	20.90	0.00	3.47	3.79	10.25	29.32	22.80	0.00	3.11	3.63	10.05	29.36	21.50	0.00	2.41	3.39	3.83	29.05	20.90	0.20	2.68	3.10	3.39	28.75	18.20	0.30	2.63	2.86	3.29	28.53	18.20	0.00	2.73	3.20	5.02
MP-2-	-3S 29.19	21.70	2.50	1.81	1.42	15.24	29.45	21.40	0.40	2.40	3.29	10.44	29.42	21.50	0.00	2.89	3.29	7.77	29.45	20.90	1.10	2.32	1.57	2.51	29.17	21.10	0.00	3.41	2.18	2.53	28.84	20.90	0.50	2.40	2.51	2.81	28.63	20.50	0.00	2.21	2.08	3.30
MP-2-	3D 29.38	27.70	5.80	1.85	5.03	20.77	29.65	29.70	0.50	2.22	3.75	12.37	29.62	23.30	1.20	1.71	3.18	10.28	29.66	34.80	0.90	1.81	2.71	3.08	29.38	35.20	0.70	1.86	2.94	4.59	29.05	21.20	0.00	1.94	2.44	3.14	28.86	24.20	12.30	2.51	3.11	4.17
MP-2	-4 17.92	24.90	70.10	3.16	NM	NM	18.18	28.50	0.70	2.47	NM	NM	18.15	23.70	0.00	2.08	NM	NM	18.18	24.20	0.00	2.31	NM	NM	17.91	22.70	0.20	2.19	NM	NM	17.57	20.90	0.10	1.74	NM	NM	17.37	32.10	2.10	2.44	NM	NM
MP-2	2-5 16.15	23.40	7.10	3.96	5.37	18.87	16.39	26.00	0.20	3.54	4.24	12.65	16.33	20.90	0.00	3.18	3.72	9.19	16.40	23.40	163.30	2.76	3.25	6.48	16.12	22.00	86.10	2.55	2.42	3.27	15.76	22.60	0.10	2.01	2.26	2.89	15.56	38.20	15.00	3.26	3.51	3.87

 Abbreviations

 DTW:
 Depth to water (feet)

 O2:
 Oxygen measurement of well headspace (percent oxygen)

 PID:
 Photoionization Detector measurement of well headspace (parts per million)

 DO:
 Dissolved Oxygen concentration (percent or milligrams per liter)

 NA:
 Not Accessible

 NM:
 Not Measured

 Note
 O

 (1)
 DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%

 (2)
 DO measurements are inaccurate due to malfunctioning DO meter

Table 4 Groundwater Treatment Performance Monitoring Third Quarter 2012 Hempstead Intersection Street Former MGP Site

## System No. 1

			July 3,	2012					July 16	, 2012					July 31	, 2012					August 1	0, 2012					Septemb	er 1, 2012					Septembe	r 13, 2012					Septembe	er 28, 2012		
ID	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top
MP-1-1S	24.56	32.80	0.00	2.29	NM	NM	24.79	40.00	0.00	2.46	NM	NM	25.08	31.90	0.30	2.33	NM	NM	25.30	33.40	0.40	2.35	NM	NM	25.63	22.20	0.00	2.42	NM	NM	25.83	30.20	0.00	2.64	NM	NM	25.92	29.70	0.00	2.55	NM	NM
MP-1-1D	24.42	20.90	0.00	2.50	2.06	2.69	24.62	20.90	0.00	2.27	1.84	2.63	24.93	20.40	0.00	2.23	2.12	2.19	25.11	18.70	0.00	2.15	1.58	1.84	25.46	20.90	0.00	2.41	1.80	1.68	25.66	20.10	0.00	2.43	1.82	2.68	24.77	19.40	0.00	2.49	1.91	2.07
MP-1-2S	18.98	33.80	0.40	3.38	NM	NM	19.18	32.40	0.00	2.71	NM	NM	19.51	29.20	0.00	3.40	NM	NM	19.73	24.30	0.00	3.40	NM	NM	20.02	22.90	0.00	2.71	NM	NM	20.22	31.90	0.50	2.78	NM	NM	20.32	36.70	0.70	3.05	NM	NM
MP-1-2D	18.60	19.20	0.00	1.71	2.35	3.43	18.80	19.90	0.60	1.57	2.26	2.56	19.12	18.60	0.00	1.74	2.17	3.21	19.32	17.60	0.20	1.75	2.44	3.25	19.64	20.90	0.00	1.94	2.45	3.01	19.86	20.70	0.00	1.69	2.45	3.76	19.94	20.70	0.00	1.77	2.25	3.17
MP-1-3S	16.75	26.70	0.20	3.31	NM	NM	16.98	21.20	0.00	3.54	NM	NM	17.30	24.50	0.00	3.27	NM	NM	17.47	23.40	0.20	3.49	NM	NM	17.83	25.90	0.00	3.11	NM	NM	18.00	23.70	0.00	2.54	NM	NM	18.12	22.70	0.90	3.34	NM	NM
MP-1-3D	16.73	20.90	0.00	2.63	2.88	3.18	16.98	21.10	0.00	2.43	2.68	2.75	17.26	20.90	0.00	2.55	2.37	2.91	17.45	20.90	0.00	2.34	2.62	3.16	17.80	21.90	0.00	2.21	2.02	1.91	17.98	22.20	0.00	3.13	2.56	3.37	18.10	19.10	0.00	2.94	2.76	3.52
MP-1-4S	19.29	24.80	2.10	2.97	NM	NM	19.53	21.70	0.00	2.87	NM	NM	19.83	20.90	0.20	2.94	NM	NM	20.02	20.90	0.00	2.70	NM	NM	20.37	21.60	0.10	2.31	NM	NM	20.45	23.90	0.00	2.63	NM	NM	20.67	26.70	0.00	2.69	NM	NM
MP-1-4D	19.48	25.20	0.30	1.86	2.73	3.58	19.65	21.90	0.90	2.45	2.59	3.67	20.02	20.90	0.20	2.09	2.28	2.54	20.22	21.50	0.40	2.10	2.63	3.03	20.57	21.70	0.00	1.72	2.61	3.15	20.78	22.40	0.40	1.93	2.84	3.83	20.85	18.90	0.40	1.83	2.22	3.25
MP-1-5	24.07	20.90	0.00	2.52	NM	NM	24.26	20.90	11.40	2.94	NM	NM	24.57	20.90	0.00	2.48	NM	NM	24.76	20.10	0.00	2.46	NM	NM	25.12	20.90	0.00	2.33	NM	NM	25.32	17.30	0.00	2.87	NM	NM	25.43	16.70	0.00	2.26	NM	NM
MP-1-6	16.54	20.90	0.00	2.41	NM	NM	16.76	20.90	0.00	2.51	NM	NM	17.07	20.90	0.00	2.34	NM	NM	17.25	20.90	0.00	2.43	NM	NM	17.60	17.20	0.20	2.26	NM	NM	17.77	21.70	0.30	2.63	NM	NM	17.90	20.90	0.30	2.45	NM	NM
MP-1-7	19.81	20.90	0.00	2.06	NM	NM	20.05	20.60	0.00	1.77	NM	NM	20.36	20.90	0.00	1.92	NM	NM	20.53	20.90	0.00	2.77	NM	NM	20.89	20.70	0.00	2.11	NM	NM	21.08	20.90	0.00	2.51	NM	NM	21.15	18.90	0.00	1.96	NM	NM
MP-1-8	20.83	20.10	0.00	2.87	NM	NM	21.10	20.90	0.30	2.75	NM	NM	21.40	30.80	0.00	2.51	NM	NM	21.60	20.50	0.00	2.93	NM	NM	21.94	20.90	0.00	2.38	NM	NM	22.13	20.90	0.00	2.50	NM	NM	22.17	19.60	0.00	2.52	NM	NM

## System No. 2

			July 13	, 2012					July 30	July 13, 2012 July 30, 2012											August 3 <sup>-</sup>	1, 2012					September	14, 2012				:	Septembe	r 27, 2012		
ID	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)		DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO (mg/L) Bottom	DO (mg/L) Middle	DO (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)		DO (mg/L) Middle	DO (mg/L) Top
MP-2-1	27.72	24.20	0.00	1.72	NM	NM	28.07	24.90	0.00	1.53	NM	NM	28.25	23.70	0.00	1.80	NM	NM	28.60	24.80	0.00	2.31	NM	NM	28.83	23.70	0.00	2.50	NM	NM	28.95	23.40	0.00	2.51	NM	NM
MP-2-2	28.82	17.50	0.00	2.38	2.91	3.14	29.18	16.50	0.00	2.46	2.79	3.20	29.38	17.90	0.00	2.38	3.00	2.59	29.73	20.90	0.00	2.68	3.41	3.25	29.94	17.60	0.00	2.89	3.49	3.60	30.03	16.60	0.00	2.12	2.35	2.72
MP-2-3S	28.94	20.90	0.00	1.97	1.67	2.11	29.32	19.60	0.00	2.19	2.00	2.64	29.50	19.80	0.20	2.84	1.94	2.58	29.84	22.10	0.20	3.08	2.25	3.19	29.96	20.90	0.20	2.87	3.01	3.12	30.10	18.10	0.30	2.81	2.06	3.21
MP-2-3D	29.17	21.40	1.00	2.54	2.67	2.79	29.55	20.30	0.20	2.47	2.90	3.70	29.73	20.90	0.10	2.46	2.91	3.14	30.06	22.40	0.30	2.49	3.04	3.74	30.09	22.30	0.10	2.55	2.99	3.14	30.35	19.80	0.10	2.62	2.76	3.11
MP-2-4	17.74	23.30	0.00	1.72	NM	NM	18.09	31.70	0.00	1.80	NM	NM	18.27	26.50	0.00	1.62	NM	NM	18.61	24.50	0.00	2.23	NM	NM	18.82	21.30	0.40	1.96	NM	NM	18.92	26.50	0.00	1.91	NM	NM
MP-2-5	15.96	31.30	11.20	2.17	2.54	2.68	16.30	34.50	0.20	2.31	2.50	2.66	16.49	30.40	0.00	2.44	2.38	2.13	16.85	21.40	0.00	2.89	3.03	2.66	17.03	23.90	1.50	2.05	2.22	2.39	17.13	29.70	0.00	2.05	2.39	2.26

Abbreviations DTW: Depth to water (feet) O<sub>2</sub>: Oxygen measurement of well headspace (percent oxygen) PID: Photoionization Detector measurement of well headspace (parts per million) DO: Dissolved Oxygen concentration (milligrams per liter) NA: Not Accessible NM: Not Measured Note

 Note

 (1)
 DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%

 (2)
 DO measurements are inaccurate due to malfunctioning DO meter

Table 4Groundwater Treatment Performance MonitoringFourth Quarter 2012Hempstead Intersection Street Former MGP Site

# System No. 1

			October	8, 2012					October 2	5, 2012					November	14, 2012				N	lovember	30, 2012					December	r 13, 2012		
ID	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head-space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top
MP-1-1S	25.97	40.40	0.00	2.95	NM	NM	26.28	40.80	0.00	2.92	NM	NM	26.03	40.00	0.20	3.24	NM	NM	26.63	40.30	0.00	3.10	NM	NM	26.75	23.50	0.00	3.31	NM	NM
MP-1-1D	25.81	20.90	0.00	2.99	2.22	3.16	26.15	20.90	0.00	3.01	2.11	2.34	25.87	20.90	0.00	2.97	2.77	2.99	26.46	20.90	0.00	2.59	2.50	2.99	26.61	20.90	0.00	3.35	2.70	2.81
MP-1-2S	20.42	33.80	0.50	3.52	NM	NM	20.70	31.60	0.40	3.68	NM	NM	20.55	31.60	0.30	3.07	NM	NM	21.00	33.80	0.90	3.66	NM	NM	21.16	30.70	0.80	3.55	NM	NM
MP-1-2D	20.09	20.60	0.00	2.40	2.66	3.50	20.31	20.50	0.30	2.01	2.56	2.78	20.16	20.60	0.30	2.18	2.61	2.81	20.62	20.50	0.00	2.44	3.46	3.91	20.76	40.10	0.30	3.42	3.58	3.52
MP-1-3S	18.26	20.90	0.40	3.58	NM	NM	18.48	20.90	0.10	3.15	NM	NM	18.57	20.90	0.00	3.35	NM	NM	18.80	20.90	0.50	3.38	NM	NM	18.93	20.90	0.40	3.02	NM	NM
MP-1-3D	18.24	20.90	0.30	3.61	3.13	3.71	18.49	19.70	0.10	3.37	3.44	3.70	18.54	20.90	0.00	3.41	3.54	3.69	18.77	20.90	0.30	3.26	3.38	3.89	18.89	20.90	0.20	3.16	3.27	3.51
MP-1-4S	20.84	22.90	0.00	3.12	NM	NM	21.04	20.90	0.00	3.20	NM	NM	21.05	22.40	0.00	3.45	NM	NM	21.33	23.50	0.00	2.83	NM	NM	21.45	31.40	0.00	2.01	NM	NM
MP-1-4D	21.02	20.60	0.20	2.02	2.78	4.35	21.22	20.50	0.00	2.23	2.39	2.98	21.21	20.60	0.10	2.14	2.43	3.28	21.48	20.10	0.70	2.70	1.87	3.20	21.57	20.90	0.50	1.89	2.52	2.80
MP-1-5	25.53	16.20	0.00	3.51	NM	NM	25.80	16.70	0.00	3.43	NM	NM	25.88	17.90	0.00	3.71	NM	NM	26.11	16.10	0.00	3.31	NM	NM	26.25	20.90	0.00	3.72	NM	NM
MP-1-6	18.02	17.50	0.10	2.72	NM	NM	18.26	16.90	0.20	2.49	NM	NM	18.34	17.60	0.30	2.68	NM	NM	18.57	17.00	0.60	2.55	NM	NM	21.89	17.00	0.00	2.37	NM	NM
MP-1-7	21.34	18.90	0.00	3.54	NM	NM	21.55	20.10	0.00	2.42	NM	NM	21.58	20.70	0.00	2.91	NM	NM	21.84	18.10	0.00	2.24	NM	NM	21.91	18.00	0.00	2.41	NM	NM
MP-1-8	22.38	20.90	0.00	2.16	NM	NM	22.62	20.90	0.00	2.62	NM	NM	22.65	20.90	0.00	2.61	NM	NM	22.89	20.90	0.00	2.45	NM	NM	23.02	20.90	0.60	0.00	NM	NM

# System No. 2

			October 8	8, 2012					October 2	24, 2012					November	13, 2012					November 2	29, 2012					December	<sup>.</sup> 12, 2012		
ID	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head-space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top	DTW (ft)	O <sub>2</sub> Head- space (%O <sub>2</sub> ) <sup>(1)</sup>	PID (ppm)	DO <sup>(2)</sup> (mg/L) Bottom	DO <sup>(2)</sup> (mg/L) Middle	DO <sup>(2)</sup> (mg/L) Top
MP-2-1	29.07	23.40	0.00	2.90	NM	NM	29.29	24.30	0.00	2.85	NM	NM	29.38	24.50	0.00	2.48	NM	NM	29.61	23.10	0.00	2.72	NM	NM	29.76	24.70	0.00	2.59	NM	NM
MP-2-2	30.15	17.20	0.00	3.52	3.66	4.04	30.37	18.50	0.00	2.63	3.84	3.97	30.55	17.70	0.00	3.15	3.38	3.24	30.47	18.50	0.00	2.53	2.91	3.07	30.86	17.50	0.00	3.05	3.26	3.70
MP-2-3S	30.26	19.40	0.50	3.40	2.36	2.74	30.50	20.90	0.40	2.90	2.27	3.66	30.52	20.30	0.10	2.95	2.70	2.89	30.81	21.10	0.30	3.33	2.98	3.46	30.95	19.30	0.60	3.80	3.61	3.83
MP-2-3D	30.46	20.10	0.40	2.41	3.04	3.97	30.72	20.90	0.40	2.65	2.96	3.31	30.76	21.10	0.00	2.39	2.91	3.04	30.00	20.90	0.40	3.08	2.61	3.41	31.02	40.60	0.90	3.06	3.33	3.58
MP-2-4	19.00	27.70	0.10	2.42	NM	NM	19.25	26.50	0.00	2.33	NM	NM	19.29	22.40	0.00	2.08	NM	NM	19.53	26.10	0.00	2.39	NM	NM	19.69	20.90	0.00	1.89	NM	NM
MP-2-5	17.22	28.90	0.00	2.73	2.81	2.87	17.48	29.90	0.00	3.21	3.37	4.46	17.48	25.60	0.00	2.36	2.80	2.99	17.75	29.50	0.00	2.55	2.99	2.96	17.89	20.90	0.00	2.57	2.78	2.88

#### **Abbreviations**

DTW: Depth to water (feet)

O<sub>2</sub>: Oxygen measurement of well headspace (percent oxygen)

PID: Photoionization Detector measurement of well headspace (parts per million)

DO: Dissolved Oxygen concentration (milligrams per liter)

NA: Not Accessible

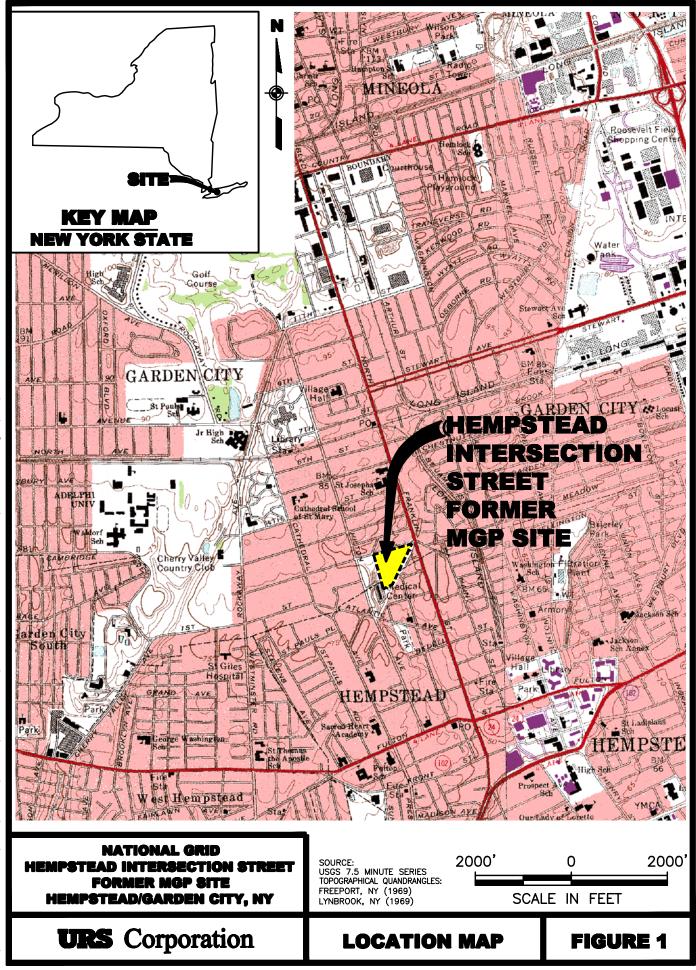
NM: Not Measured

Note

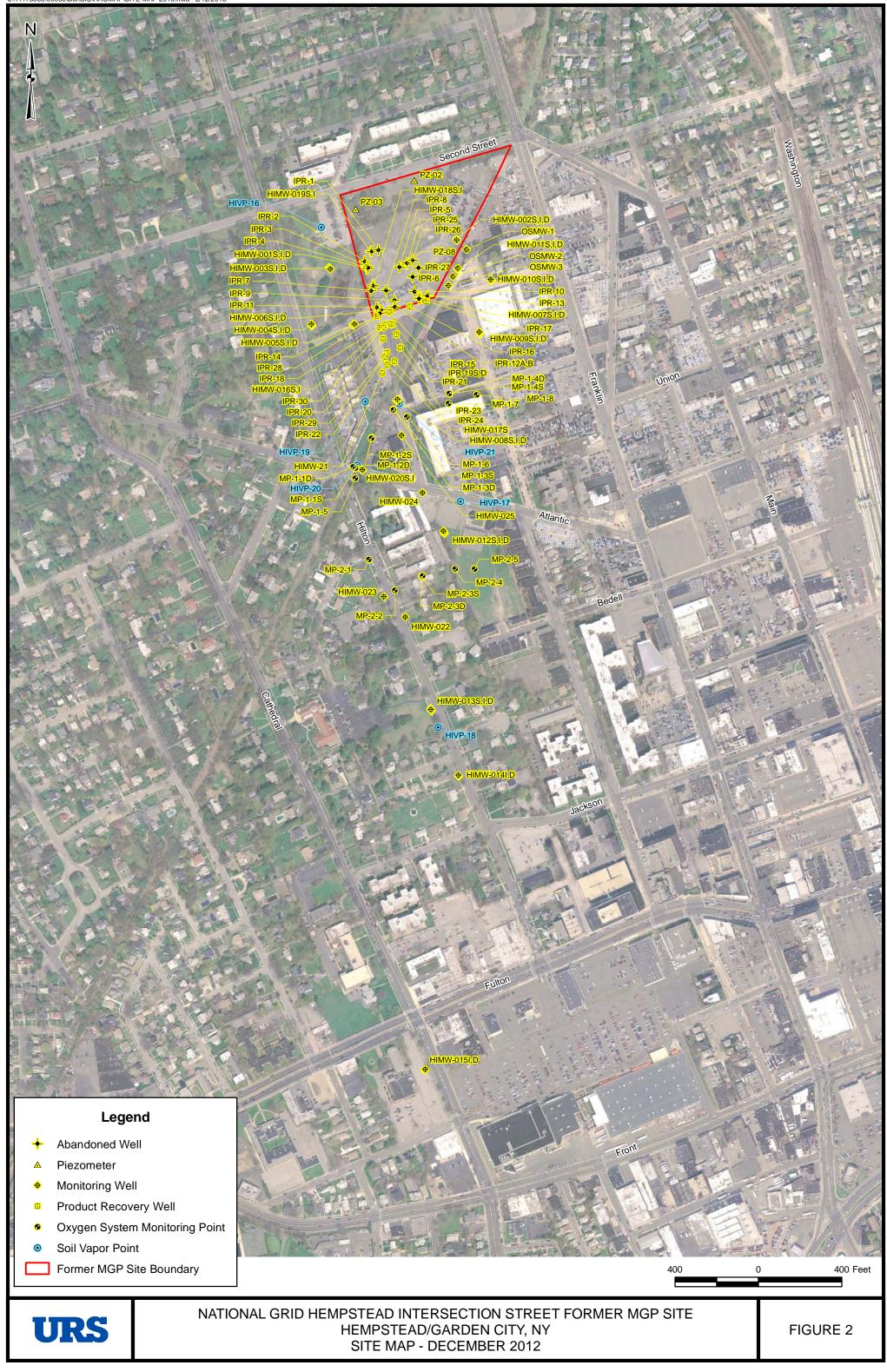
(1) DO Headspace monitor oxygen detection limit is 40.0%; normal oxygen level in air is 20.9%

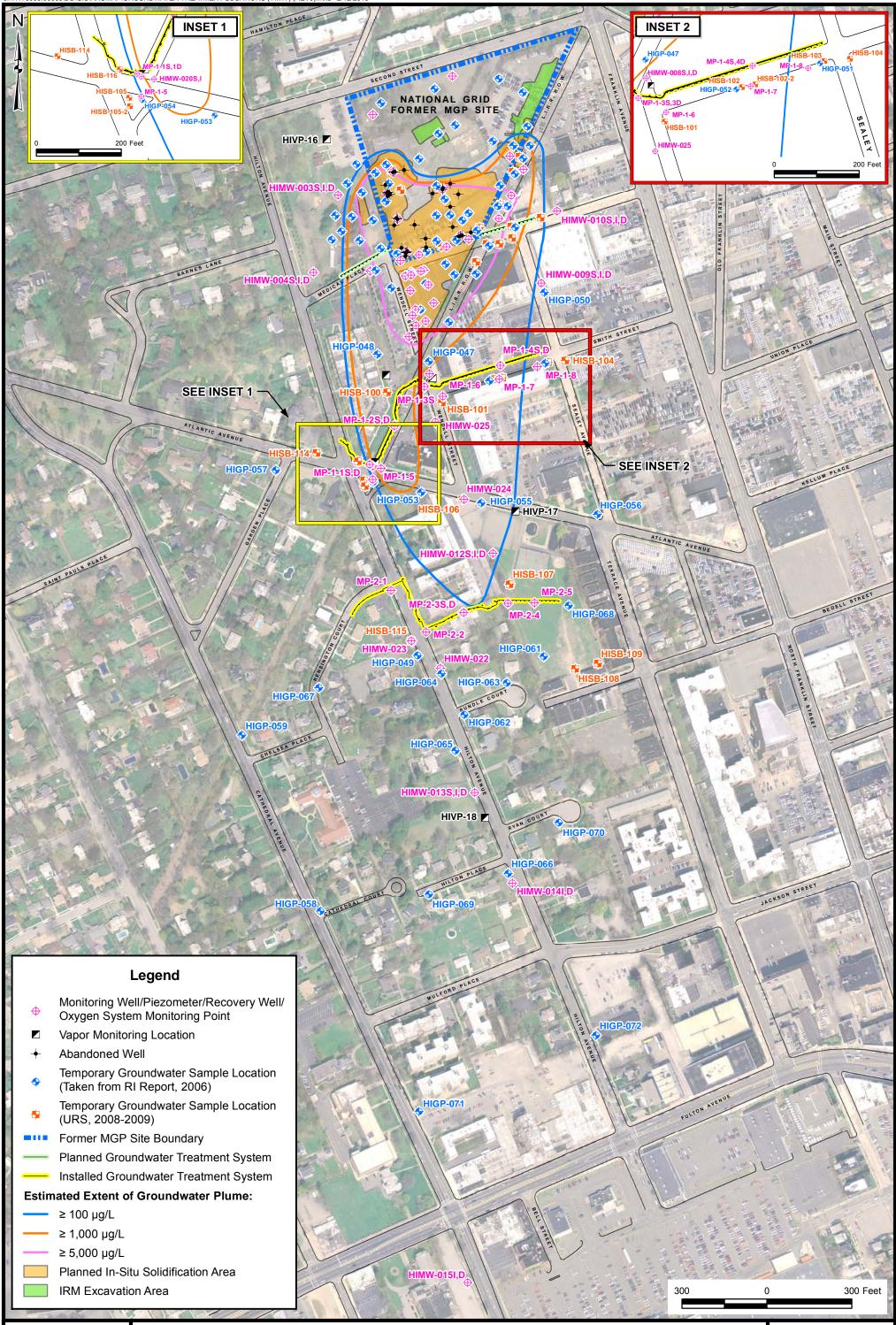
(2) DO measurements are inaccurate due to malfunctioning DO meter

## **FIGURES**



RAL

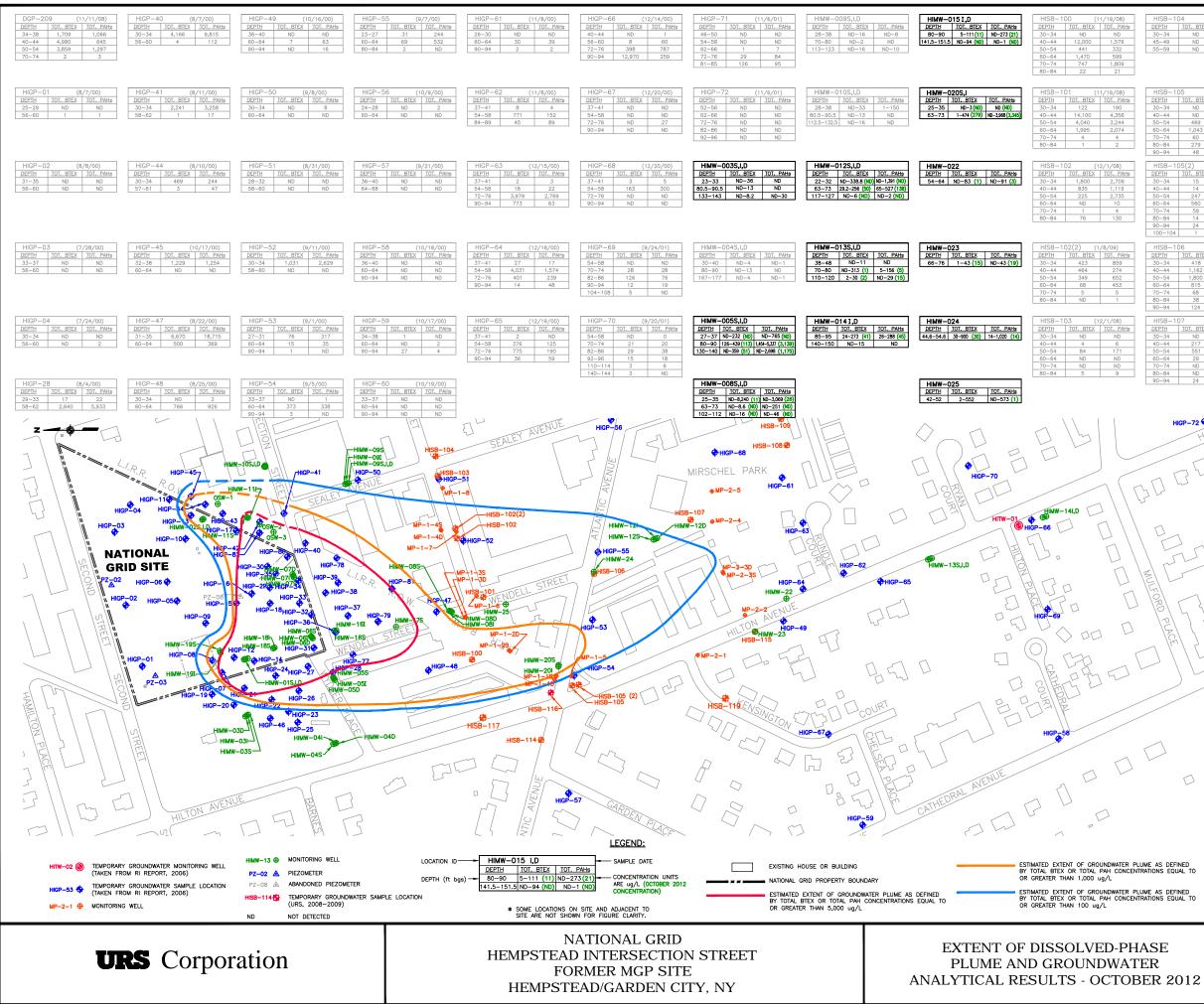






NATIONAL GRID HEMPSTEAD INTERSECTION STREET FORMER MGP SITE HEMPSTEAD/GARDEN CITY, NEW YORK SOIL REMEDIATION AND GROUNDWATER TREATMENT LOCATIONS - DECEMBER 2012

FIGURE 3



HISB-1	04 (9	/24/08)
DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	ND
45-49	ND	ND
55-59	ND	ND

HISB-1	05 (1	2/4/08)
1110-02		
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-1	05(2) (1	2/18/08)
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

HISB-1	06 (1	2/4/08)
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

90-94 24 221 100-104 1 ND

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

HISB-10	08 (1	2/9/08)
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-10	)9 (1	2/10/08)
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
HISB-1	14 (1	2/23/08)
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

HISB-1	15 (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

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
HISB-1	17 (	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-1	19 (4	/14/10)
DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	2
40-44	ND	1
50-54	ND	2

HISB-116 (6/23/09) DEPTH TOT. BTEX TOT. PAHs

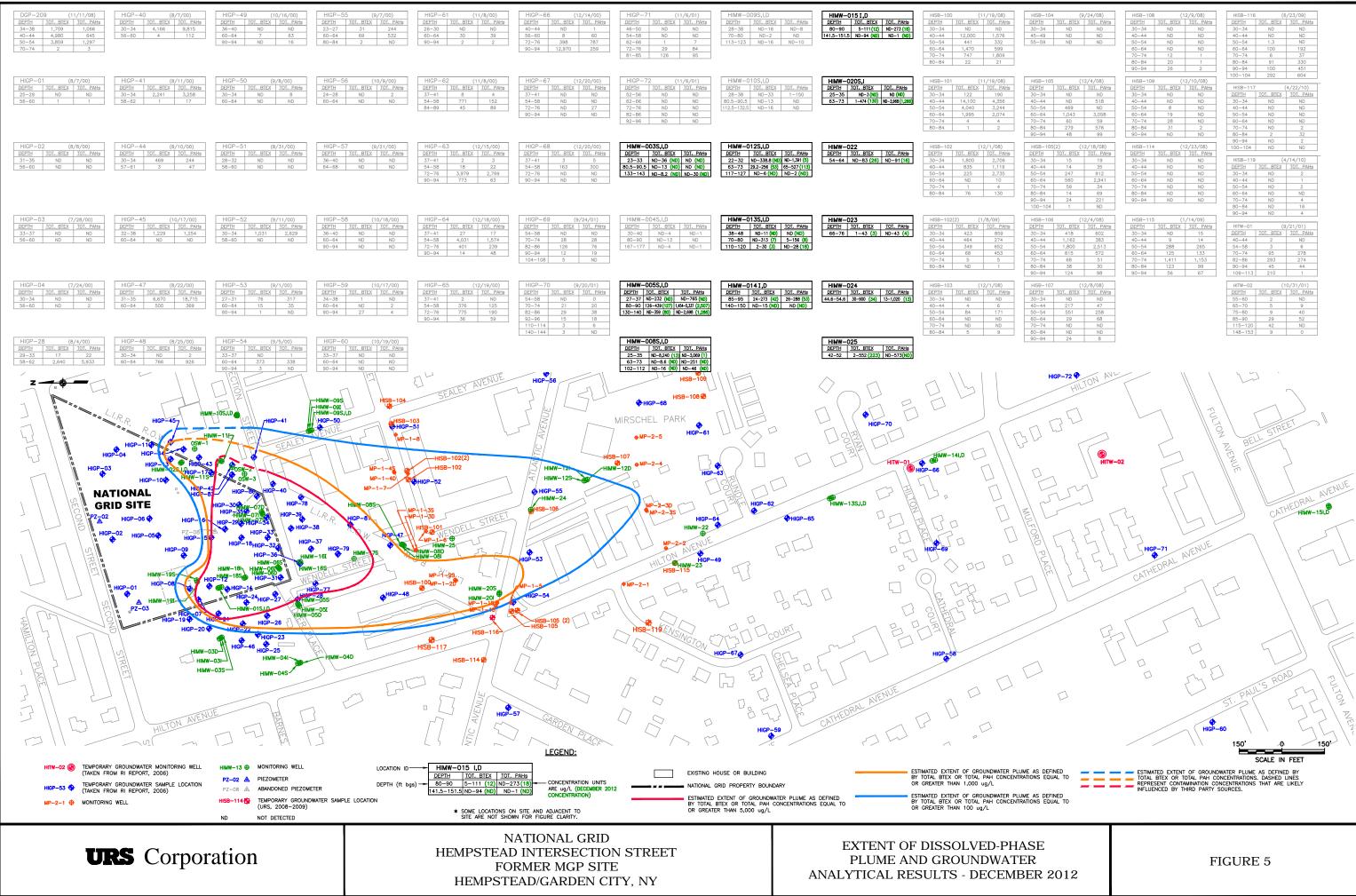
30-34	ND	Z
60-64	ND	ND
70-74	ND	4
80-84	ND	16
90-94	ND	4

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
HITW-02	2 (1	0/31/01)

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

[] 30 HIMW-15I,D HIGP-SCALE IN FEE ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. DASHED LINES REPRESENT CONTAMINATION CONCENTRATIONS THAT ARE LIKEL INFLUENCED BY THIRD PARTY SOURCES.

FIGURE 4



HISB-104	(9	/24/08)
DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	ND
45-49	ND	ND
55-59	ND	ND

HISB-105	. (1	2/4/08)
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-105(2) (12/18/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30-34	15	19
40-44	1.4	36

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-106	(1	2/4/08)
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-107	(1	2/8/08)
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

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-109	9 (12/10/08)	
DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	ND

50-54	8	ND
60-64	19	ND
70-74	28	ND
80-84	31	2
90-94	ND	ND
HISB-114	(1	2/23/08)
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

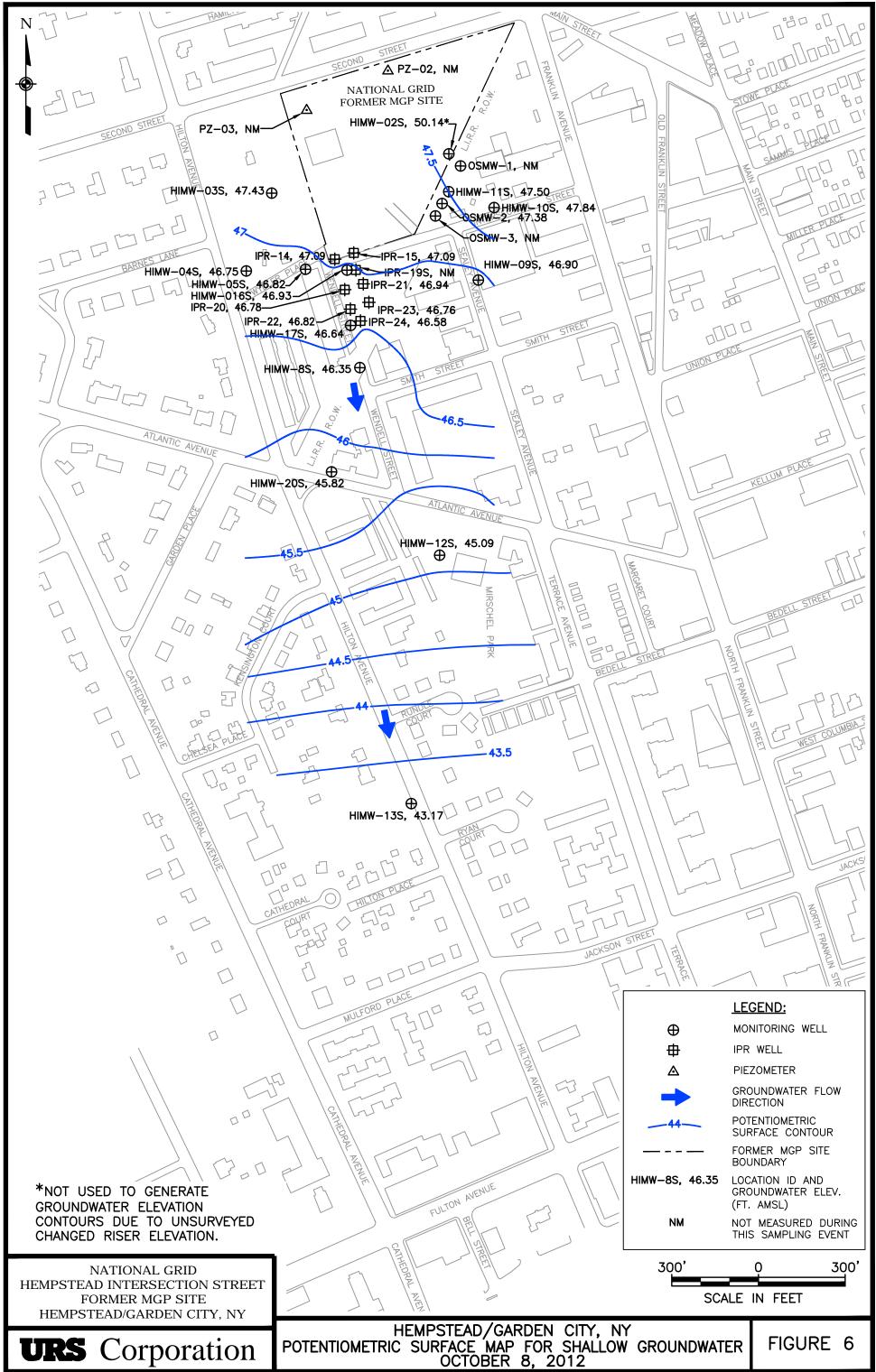
HISB-115	(1	/14/09)
DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	15
40-44	9	14
50-54	288	265
60-64	125	133
70-74	1,411	1,153
80-84	123	99
90-94	56	67

30-34	IND	UPI IND
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
HISB-117		4/22/10)
HISB-117	(	4/22/10)
DEPTH	TOT. BTEX	4/22/10) <u>TOT. PAHs</u>
DEPTH	TOT. BTEX	TOT. PAHs
<u>DEPTH</u> 30-34	TOT. BTEX ND	TOT. PAHs ND
<u>DEPTH</u> 30-34 40-44	TOT. BTEX ND ND	TOT. PAHs ND ND
<u>DEPTH</u> 30-34 40-44 50-54	TOT. BTEX ND ND ND	TOT. PAHs ND ND ND
DEPTH 30-34 40-44 50-54 60-64	TOT. BTEX ND ND ND ND	TOT. PAHs ND ND ND ND
DEPTH 30-34 40-44 50-54 60-64 70-74	TOT. BTEX ND ND ND ND ND	TOT. PAHs ND ND ND ND 2

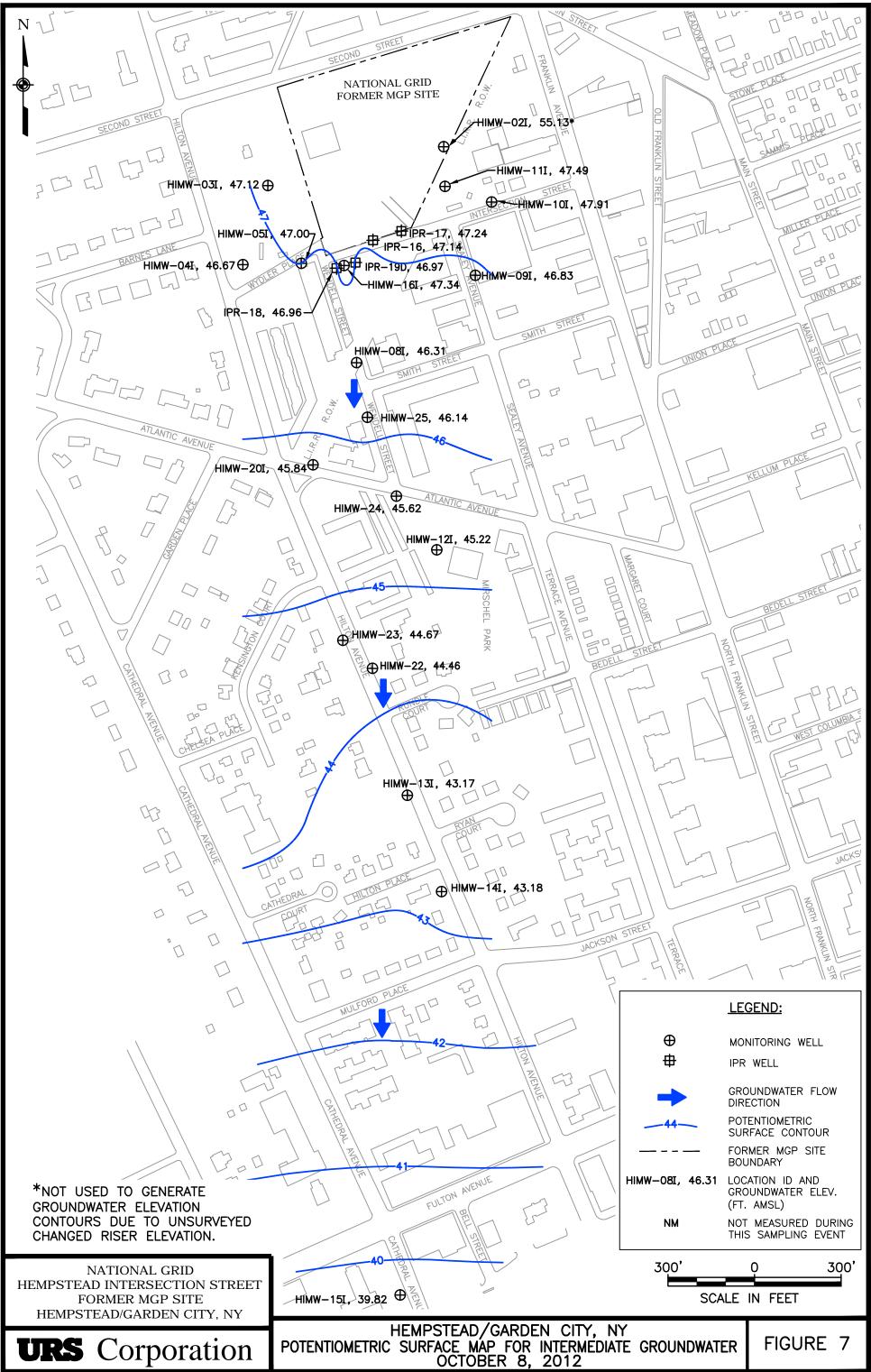
HISB-119	) (4	/14/10)
DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	2
40-44	ND	1
50-54	ND	2
60-64	ND	ND
70-74	ND	4
80-84	ND	16
90-94	ND	4

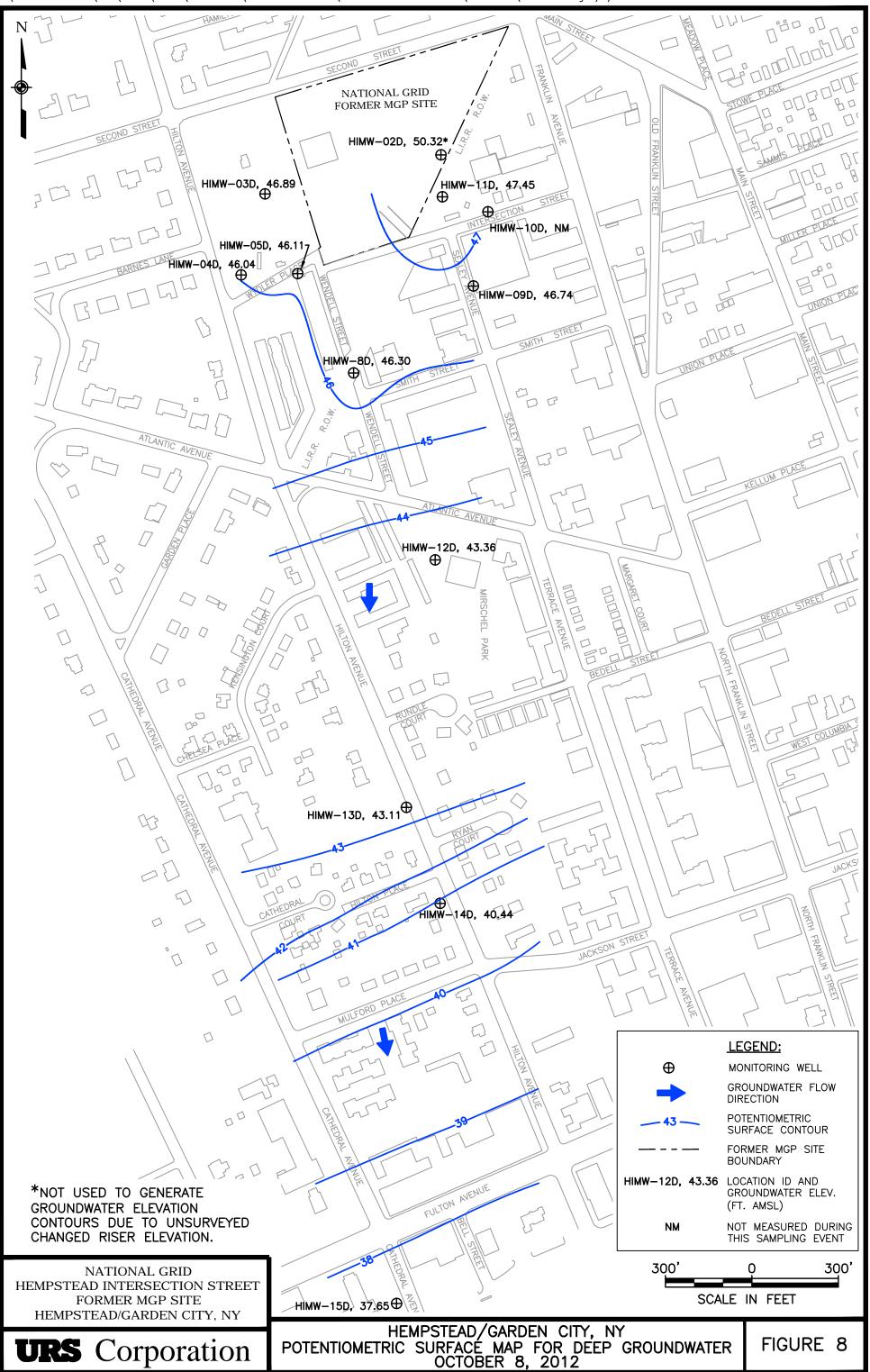
HITW-01	(9	/21/01)
DEPTH	TOT. BTEX	TOT. PAHs
40-44	2	ND
54-58	3	6
70-74	95	278
82-86	293	274
90-94	45	44
109-113	210	1

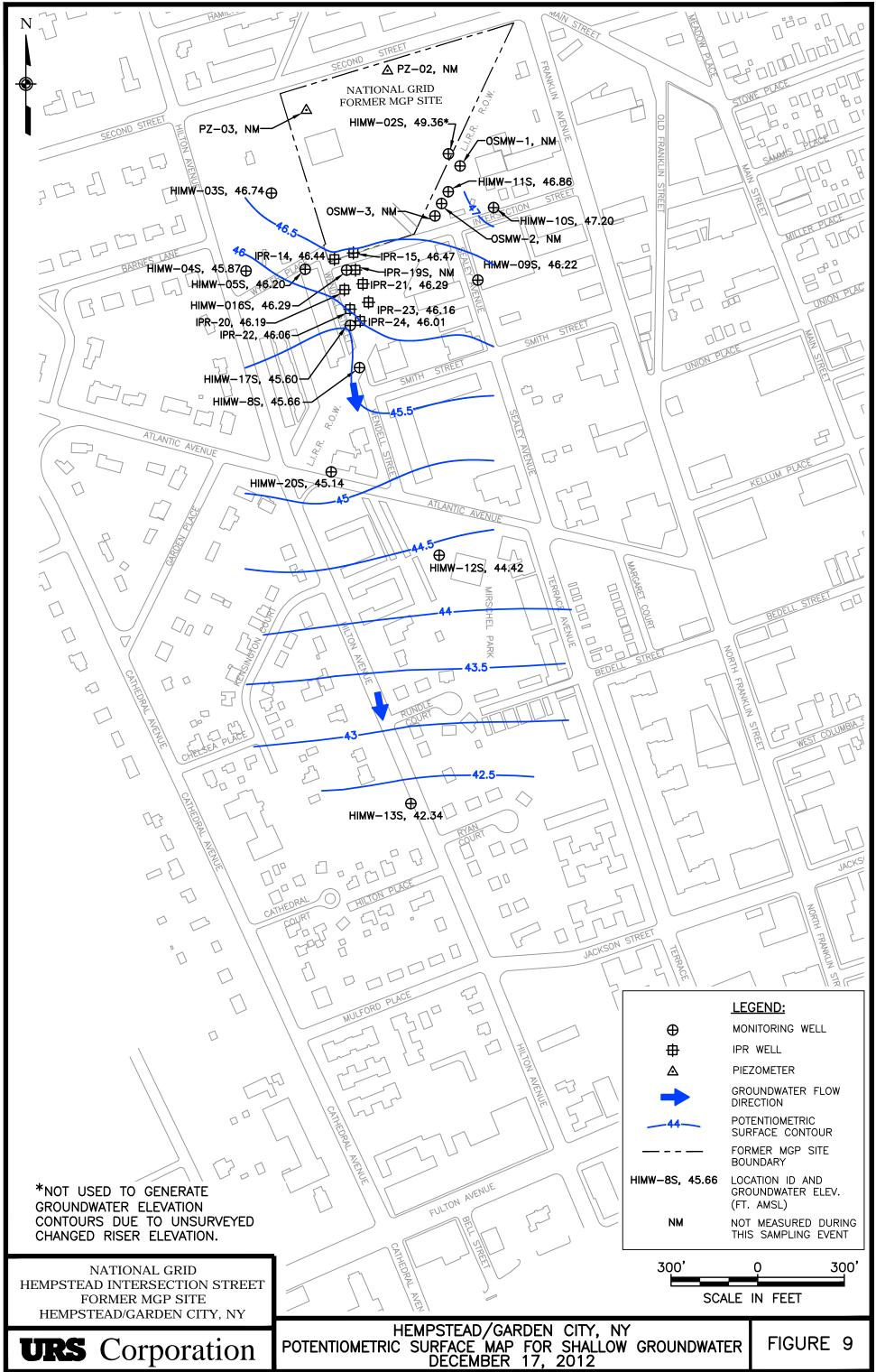
HIW-02	()	0/31/01)
DEPTH	TOT. BTEX	TOT. PAHs
55-60	2	ND
65-70	5	9
75-80	9	40
85-90	29	52
115-120	42	ND
148-153	9	0



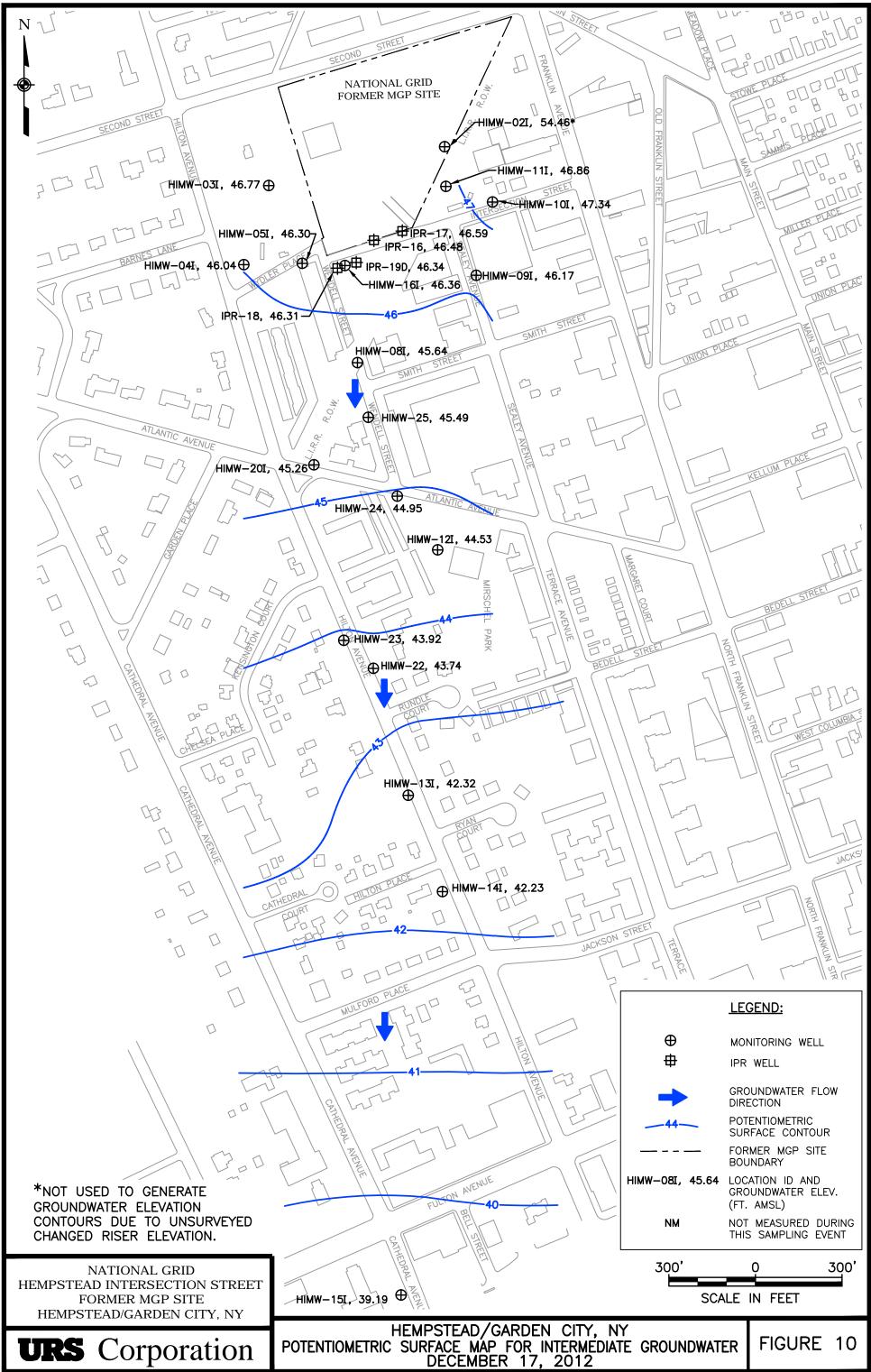
J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\DEC 2012\FIGURE 7.dwg 3/7/13 - 2 RAL

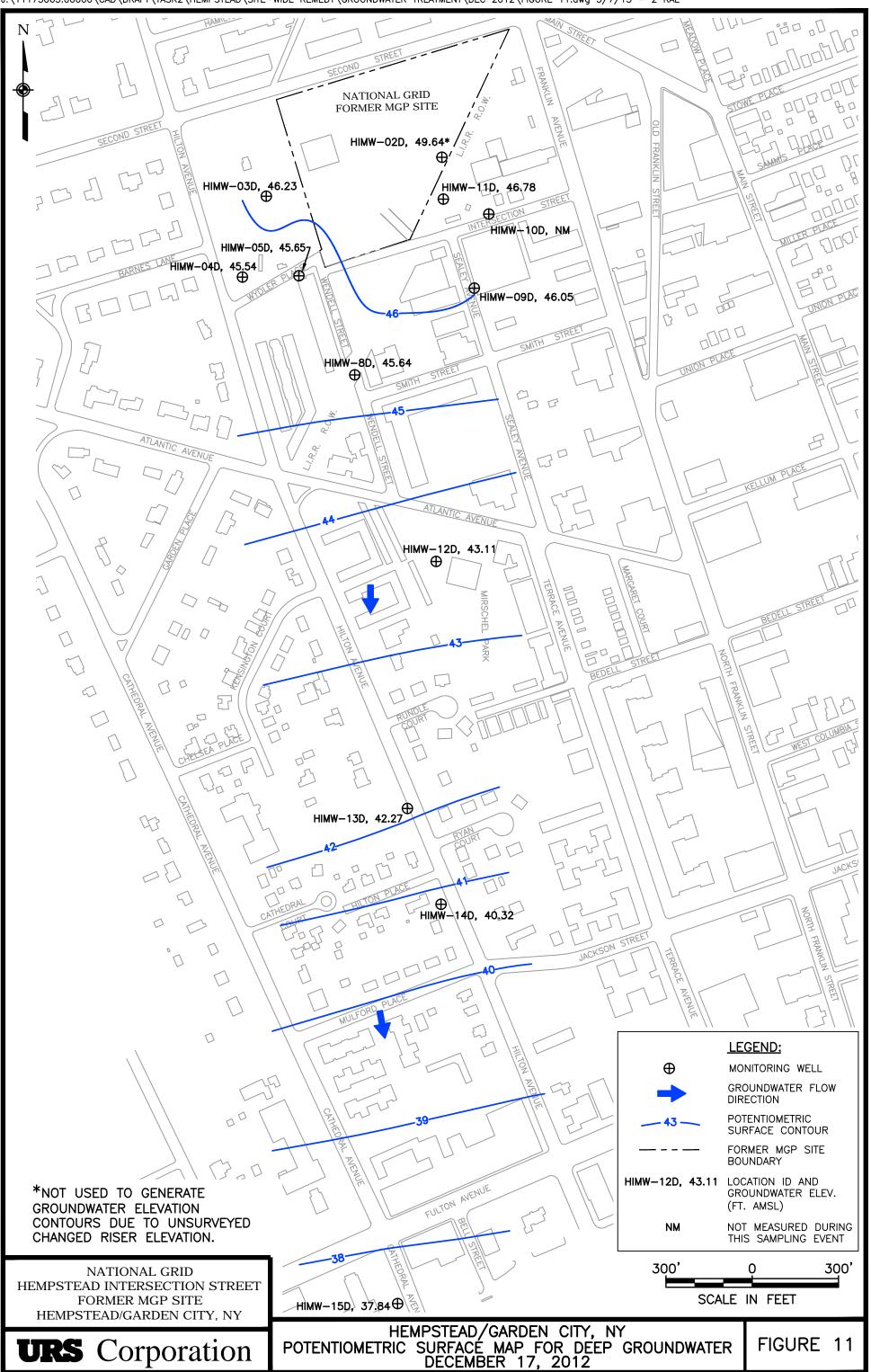


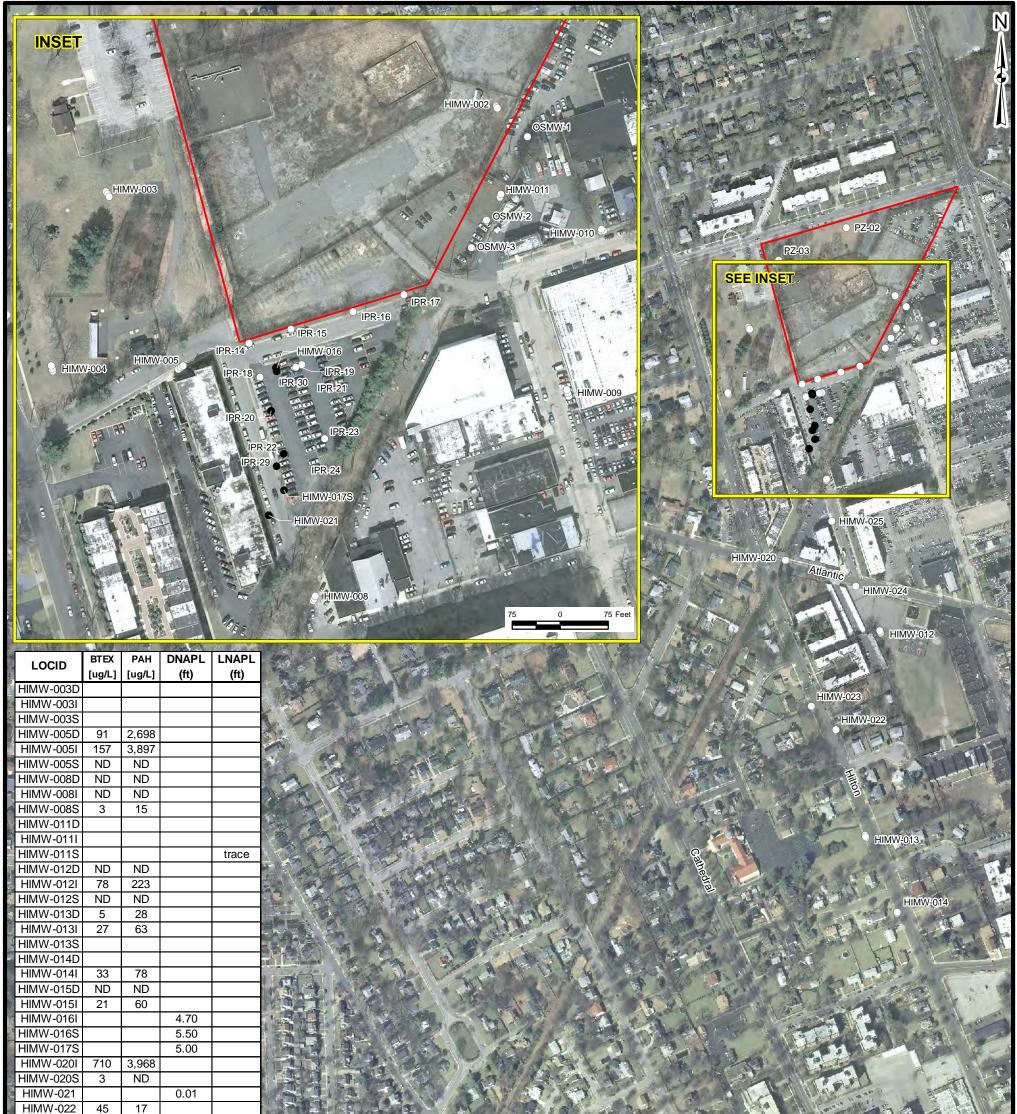




J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\DEC 2012\FIGURE 10.dwg 3/7/13 - 3 RAL









Former MGP Site Boundary

400 Feet 400 0

FIGURE 12

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

ND - Non Detect



HIMW-023

HIMW-024

30

827

43

808

HIMW-022

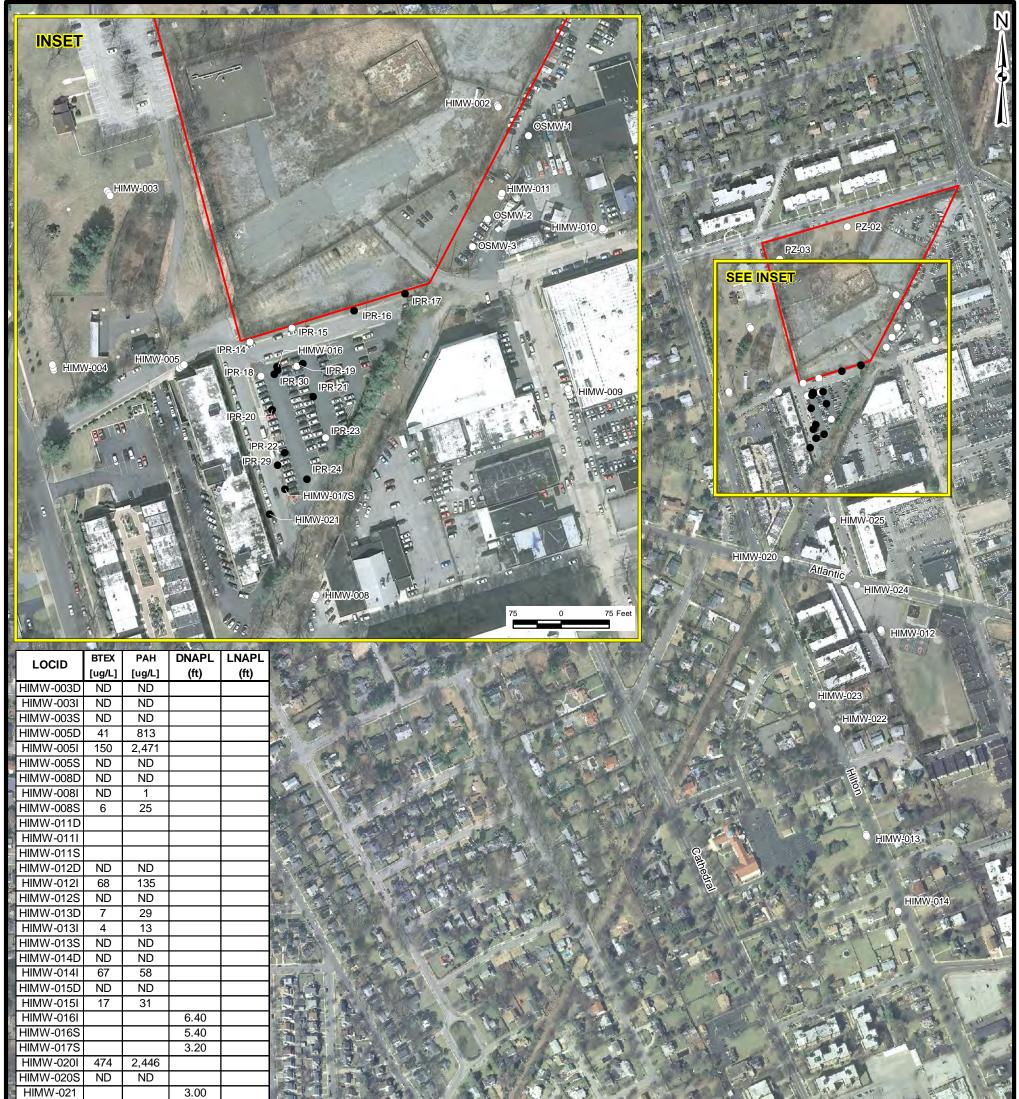
HIMW-023

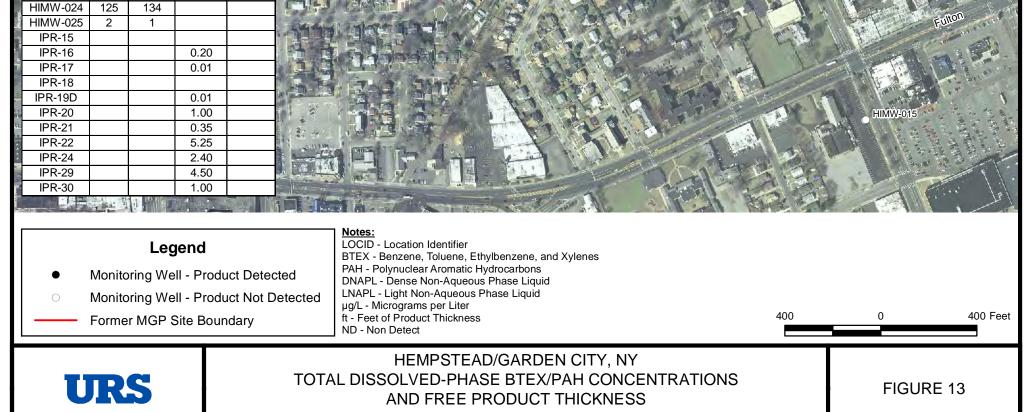
91

7

83

3





**SECOND QUARTER 2012** 





# **APPENDIX** A

# DATA USABILITY SUMMARY REPORTS

# THIRD AND FOURTH QUARTERS

# (Provided in Electronic Format Only)

# APPENDIX A DATA USABILITY SUMMARY REPORT THIRD QUARTER 2012

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

Analyses Performed by: H2M LABS, INC.

**Prepared For:** 

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

Prepared by:

URS CORPORATION 77 GOODELL STREET BUFFALO, NY 14203

DECEMBER 2012

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V.	NON-CONFORMANCES A-3
VI.	SAMPLE RESULTS AND REPORTING A-3
VII.	SUMMARY

### TABLES

(Following Text)

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

### APPENDICES

(Following Tables)

- Attachment A Validated Form 1's
- Attachment B Support Documentation

### I. INTRODUCTION

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

This DUSR discusses the usability of the analytical data for twenty (20) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and three (3) trip blanks collected by URS personnel on October 9-16, 2012. The samples were collected as part of the 2012 3<sup>rd</sup> quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site. Note, the 3<sup>rd</sup> quarter sampling event, which usually takes place in July was delayed until October due to onsite construction.

### II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The samples were analyzed by H2M Labs, 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 (LCS) recoveries, and surrogate/internal standard recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

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

### III. DATA DELIVERABLE COMPLETENESS

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

### IV. SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), except for the following instances, where no qualification of the data was necessary.

- For samples collected on October 9-10, 2012, sample IDs were not written on the container labels. Since sample collection times were properly documented on the sample containers, no further action by the laboratory was deemed necessary.
- For sample HIMW-25, no BTEX vials were received at the laboratory. Sample recollection was not performed. This sample is scheduled to be collected during the next quarterly sampling event.

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

• For sample HIMW-20I, the associated initial matrix spike (MS) was inadvertently not fortified by the laboratory for PAHs. The resulting re-extraction was performed 17 days outside holding time (i.e., 7 days to extract from date of collection). Since the re-extracted MS and associated LCS results were within QC limits, no data qualification to the parent sample results was deemed necessary.

### V. NON-CONFORMANCES

Apart from the minor non-conformances noted above, which did not result in data qualification, no other non-conformances were identified. The data are usable as reported.

### VI. SAMPLE RESULTS AND REPORTING

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

The laboratory case narratives 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-05S 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. URS does not recommend the re-collection of any samples at this time.

#### A-3

**Prepared By:** 

Peter R. Fairbanks, Senior Chemist

Date: 12/11/12

**Reviewed By:** 

George E. Kisluk, Sentor Chemist

Date: 12-11-12

### **DEFINITIONS OF USEPA REGION II DATA QUALIFIERS**

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

Location ID			HIMW-005D	HIMW-005I	HIMW-005S	HIMW-005S	HIMW-008D
Sample ID Matrix			HIMW-05D	HIMW-05I	DUP 101212	HIMW-05S	HIMW-08D
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		-	-	-	-	-
Date Sampled			10/12/12	10/12/12	10/12/12	10/12/12	10/16/12
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							· · ·
Benzene	UG/L	-	1 U	2	10	1 U	1 U
Ethylbenzene	UG/L	-	10	1	10	10	10
Toluene	UG/L	-	10	1 U	10	1 U	1 U
Xylene (total)	UG/L	-	51	110	1 U	1 U	1 U
Total BTEX	UG/L	100	51		ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	120 DJ	400 DJ	10 U	10 U	10 U
Acenaphthene	UG/L	-	2 J	12	10 U	10 U	10 U
Acenaphthylene	UG/L	-	46	180 DJ	10 U	10 U	10 U
Anthracene	UG/L	-	10 U	2 J	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L		10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	7 J	29	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 Ü	10 U	10 U
Naphthalene	UG/L	-	1,000 D	2,500 D	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	16	10 U	10 U	10 U
Pyrene	UG/L	-	10 Ü	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	1,175	3,139	ND	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.

D - Result reported from a secondary dilution analysis. Made By\_PRF 11/30/12\_; Checked By\_CHECK\_12/3/12\_

Location ID			HIMW-0081	HIMW-008S	HIMW-012D	HIMW-012I	HIMW-012S
Sample ID Matrix			HIMW-08I	HIMW-08S	HIMW-12D	HIMW-12I	HIMW-12S
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		•	-		-	-
Date Sampled			10/16/12	10/16/12	10/15/12	10/15/12	10/15/12
Parameter	Units	Criteria*					
Volatile Organic Compounds		· · · ·		<u> </u>		-	
Benzene	UG/L	-	10	6	10	46	10
Ethylbenzene	UG/L	-	10	1 U	1 Ų	10	10
Toluene	UG/L	-	1 U	1 U	1 U	10	10
Xylene (total)	UG/L	-	1 U	5	10	4	1 U
Total BTEX	UG/L	100	ND	11	ND	50	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	5 J	10 U	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U	10 Ü	47	10 U
Acenaphthylene	UG/L		10 U	4 J	10 U	44	10 U
Anthracene	UG/L	-	10 U	1 J	10 Ü	2 J	10 U
Benzo(a)anthracene	UG/L	-	ົ 10 ປ	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U				
Benzo(b)fluoranthene	UG/L	-	10 U				
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U 10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	
Chrysene	UG/L	-	10 U				
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U 10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	
Fluorene	UG/L	-	10 U	10 0	10 Ü	30	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U				
Naphthalene	UG/L	•	10 U	16	10 Ü	2 J	10 U
Phenanthrene	ŲG/L	-	10 U	10 U	10 U	13	10 U
Pyrene	UG/L	-	10 U				
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	26	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.

D - Result reported from a secondary dilution analysis.

Made By\_PRF 11/30/12\_; Checked By 010 10 10 10

Location ID			HIMW-013D	HIMW-013I	HIMW-014	HIMW-015D	HIMW-015i
Sample ID Matrix			HIMW-13D	HIMW-13I	HIMW-14I	HIMW-15D	DUP 101012
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		-	-	•	-	
Date Sampled			10/09/12	10/09/12	10/10/12	10/10/12	10/10/12
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds				-			
Benzene	UG/L	-	2	1	22	1 U	8
Ethylbenzene	UG/L	-	10	1 U	14	1 U	10
Toluene	UG/L	-	1 U	10	10	1 U	1 U
Xylene (total)	UG/L	-	1 U	10	5	10	2
Total BTEX	UG/L	100	2	1	41	NĎ	10
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	5 J	10 U	14	10 U	4 J
Acenaphthylene	UG/L	-	10	2 J	19	10 U	16
Anthracene	UG/L	-	10 U	10 U	10 Ū	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 Ü	10 U	10 U
Benzo(b)fluoranthene	UG/L	•	10 Ü	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 Ü	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 7 J	10 U	10 U
Fluorene	UG/L		10 U	10 U		10 U	10 0
Indeno(1,2,3-cd)pyrene	UG/L	· -	10 U	10 U	10 U		10 U
Naphthalene	UG/L		10 U	10 U	1 J	10 U	
Phenanthrene	UG/L	-	10 U	3 J	4 J	10 U	2 J
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	15	5	45	ND	22

\*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.

D - Result reported from a secondary dilution analysis. Made By\_PRF 11/30/12\_; Checked By\_Chickson 12 3/12

Location ID			HIMW-015	HIMW-0201	HIMW-020S	HIMW-022	HIMW-023
Sample ID Matrix			HIMW-15I	HIMW-201	HIMW-20S	HIMW-22	HIMW-23
			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	t)		-	-	-	-	-
Date Sampled			10/10/12	10/11/12	10/11/12	10/09/12	10/11/12
Parameter	Units	Criterla*					
Volatile Organic Compounds							
Benzene	UG/L	-	9	20	1 U	1	6
Ethylbenzene	UG/L	-	10	3	1 U	1 U	2
Toluene	UG/L	-	10	6	10	1 U	10
Xylene (total)	UG/L	-	2	250	10	10	7
Total BTEX	UG/L	100	11		ND	1	15
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	510 D	10 U	10 U	10 U
Acenaphthene	UG/L	-	4 J	12	10 U	10 U	2 J
Acenaphthylene	UG/L	-	15	260 DJ	10 U	3 J	13
Anthracene	UG/L	-	10 U	4 J	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 10 U
Benzo(k)fluoranthene	UG/L		10 U	10 U	10 U	10 U 10 U	10 U
Chrysene	UG/L	-	10 Ü	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 20	10 U 10 U	10 U	3J
Fluorene	UG/L	-	10 U	30	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	2,500 D		10 U	1 J
Phenanthrene	UG/L	-	2 J	29	· 10 U		10 Ü
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	21	3,345	ND	3	

\*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.

D - Result reported from a secondary dilution analysis. Made By\_PRF 11/30/12\_; Checked By\_CHARLAND

Location ID	HIMW-024	HIMW-025		
Sample ID	HIMW-24	HIMW-25		
Matrix	Groundwater	Groundwater		
Depth Interval (I	-	-		
Date Sampled			10/11/12	10/12/12
Parameter	Units	Criteria*		
Volatile Organic Compounds				
Benzene	UG/L	-	13	NA
Ethylbenzene	UG/L	-	11	NA
Toluene	UG/L		10	NA
Xylene (total)	UG/L	-	6	NA
Total BTEX	UG/L	100	30	NA
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	10 U	10 U
Acenaphthene	UG/L	-	3 J	10 U
Acenaphthylene	UG/L	-	4 J	10 U
Anthracene	UG/L		10 U	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	-	3 J	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U
Naphthalene	UG/L	-	2 J	1 J
Phenanthrene	UG/L	-	2 J	10 U
Pyrene	UG/L	-	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	14	1

\*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.

D - Result reported from a secondary dilution analysis. Made By\_PRF 11/30/12\_; Checked By\_Checked B

Location ID			FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID	TB 101012	TB 101212	FB-101612	TB-101612		
Matrix			Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (f	t)		•	-	-	-
Date Sampled			10/10/12	10/12/12	10/16/12	10/16/12
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			<u> </u>			
Benzene	UG/L	-	10	1 U	10	1 U
Ethylbenzene	UG/L	-	10	1 U	1 U	10
Toluene	UG/L	-	1 U	1 U	1 U	10
Xylene (total)	UG/L	-	10	10	10	10
Total BTEX	UG/L	100	ND	ND	ND	ND
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/L	-	NA	NA	10 U	NA
Acenaphthene	UG/L	-	NA	NA	10 U	- NA
Acenaphthylene	UG/L	-	NA	NA	10 U	NA
Anthracene	UG/L	-	NA	NA	10 U	NA
Benzo(a)anthracene	UG/L	-	NA	NA	10 Ü	NA
Benzo(a)pyrene	UG/L	-	NA	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	-	NA	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	-	NA	NA	10 U	NA
Benzo(k)fluoranthene	UG/L		NA	NA	10 U	NA
Chrysene	UG/L	· -	NA	NA	10 U	NA
Dibenz(a,h)anthracene	UG/L	-	NA	NA	10 U	NA
Fluoranthene	UG/L	-	NA	NA	10 U	NA
Fluorene	UG/L	-	NA	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L		NA	NA	10 U	NA
Naphthalene	UG/L	-	NA	NA	10 U	NA
Phenanthrene	UG/L		NA	NA	10 U	NA
Pyrene	UG/L	•	NA	NA	10 U	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	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.

Made By\_PRF 11/30/12\_; Checked By\_0112 12 13/3/12

# ATTACHMENT A

# VALIDATED FORM 1'S

#### EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13D

Lab Name: <u>H2M</u>	LABS INC		Co	ntract:	·		
Lab Code: <u>H2M</u>	Car	se No.: <u>K</u>	EY-URS	SAS No.:		SDG No.:	KEY-URS154
Matrix: (soil/w	ater)	WATER		Lab	Sample ID:	1210642-00	1A
Sample wt/vol:	<u>5</u>	(g/mL)	ML	Lab	File ID:	<u>2\P52016.D</u>	2
Level: (low/m	ed) <u>LO</u>	W		Date	Received:	10/10/12	
% Moisture: not	dec.			Date	Analyzed:	<u>10/16/12</u>	
GC Column: Rt.	<u>(-624</u>	ID:	<u>.18</u> (mm	) Dilu	tion Factor:	1.00	
Soil Extract Vo	lume :		(pL)	Soil	Aliquot Volu	une	(JTT)

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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-131

Lab Name: <u>H2M LABS</u>	INC	Contra	ct:	
Lab Code: <u>H2M</u>	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210642-002A
Sample wt/vol: 5	(g/mL	) <u>ML</u>	Lab File ID:	2\P52015.D
Level: (low/med)	LOW		Date Received:	10/10/12
% Moisture: not dec.			Date Analyzed:	10/16/12
GC Column: <u>Rtx-624</u>	ID	: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:		(µĹ)	Soil Aliquot Volu	111) mə

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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-14I

Lab Name: H2M LABS	INC	Contract:	
Lab Code: <u>H2M</u>	Case No.: KEY-UF	RS SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water	WATER	Lab Sample ID:	1210642-003A
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	2\P52014.D
Level: (low/med)	LOW	Date Received:	<u>10/10/12</u>
% Moisture: not dec		Date Analyzed:	10/16/12
GC Column: Rtx-624	ID: <u>.18</u>	(mm) Dilution Factor:	1.00
Soil Extract Volume	: (µL)	) Soil Aliquot Volu	1me(µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	22	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	14	
1330-20-7	Xylene (total)	5	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

HIMW-15D

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Lab Name:	H2M LABS	INC	Contra	et:	
Lab Code:	<u>H2M</u>	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (so	il/water)	WATER		Lab Sample ID:	1210642-004A
Sample wt/v	ol: <u>5</u>	(g/mL)	ML	Lab File ID:	2\P52078.D
Level: (1	.ow/med)	LOW		Date Received:	10/10/12
% Moisture:	not dec.			Date Analyzed:	10/19/12
GC Column:	<u>Rtx-624</u>	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extrac	t Volume:		(µL)	Soil Aliquot Volu	me (µL)

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

KEY-URS154 S33

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15I

Lab Name: H2M LABS	INC	Contra	ct:	
Lab Code: <u>H2M</u>	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210642-005A
Sample wt/vol: 5	(g/mL)	ML	Lab File ID:	2\P52013.D
Level: (low/med)	LOW		Date Received:	10/10/12
% Moisture: not dec.			Date Analyzed:	10/16/12
GC Column: <u>Rtx-624</u>	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:		(µL)	Soil Aliquot Volu	me(µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-	2 Benzene	9	
108-88-	3 Toluene	1	ប
100-41-	4 Ethylbenzene	1	U
1330-20-	7 Xylene (total)	2	

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-22

Lab Name: H2M LABS	INC	Contrad	ot:	
Lab Code: H2M	Case No.: KE	Y-URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (soil/water	WATER		Lab Sample ID:	1210642-006A
Sample wt/vol: 5	(g/mL) <u>M</u>	स	Lab File ID:	2\ <b>P52012</b> .D
Level: (low/med)	LOW		Date Received:	<u>10/10/12</u>
% Moisture: not dec			Date Analyzed:	10/16/12
GC Column: <u>Rtx-62</u>	ID: <u>.</u>	<u>18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume	:	(µL)	Soil Aliquot Volu	me (µL)

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

KEY-URS154 S35

1A VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

Lab Name:	H2M LABS I	NC	с	ontract	t:			
Lab Code:	<u>H2M</u>	Case No.:	KEY-URS	sas n	io.:		SDG No.:	KEY-URS154
Matrix: (so	il/water)	WATER		L	lab Samj	ple ID:	1210642-00	)7 <b>A</b>
Sample wt/v	ol: <u>5</u>	(g/mL)	ML	I	ab Filo	a ID:	<u>2\P52011.C</u>	2
Level: (1	ow/med)	TOM		ם	ate Re	ceived:	10/10/12	
% Moisture:	not dec.			D	ate Ana	alyzed:	10/16/12	
GC Column:	<u>Rtx-624</u>	ID:	<u>.18</u> (n	nm) D	Dilution	n Factor:	1.00	
Soil Extrac	t Volume:		(µL)	s	Boil Al:	iquot Volu		(µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	8	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

тв 101012

Lab Name: H2M LABS	INC C	ontract:	
Lab Code: H2M	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210642-008A
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	2\P52010.D
Level: (low/med)	LOW	Date Received:	10/10/12
% Moisture: not dec.		Date Analyzed:	10/16/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (m	m) Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	me (µL)

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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05D

Lab Name: H2M LABS	INC Contra	act:	
Lab Code: <u>H2M</u>	Case No.: <u>KEY-URS</u> SAS	No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210763-001A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	2\P52079.D
Level: (low/med)	LOW	Date Received:	10/12/12
% Moisture: not dec.		Date Analyzed:	10/19/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

### CONCENTRATION UNITS:

CAS NO. COMPOUND		(µg/L or µg/Kg) <u>UG/L</u>	Q	
71-43-2	Benzene	1	U	
108-88-3	Toluene	1.	U	
100-41-4	Ethylbenzene	1	U	
1330-20-7	Xylene (total)	51		

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-051

Lab Name: H2M LABS	INC Cor	ntract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210763-002A
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	2\P52080.D
Level: (low/med)	TOM	Date Received:	10/12/12
% Moisture: not dec.		Date Analyzed:	10/19/12
GC Column: Rtx-624	ID: <u>.18</u> (mm	) Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	2	L
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene (total)	110	

11/14/12

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-05S

Lab Name:	H2M LABS IN	<u>IC</u>	Contrac	it:	
Lab Code:	<u>H2M</u>	Case No.: <u>KE</u>	Y-URS SAS I	No.:	SDG No.: KEY-URS154
Matrix: (so	il/water)	WATER	:	Lab Sample ID:	1210763-003A
Sample wt/v	ol: <u>5</u>	(g/mL) <u>M</u>		Lab File ID:	2\P52081.D
Level: (1	ow/med)	LOW	t	Date Received:	10/12/12
% Moisture:	not dec.		1	Date Analyzed:	10/19/12
GC Column:	<u>Rtx-624</u>	ID: <u>.</u>	<u>18</u> (mm) 1	Dilution Factor:	1.00
Soil Extrac	t Volume:			Soil Aliquot Volu	me (µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	1	U
1.08-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1.	U
1330-20-7	Xylene (total)	1	U

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-201

Lab Name: <u>H2M LA</u>	BS INC	Contra	ot:	
Lab Code: <u>H2M</u>	Case No.: K	EY-URS SAS	No.:	SDG No.: <u>KEY-ÜRS154</u>
Matrix: (soil/wate	or) <u>WATER</u>		Lab Sample ID:	1210763-004A
Sample wt/vol:	<u>5</u> (g/mL)	ML	Lab File ID:	2\P52082.D
Level: (low/med)	LOW		Date Received:	10/12/12
% Moisture: not de	ю.		Date Analyzed:	10/19/12
GC Column: <u>Rtx-6</u>	<u>24</u> ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volum	NG :	(µL)	Soil Aliquot Volu	ume(µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	20	K,
108-88-3	Toluene	6	A
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	250	

11/14/12

1A			EPA SAMPLE NO.		
	VOLATILE	ORGANICS AN	ALYSIS DATA	SHEET	HIMW-20S
Lab Name:	H2M LABS IN	<u>ic</u>	Contra	ot:	
Lab Code:	<u>H2M</u>	Case No.: K	EY-URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (so	il/wat <b>er</b> )	WATER		Lab Sample ID:	1210763-005A
Sample wt/v	ol: <u>5</u>	(g/mL)	ML	Lab File ID:	2\P52085.D
Level: (1	ow/med)	LOW		Date Received:	10/12/12
% Moisture:	not dec.			Date Analyzed:	10/19/12
GC Column:	<u>Rtx-624</u>	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extrac	t Volume:		(µL)	Soil Aliquot Volu	me (µL)

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CONCENTRATION UNITS:

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

KEY-URS154 S42

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EPA SAMPLE NO. 1A VOLATILE ORGANICS ANALYSIS DATA SHEET HIMW-23 Lab Name: H2M LABS INC Contract: Lab Code: H2M Case No.: KEY-URS SAS No.: SDG No.: KEY-URS154 Lab Sample ID: 1210763-006A Matrix: (soil/water) WATER Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: 2\P52086.D Level: (low/med) LOW Date Received: 10/12/12 % Moisture: not dec. Date Analyzed: 10/19/12 GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00 (pL) Soil Aliquot Volume (µL) Soil Extract Volume:

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	۷,
71-43-	2 Benzene	6	
108-88-	3 Toluene	1	Ū
100-41-	4 Ethylbenzene	2	
	7 Xylene (total)	7	

**KEY-URS154 S43** 

11/14/12

EPA SAMPLE NO.

VOLATILE	ORGANICS	ANALYSIS	DATA	SHEET

HIMW-24

Lab Name:	H2M LABS IN	NC	Cont	:ract:	
Lab Code:	<u>H2M</u>	Case No.: 1	KEY-URS S	AS No.:	SDG No.: KEY-URS154
Matrix: (so	il/water)	WATER		Lab Sample ID:	1210763-007A
Sample wt/v	ol: <u>5</u>	(g/mL)	<u>МГ</u>	Lab File ID:	2\252087.D
Level: (1	ow/med)	LOW		Date Received:	<u>10/12/12</u>
% Moisture:	not dec.			Date Analyzed:	10/19/12
GC Column:	<u>Rtx-624</u>	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extrac	t Volume:		(µL)	Soil Aliquot Volu	בme (גע)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	۹,
71-43-	2 Benzene	13	7
108-88-	3 Toluene	1	ົບ
100-41-	1 Ethylbenzene	11	
1330-20-	7 Xylene (total)	6	

KEY-URS154 S44

11/14/12

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP 101212

Lab Name:	H2M LABS	INC	Contra	et:	
Lab Code:	<u>H2M</u>	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (so	il/water)	WATER		Lab Sample ID:	1210763-009A
Sample wt/v	ol: <u>5</u>	(g/mL	) <u>ML</u>	Lab File ID:	2\P52088.D
Level: (1	ow/med)	TOM		Date Received:	10/12/12
% Moisture:	not dec.			Date Analyzed:	10/19/12
GC Column:	<u>Rtx-624</u>	ID	: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extrac	t Volume:		(µL)	Soil Aliquot Volu	ume(µL)

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

EPA SAMPLE NO. 1A VOLATILE ORGANICS ANALYSIS DATA SHEET TB 101212 Lab Name: H2M LABS INC Contract: Lab Code: H2M Case No.: KEY-URS SAS No.: \_\_\_\_\_ SDG No.: KEY-URS154 Matrix: (soil/water) WATER Lab Sample ID: <u>1210763-010A</u> Sample wt/vol: <u>5</u> (g/mL) <u>ML</u> Lab File ID: <u>2\P52089.D</u> Level: (low/med) LOW Date Received: 10/12/12 Date Analyzed: <u>10/19/12</u> % Moisture: not dec. GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00 (µL) Soil Aliquot Volume (µL) Soil Extract Volume:

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

KEY-URS154 S46

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12D

Lab Name: H2M 1	LABS INC			Contra	ct:			
Lab Code: <u>H2M</u>	Ca	ase No.:	KEY-UR	s sas	No.:		SDG No.:	KEY-URS154
Matrix: (soil/wa	ter)	WATER			Lab S	Sample ID:	1210902-00	)1 <b>A</b>
Sample wt/vol:	<u>5</u>	(g/mL)	ML		Lab I	File ID:	2\₽52090.1	2
Level: (low/me	d) <u>L</u>	<u>ow</u>			Date	Received:	10/16/12	
% Moisture: not	dec.				Date	Analyzed:	10/19/12	
GC Column: <u>Rtx</u>	-624	ID:	.18	(mm)	Dilut	tion Factor:	1.00	
Soil Extract Vol	ume :		(µL)		Soil	Aliquot Volu	me	(µL)

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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M	LABS INC		Contract:			
Lab Code: <u>H2M</u>	Case	No.: <u>Key-ur</u>	<u>s</u> sas no.:		SDG No.:	KEY-URS154
Matrix: (soil/	water) WA	TER	Lab	Sample ID:	1210902-00	<u>2A</u>
Sample wt/vol:	5	(g/mL) <u>ML</u>	Lab	File ID:	<u>2\P52091.d</u>	
Level: (low/)	med) <u>LOW</u>		Date	Received:	10/16/12	
% Moisture: no	t dea.		Date	Analyzed:	10/19/12	
GC Column: R	tx-624	ID: <u>.18</u>	(mm) Dilu	ition Factor:	1.00	
Soil Extract V	olume:	(µL)	Soil	L Aliquot Volu	<b>ne</b>	(µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	46	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	4	

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12S

Lab Name: H2M LABS	S INC	Contrad	ct:	
Lab Code: <u>H2M</u>	Case No.: <u>K</u>	EY-URS SAS	No.:	SDG No.: <u>KEY-URS154</u>
Matrix: (soil/water	) <u>WATER</u>		Lab Sample ID:	1210902-003A
Sample wt/vol:	(g/mL)	ML	Lab File ID:	<u>2\P52092.D</u>
Level: (low/med)	LOW		Date Received:	10/16/12
f Moisture: not dec	•		Date Analyzed:	10/20/12
GC Column: <u>Rtx-62</u>	4 ID:	.18 (mm)	Dilution Factor:	1.00
Soil Extract Volume	:	(µL)	Soil Aliquot Volu	me (µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	1	υ
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1.	U
1330-20-7	Xylene (total)	11	U

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-08D

Lab Name: <u>H2</u>	M LABS INC		Contract:			
Lab Code: <u>H2</u>	M Case	No.: <u>KEY-UR</u>	<u>s</u> sas no.:	:	SDG No.: K	EY-URS154
Matrix: (soil/	/water) <u>W</u>	TER	Lab	Sample ID:	1210902-004	<u>A</u>
Sample wt/vol:	: <u>5</u>	(g/mL) <u>ML</u>	Lab	File ID:	2\₽52093.D	
Level: (low/	(med) LOW		Date	e Received:	10/16/12	
% Moisture: no	ot dec.		Date	e Analyzed:	10/20/12	
GC Column: R	tx-624	ID: <u>.10</u>	(mm) Dil	ution Factor:	1.00	
Soil Extract V	/olume:	(µL)	Soi	l Aliquot Volum	ne	(µL)

# CONCENTRATION UNITS:

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

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-081

Lab Name:	H2M LABS I	NC	c	ontrac				
Lab Code:	<u>H2M</u>	Case No.:	KEY-URS	8AS 1	No.:	<u> </u>	SDG No.:	KEY-URS154
Matrix: (so	il/water)	WATER		1	Lab Sample	ID;	1210902-00	5A
Sample wt/v	rol: <u>5</u>	(g/mL	) <u>ML</u>	1	Lab File ID	:	<u>2\P52094.</u>	2
Level: (1	.ow/med)	LOW		1	Date Receiv	ed:	<u>10/16/12</u>	
<pre>% Moisture:</pre>	not dec.			I	Date Analyz	ed:	10/20/12	
GC Column:	<u>Rtx-624</u>	ID	. <u>.18</u> (r	nm) I	Dilution Fa	ctor:	1.00	
Soil Extrac	t Volume:		(µL)		Soil Aliquo	t Volu	me	(µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-4	3~2 Benzene	1	ΰ
108-8	18-3 Toluene	1.	U
100-4	1-4 Ethylbenzene	1	U
1330-2	20-7 Xylene (total)	1	U

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-08S

Lab Name:	H2M LABS	INC	Co	ontract:	·		
Lab Code:	<u>H2M</u>	Case No.:	KEY-URS	SAS No.:		SDG No.:	KEY-URS154
Matrix: (so	il/water)	WATER		Lab	Sample ID:	1210902-00	<u>6A</u>
Sample wt/v	ol: <u>5</u>	(g/mL)	ML	Lab	File ID:	<u>12\G16519.</u>	
Level: (1	ow/med)	LOW		Date	Received:	<u>10/16/12</u>	
% Moisture:	not dec.			Date	Analyzed:	10/25/12	
GC Column:	<u>Rtx-624</u>	ID:	<u>.18</u> (m	m) Dilu	tion Factor:	1.00	
Soil Extrac	t Volume:		(µL)	Soil	Aliquot Volu	ure	(µL)

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
71-43-	2 Benzene	6	Z
108-88-	3 Toluene	1	Ũ
100-41-	4 Ethylbenzene	1	ΰ
1330-20-	7 Xylene (total)	5	

KEY-URS154 S52

1114/12

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-101612

Lab Name:	H2M LABS IN	<u>NC</u>	Cor	ntract:			
Lab Code:	H2M	Case No.:	KEY-URS	SAS No.	:	SDG No.:	KEY-URS154
Matrix: (soi	il/water)	WATER		Lab	Sample ID:	1210902-00	<u>7A</u>
Sample wt/vo	51: <u>5</u>	(g/mL)	ML	Lab	File ID:	<u>12\G16520.</u>	
Level: (1d	ow/med)	LOW		Dat	e Received:	10/16/12	
% Moisture:	not dec.			Dat	e Analyzed:	<u>10/25/12</u>	
GC Column:	<u>Rtx-624</u>	ID:	<u>.18</u> (mm	) Dil	ution Factor:	1.00	
Soil Extract	t Volume:		(µL)	Soi	l Aliquot Volu	me	(µL)

CAS NO.		COMPOUND	(µg/L or µg/Kg) <mark>UG/L</mark>	Q
7	1-43-2	Benzene	_1	U
10	8-88-3	Toluene	1	U
10	0-41-4	Ethylbenzene	1	U
133	0-20-7	Xylene (total)	1	U

KEY-URS154 S53

EPA SAMPLE NO.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-101612

Lab Name: H2M LAP	S INC	Contra		
Lab Code: <u>H2M</u>	Case No.:	KEY-URS SAS	No.:	SDG No.: <u>Key-URS154</u>
Matrix: (soil/wate	r) <u>WATER</u>		Lab Sample ID:	1210902-008A
Sample wt/vol:	<u>5</u> (g/mI	.) <u>ML</u>	Lab File ID:	<u>12\G16521.</u>
Level: (low/med)	TOM		Date Received:	10/16/12
% Moisture: not de	з.		Date Analyzed:	10/25/12
GC Column: Rtx-62	2 <u>4</u> ID	: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volum	э:	(µL)	Soil Aliquot Volu	ume (µL)

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

	1C		EPA SAMPLE NO.		
	SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET				
Lab Name: H2M LABS I	NC Cont	.ract:			
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS154		
Matrix: (soil/water)	WATER	Lab Sample ID:	1210642-001B		
Sample wt/vol:	<u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\N53779.D		
Level: (low/med)	LOW	Date Received:	10/10/12		
<pre>% Moisture:</pre>	Decanted: (Y/N) <u>N</u>	Date Extracted:	10/15/12		
Concentrated Extract	Volume: <u>1000</u> (µL)	Date Analyzed:	10/17/12		
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00		
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type)	CONT		
	· .	CONCEN	ITRATION UNITS:		

1. S. 1. S. 1.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	5	J
86-73-7	Fluorene	10	ີຫ
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	ប
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	ប
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	ប
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

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FORM I SV- 1

			1C		EPA SAMPLE NO.
			CS ANALYSIS		HIMW-13I
Lab Name:	H2M LABS I	NC	Con	tract:	
Lab Code: <u>P</u>	<u>H2M</u>	Case No	.: <u>KEY-URS</u>	SAS No.:	SDG No.: KEY-URS154
Matrix: (so	oil/water)	WATER		Lab Sample ID:	1210642-002B
Sample wt/	vol:	1000	(g/mL) <u>ml</u>	Lab File ID:	2\N53780.D
Level:	(low/med)	LOI	<u>N</u>	Date Received:	10/10/12
<pre>% Moisture;</pre>	:	Decanted:	(Y/N) <u>N</u>	Date Extracted:	10/15/12
Concentrate	ed Extract	Volume:	<u>1000</u> (µL)	Date Analyzed:	10/17/12
Injection V	Volume:	<u>2</u> (p	L)	Dilution Factor:	1.00
GPC Cleanur	o: (Y∕N)	N	рН:	Extraction: (Typ	e) <u>CONT</u>

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

(1) Cannot be separated from Diphenylamine

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FORM I SV- 1

OLM04.2

1C

EPA SAMPLE NO.

HIMW-14I

SEMIVOLATILE	ORGANICS	ANALYSIS	DATA	SHEET	
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Lab Name: H2M LABS INC Cont	cract:	
	<u></u>	
Lab Code: <u>H2M</u> Case No.: <u>KEY-URS</u>	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID:	1210642-003B
Sample wt/vol: <u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	<u>2\N53781.D</u>
Level: (low/med) LOW	Date Received:	10/10/12
% Moisture: Decanted:(Y/N) <u>N</u>	Date Extracted:	10/15/12
Concentrated Extract Volume: <u>1000</u> ( $\mu$ L)	Date Analyzed:	10/17/12
Injection Volume: $2 \qquad (\mu L)$	Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> pH:	Extraction: (Type)	) <u>SEPF</u>

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	19	
83-32-9	Acenaphthene	14	
86-73-7	Fluorene	7	J
85-01-8	Phenanthrene	4	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	υ
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	υ
50-32-8	Benzo(a)pyrene	10	υ
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	υ
191-24-2	Benzo(g,h,i)perylene	10	ប

(1) Cannot be separated from Diphenylamine

	10		EPA SAMPLE NO.
SEMIVOLAT	ILE ORGANICS ANALYS	IS DATA SHEET	HIMW-15D
Lab Name: H2M LABS 1	INC C	Contract:	
Lab Code: H2M	Case No.: KEY-UR	<u>S</u> SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210642-004B
Sample wt/vol:	<u>1000</u> (g/mL)	ml Lab File ID:	<u>2\N53782.D</u>
Level: (low/med)	LOW	Date Received:	10/10/12
<pre>% Moisture:</pre>	Decanted: (Y/N) N	Date Extracted:	10/15/12
Concentrated Extract	Volume: <u>1000</u> (µ)	L) Date Analyzed:	10/17/12
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type)	CONT

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32~9	Acenaphthene	10	Ū
86-73-7	Fluorene	10	<u>บ</u>
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	Ū
129-00-0	Pyrene	10	Ū
56-55-3	Benzo(a)anthracene	10	Ū
218-01-9	Chrysene	10	Ū
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	Ŭ
53-70-3	Dibenzo(a,h)anthracene	10	
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

10	EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET	HIMW-15I
Lab Name: H2M LABS INC Contract:	
Lab Code: H2M Case No.: KEY-URS SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) WATER Lab Sample ID:	1210642-005B
Sample wt/vol: <u>1000</u> (g/mL) <u>ml</u> Lab File ID:	<u>2\N53783.D</u>
Level: (low/med) LOW Date Received:	10/10/12
<pre>% Moisture: Decanted:(Y/N) N Date Extracted:</pre>	10/15/12
Concentrated Extract Volume: <u>1000</u> (µL) Date Analyzed:	<u>10/17/12</u>
Injection Volume: <u>2</u> (µL) Dilution Factor:	1.00
GPC Cleanup: (Y/N) N pH: Extraction: (Type	) <u>CONT</u>

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	4	J
86-73-7	Fluorene	10	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
85-01-8	Phenanthrene	2	Ĵ
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	Ū
129-00-0	Pyrene	10	Ū
56-55-3	Benzo (a) anthracene	10	Ū
218-01-9	Chrysene	10	Ū
205-99-2	Benzo(b)fluoranthene	10	Ū
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	Ū
53-70-3	Dibenzo(a, h) anthracene	10	Ū
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

OLM04.2

. 1C		EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA S	SHEET	HIMW-22
Lab Name: <u>H2M LABS INC</u> Contract:	L	······································
Lab Code: <u>H2M</u> Case No.: <u>KEY-URS</u> SAS N	io.: s	DG No.: KEY-URS154
Matrix: (soil/water) WATER La	ab Sample ID: <u>1</u>	.210642-006B
Sample wt/vol: <u>1000</u> (g/mL) <u>ml</u> La	ab File ID: <u>2</u>	N53784.D
Level: (low/med) LOW Da	ate Received: <u>1</u>	0/10/12
% Moisture: Decanted:(Y/N) <u>N</u> Da	ate Extracted: <u>1</u>	0/15/12
Concentrated Extract Volume: 1000 (µL) Da	ate Analyzed; <u>1</u>	0/17/12
Injection Volume: <u>2</u> (µL) Di	ilution Factor: $1$	.00
GPC Cleanup: (Y/N) N pH: Ex	traction: (Type) <u>C</u>	ONT

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

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

OLM04.2

SEMIVOLATIL	E ORGANICS ANALYSIS I	DATA SHEET	DUP 101012
Lab Name: H2M LABS INC	<u>c</u> Cont	ract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>W</u>	IATER	Lab Sample ID:	1210642-007B
Sample wt/vol: 10	000 (g/mL) <u>ml</u>	Lab File ID:	2\N53785.D
Level: (low/med)	LOW	Date Received:	10/10/12
% Moisture: D	Decanted: (Y/N) <u>N</u>	Date Extracted:	<u>10/15/12</u>
Concentrated Extract V	olume: <u>1000</u> (µL)	Date Analyzed:	<u>10/18/12</u>
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) N	рн:	Extraction: (Type)	CONT

1C

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	16	
83-32-9	Acenaphthene	4	J
86-73-7	Fluorene	10	<u> </u>
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	υ
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	σ
53-70-3	Dibenzo(a,h)anthracene	10	σ
191-24-2	Benzo(g,h,i)perylene	10	Ū

(1) Cannot be separated from Diphenylamine

10			EPA SAMPLE NO.
SEMIVOLATILE ORGANICS AN	ALYSIS DATA	SHEET	HIMW-05D
Lab Name: <u>H2M LABS INC</u>	Contract		
Lab Code: H2M Case No.: KE	Y-URS SAS	No.:	SDG No.: <u>KEY-URS154</u>
Matrix: (soil/water) <u>WATER</u>		Lab Sample ID:	1210763-001B
Sample wt/vol: 1000 (g/mL	3) <u>ml</u>	Lab File ID:	2\R12131.D
Level: (low/med) LOW		Date Received:	10/12/12
<pre>% Moisture: Decanted: (Y/N)</pre>	<u>N</u>	Date Extracted:	10/16/12
Concentrated Extract Volume: 1000	(րբ)	Date Analyzed:	10/20/12
Injection Volume: <u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> pH:		Extraction: (Type)	CONT

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	1000 500	TE D
91-57-6	2-Methylnaphthalene	120	_ <b>₽</b> ĎĴ
208-96-8	Acenaphthylene	46	
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	7	J
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	υ
206-44-0	Fluoranthene	10	ΰ
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

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FORM I SV- 1

	10		ERA SAMPLE	NO.
SEMIVOLAT	TILE ORGANICS ANALYSIS DAT	A SHEET	HIMW-05DDL	
Lab Name: <u>H2M LABS 1</u>	INC / Contrac	:t:	• • • • • • • • • • • • • • • • • • •	
Lab Code: <u>H2M</u>	Case No.: <u>KEY-URS</u> SA	S No.:	SDG NO.: KEY	-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210763-001BE	<u>)L</u>
Sample wt/vol:	1000 (g/mL) ML	Lab File ID:	2\R12246.D	
Level: (low/med)	LOW	Date Received:	10/12/12	
% Moisture:	Decanted:(Y/N) <u>N</u>	Date Extracted:	10/16/12	
Concentrated Extract	Volume: <u>1000</u> (µL)	Date Analyzed:	10/24/12	
Injection Volume:	<u>2</u> (μL)	Dilution Factor:	29.00	
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type)	CONT	
		CONCE	/ NTRATION UNITS:	
CAS NO.	сомроина	(µg/L	or µg/Kg) UG/I	Q
91-20-3	Naphthalepe	······································	1000	D
91-57-6	2-Methylnaphthalene		120	DJ
208-96-8	Acenaphthylene	/	46	DJ
83-32-9	Acenaphthene		200	U
86-73-7	Fluorene		200	U
85-01-8	Phenanthrene		200	<u> </u>
120-12-7	Anthracene	/	200	U
206-44-0	Fluoranthene		200	<u>u</u>
129-00-0	Pyrene	/	200	<u> </u>
56-55-3	Benzo(a) anthracene	/	200	<u> </u>
218-01-9	Chrysene		200	บ ช
205-99-2	Benzo (b) fluoranthene		200	<u>บ</u> บ
207-08-9	Benzo(k) fluoranthena		200	U U
	Benzo(a)pyrene		200	U
193-39-5	Indeno(1,2,3-cd)pyrene		200	<u> </u>
	Dibenzo(a,h) anthracene		200	
	Benzo(g,h,i)perylene		200	<u> </u>
	ed from Diphenylamine	┢	200	<u> </u>

(1) Cannot be separated from Diphenylamine

KEY-URS154 S64

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•		•	1C			EPA SAMPLE NO.
SF	MIVOLATI	LE ORGAN	ICS ANAL	YSIS D	DATA SHEET	HIMW-05I
Lab Name: H2	M LABS I	NC		Conti	ract:	
Lab Code: <u>H2M</u>		Case No	0.: <u>KEY-</u>	URS	SAS No.:	SDG No.: <u>KEY-URS154</u>
Matrix: (soil	/water)	WATER			Lab Sample ID:	1210763-002B
Sample wt/vol	:	1000	(g/mL)	ml	Lab File ID:	<u>2\R12132.D</u>
Level: (lo	w/med)	L	WC		Date Received:	<u>10/12/12</u>
<pre>% Moisture:</pre>		Decanted	:(Y/N)	N	Date Extracted:	10/16/12
Concentrated	Extract	Volume:	1000	(µL)	Date Analyzed:	10/20/12
Injection Vol	ume:	<u>2</u>	(µL)		Dilution Factor	:: <u>1.00</u>
GPC Cleanup:	(Y/N)	N	pH:		Extraction: (Ty	pe) <u>CONT</u>

CAS NO. COMPOUND		(µg/L or µg/Kg) <u>UG/L</u> G		
91-20-3	Naphthalene	2500 1100	ر <del>ک</del> ر	
91-57-6	2-Methylnaphthalene	400 410	FUT	
208-96-8	Acenaphthylene	180 270	PDJ	
83-32-9	Acenaphthene	12		
86-73-7	Fluorene	29		
85-01-8	Phenanthrene	16		
120-12-7	Anthracene	2	J	
206-44-0	Fluoranthene	1.0	υ	
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

11/30/12

FORM I SV- 1

OLM04.2

	1C		EPA SAMPLE NO	).
SEMIVOLA	TILE ORGANICS ANALYSIS DATA S	SHEET		
			HIMW-05IDL	
Lab Name: <u>H2M LABS</u>	INC Contract:		<u> </u>	
· · · · · · · · · · · · · · · · · · ·		<u> </u>		
Lab Code: H2M	Case No.: <u>KEY-URS</u> SAS 1	No.:	SDG No.: KEY-L	IRS154
Matrix: (soil/water)	WATER L	ab Sample ID:	1210763-002BDL	
Sample wt/vol:	<u>1000</u> (g/mL) <u>ML</u> L	ab File ID:	2 R12247.D	
Level: (low/med)	<u>LOW</u> D	ate Received:	10/12/12	
<pre>% Moisture:</pre>	Decanted: $(Y/N)$ <u>N</u> D	ate Extracted:	10/16/12	
Concentrated Extract	Volume: <u>1000</u> (µL) D	ate Analyzed: /	10/24/12	
Injection Volume:	<u>2</u> (µL) D	vilution Factor:	50.00	
GPC Cleanup: (Y/N)	N pH:E	xtraction: (Type)	CONT	
		CONCEN	TRATION UNITS:	
CAS NO.		/(µg/L	or µg/Kg) UG/L	Q
91-20-3	Naphthalene		2500	ם ב
91-57-6	2-Methylnaphthalene	/	400	 DJ
208-96-8	Acenaphthylene	/	180	DJ
83-32-9	Adenaphthene	/	500	
86-73-7	Fluorene		500	
85-01-8	Phenanthrene		500	<del>.</del>
120-12-7	Anthracene	/	500	Ū
206-44-0	Fluoranthene	/	500	U U
129-00-0	Pyrene		500	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
		· · · · ·		
20-22-4	Benzo (a) ànthracene		500	
56-55-3	Benzo(a) anthracene		500	<u> </u>
218-01-9	Chrysene		500	U
218-01-9 205-99-2	Chrysene Benzo (b) fluoranthene		500 500	U U
218-01-9 205-99-2 207-08-9	Chrysene Benzo(b) fluoranthene Benzo(k) fluoranthene	· · · · · · · · · · · · · · · · · · ·	500 500 500	U U U
218-01-9 205-99-2 207-08-9 50-32-8	Chrysene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (a) pyrene		500 500 500 500	U U U U
218-01-9 205-99-2 207-08-9	Chrysene Benzo(b) fluoranthene Benzo(k) fluoranthene		500 500 500	U U U

(1) Cannot be separated from Diphenylamine

u/30/12

KEY-URS154 S66

FORM I SV- 1

OLM04.2

SEMIVOLAT	ILE ORGANICS AN	ALYSIS DA	ra sheet	HIMW-05S
Lab Name: <u>H2M LABS I</u>	NC	Contra	ct:	
Lab Code: <u>H2M</u>	Case No.: KE	Y-URS S	AS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210763-003B
Sample wt/vol:	1000 (g/ml	۵) <u>ml</u>	Lab File ID:	2\R12133.D
Level: (low/med)	LOW		Date Received:	10/12/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	10/16/12
Concentrated Extract	Volume: <u>1000</u>	(րբ)	Date Analyzed:	10/20/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type	) <u>CONT</u>

1C

#### CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	Ŭ
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

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FORM I SV- 1

	10		EPA SAMPLE NO.
	ILE ORGANICS ANALYSIS		HIMW-20I
Lab Name: <u>H2M LABS I</u>	NC Con	tract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210763-004B
Sample wt/vol:	1000 (g/mL) ml	Lab File ID:	2\R12331.D
Level: (low/med)	LOW	Date Received:	10/12/12
% Moisture:	Decanted:(Y/N) <u>N</u>	Date Extracted:	<u>10/15/12</u>
Concentrated Extract	Volume: <u>1000</u> (µL)	Date Analyzed:	10/27/12
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type)	CONT

CAS NO. COMPOUND ( $\mu g/L$  or  $\mu g/Kg$ ) <u>UG/L</u> Q 2.500 1300 400 91-20-3 Naphthalene ₽ 91-57-6 2-Methylnaphthalene 510 ¥ Ð D 208-96-8 Acenaphthylene 260 1/70 W 83-32-9 Acenaphthene 12 86-73-7 Fluorene ЗÓ 85-01-8 Phenanthrene 29 120-12-7 Anthracene 4 Ĵ 206-44-0 Fluoranthene 10 U Pyrene 129-00-0 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 U 10 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

11/30/12

An example of the second second

FORM I SV-1

OLM04.2

	10	EPA SAMPLE NO.
SEMIV	OLATILE ORGANICS ANALYSIS DATA SHEE	T HIMW-20IDL
Lab Name: <u>H2M LA</u>	BS INC Contract:	
Lab Code: <u>H2M</u>	Case No.: <u>KEY-URS</u> SAS No.:	SDG No.: <u>KEY-URS154</u>
Matrix: (soil/wat	er) <u>WATER</u> Lab S	ample ID: <u>1210763-004BDL</u>
Sample wt/vol:	<u>1900</u> (g/mL) <u>ML</u> Lab F	tile ID: $\frac{2 R12456.D}{2}$
Level: (low/me	ed) <u>LOW</u> Date	Received: / <u>10/12/12</u>
% Moisture:	Decanted: (Y/N) <u>N</u> Date	Extracted: <u>10/15/12</u>
Concentrated Extra	act Volume: 1000 (pL) Date	Analyzed: <u>10/31/12</u>
Injection Volume:	2 (µL) Dilut	ion Factor: <u>50.00</u>
GPC Cleanup:	(/N) <u>N</u> pH: Extra	ction (Type) <u>CONT</u>
		CONCENTRATION UNITS;
CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L Q
91-20	-3 Naphthalene	2500 D
91-57		510 D
208-96		260 DJ
83-32-		500 U
86-73		500 U
85-01-		500 U
120-12	-7 Anthracene	
206-44		500 U 500 U
129-00		<u> </u>
56-55		<u> </u>
218-01-		500 U
205-99		500 U
203-33	······	500 U
50-32	A	500 U
193-39-		500 U
53-70-		500 U
191-24-	· · · · · · · · · · · · · · · · · · ·	500 U

(1) Cannot be separated from Diphenylamine

KEY-URS154 S69

FORM I SV- 1

11/20/10

10		EPA SAMPLE NO.
SEMIVOLATILE ORGANICS	ANALYSIS DATA SHEET	HIMW-20S
Lab Name: <u>H2M LABS INC</u>	Contract:	
Lab Code: <u>H2M</u> Case No.:	KEY-URS SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID:	1210763-005B
Sample wt/vol: 1000 (g,	/mL) <u>ml</u> Lab File ID:	2\R12134.D
Level: (low/med) LOW	Date Received:	<u>10/12/12</u>
<pre>% Moisture: Decanted: (Y/</pre>	$\dot{N}$ <u>N</u> Date Extracted:	10/16/12
Concentrated Extract Volume: 10	00 (µL) Date Analyzed:	10/20/12
Injection Volume: <u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> p	H: Extraction: (Type)	CONT

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COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
Naphthalene	10	U
2-Methylnaphthalene	10	U
Acenaphthylene	10	U
Acenaphthene	10	U
Fluorene	10	U
Phenanthrene	10	U
Anthracene	10	U
Fluoranthene	10	U
Pyrene	10	υ
Benzo(a) anthracene	10	U
Chrysene	10	U
Benzo(b)fluoranthene	10	ΰ
Benzo(k)fluoranthene	10	U
Benzo(a)pyrene	10	U
Indeno(1,2,3-cd)pyrene	10	U
Dibenzo(a,h)anthracene	10	U
Benzo(g,h,i)perylene	10	U
	Naphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo (a) anthracene Chrysene Benzo (b) fluoranthene Benzo (c) fluoranthene Benzo (a) pyrene Indeno (1, 2, 3-cd) pyrene Dibenzo (a, h) anthracene	Naphthalene102-Methylnaphthalene10Acenaphthylene10Acenaphthene10Fluorene10Phenanthrene10Anthracene10Fluoranthene10Pyrene10Benzo (a) anthracene10Benzo (a) pyrene10Benzo (a) pyrene10Benzo (a) pyrene10Dibenzo (a, h) anthracene10Dibenzo (a, h) anthracene10

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

10		EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DA	ATA SHEET	HIMW-23
Lab Name: <u>H2M LABS INC</u> Contra	act:	
Lab Code: <u>H2M</u> Case No.: <u>KEY-URS</u> S	BAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID:	1210763-006B
Sample wt/vol: 1000 (g/mL) ml	Lab File ID:	2\R12135.D
Level: (low/med) LOW	Date Received:	10/12/12
* Moisture: Decanted:(Y/N) <u>N</u>	Date Extracted:	10/16/12
Concentrated Extract Volume: <u>1000</u> ( $\mu$ L)	Date Analyzed:	10/21/12
Injection Volume: <u>2</u> (µL)	Dilution Factor:	<u>1.00</u>
GPC Cleanup: (Y/N) <u>N</u> pH:	Extraction: (Type)	CONT

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	1.3	
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	3	J
85-01-8	Phenanthrene	1	J
120-12-7	Anthracene	10	U
205-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	Ū
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	υ
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

10			EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANA	LYSIS DAT?	a shèrt	HIMW-24
Lab Name: H2M LABS INC	Contrac	t:	
Lab Code: H2M Case No.: KEY	-URS SAS	3 No.:	SDG No.: <u>KEY-URS154</u>
Matrix: (soil/water) <u>WATER</u>	·	Lab Sample ID:	1210763-007B
Sample wt/vol: 1000 (g/mL)	) <u>ml</u>	Lab File ID:	2\R12136.D
Level: (low/med) LOW		Date Received:	10/12/12
% Moisture: Decanted: (Y/N)	N	Date Extracted:	10/16/12
Concentrated Extract Volume: 1000	(µւ)	Date Analyzed:	10/21/12
Injection Volume: $2  (\mu L)$		Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> pH:		Extraction: (Type)	CONT

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## CONCENTRATION UNITS:

OLM04.2

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CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	2	J
91-57-6	2-Methylnaphthalene	10	Ŭ
208-96-8	Acenaphthylene	4	J
83-32-9	Acenaphthene	3	J
86-73-7	Fluorene	3	J
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	10	υ
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	1,0	U
53-70-3	Dibenzo(a, h) anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM I SV-

1

(1) Cannot be separated from Diphenylamine

KEY-URS154 S72

	10	:		EPA SAMPLE NO.
SEMIVOLA	TILE ORGANICS	ANALYSIS DAT	'A SHEET	HIMW-25
Lab Name: <u>H2M LABS</u>	INC	Contra	st:	L
Lab Code: <u>H2M</u>	Case No.:	KEY-URS SA	S No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210763-008B
Sample wt/vol:	<u>1000</u> (g	/mL) <u>ml</u>	Lab File ID:	2\R12137.D
Level: (low/med)	LOW		Date Received:	10/12/12
<pre>% Moisture:</pre>	Decanted: (Y	/n) <u>n</u>	Date Extracted:	10/16/12
Concentrated Extract	Volume: <u>10</u>	) <u>00</u> (µL)	Date Analyzed:	10/21/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> p	H:	Extraction: (Type)	CONT
			CONCEN	TRATION UNITS:
63.6 MO	COMPOUND		1	an we/we) 110/1 0

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	Ū
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	υ
206-44-0	Fluoranthene	10	υ
129-00-0	Pyrene	10	U
56-55-3	Benzo(a) anthracene	10	Ŭ
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	Ŭ
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	Ü
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

	1C		EPA SAMPLE NO.
SEMIVOLATII	LE ORGANICS ANALYSIS DATA	A SHEET	DUP 101212
Lab Name: H2M LABS IN	<u>C</u> Contrac	t:	
Lab Code: H2M	Case No.: <u>KEY-URS</u> SAS	3 No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>M</u>	NATER	Lab Sample ID:	1210763-009B
Sample wt/vol: 10	000 (g/mL) <u>ml</u>	Lab File ID:	2\R12138.D
Level: (low/med)	TOM	Date Received:	10/12/12
<pre>% Moisture: I</pre>	Decanted: (Y/N) N	Date Extracted:	10/16/12
Concentrated Extract V	olume: <u>1000</u> (µL)	Date Analyzed:	10/21/12
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) N	<u>v</u> pH:	Extraction: (Type)	CONT

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	ប
83-32-9	Acenaphthene	10	υ
86-73-7	Fluorene	1.0	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	1.0	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	1.0	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

<b>1</b> C		EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DA	ta sheet	HIMW-12D
Lab Name: <u>H2M LABS INC</u> Contra	let:	
Lab Code: H2M Case No.: KEY-URS S	AS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID:	1210902-001B
Sample wt/vol: 1000 (g/mL) ml	Lab File ID:	2\R12324.D
Level: (low/med) LOW	Date Received:	10/16/12
% Moisture: Decanted:(Y/N) N	Date Extracted:	10/19/12
Concentrated Extract Volume: 1000 (µL)	Date Analyzed:	10/27/12
Injection Volume: <u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> pH:	Extraction: (Type)	CONT

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	<u> </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	័ប
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

FORM I SV- 1

OLM04.2

10		EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS	DATA SHEET	HIMW-12I
Lab Name: <u>H2M LABS INC</u> Cont	ract:	
Lab Code: H2M Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) WATER	Lab Sample ID:	1210902-002B
Sample wt/vol: <u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\R12325.D
Level: (low/med) LOW	Date Received:	10/16/12
<pre>% Moisture: Decanted: (Y/N) N</pre>	Date Extracted:	10/19/12
Concentrated Extract Volume: 1000 (µL)	Date Analyzed:	<u>10/27/12</u>
Injection Volume: <u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> pH:	Extraction: (Type)	CONT

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CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	2	J
91-57-6	2-Methylnaphthalene	10	
208-96-8	Acenaphthylene	44	
83-32-9	Acenaphthene	47	
86-73-7	Fluorene	30	
85-01-8	Fhenanthrene	13	
120-12-7	Anthracene	2	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	10	<u> </u>
56-55-3	Benzo(a) anthracene	10	<u> </u>
218-01-9	Chrysene	10	<u>U</u>
205-99-2	Benzo(b)fluoranthene	10	
207-08-9	Benzo(k)fluoranthene	10	
50-32-8	Benzo(a)pyrene	10	<u> </u>
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenzo(a,h)anthracene	10	<u> </u>
191-24-2	Benzo(g,h,i)perylene	10	<u> </u>

(1) Cannot be separated from Diphenylamine

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FORM I SV- 1

OLM04.2

10		EPA SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYS	IS DATA SHEET	HIMW-12S
Lab Name: <u>H2M LABS INC</u>	Contract:	
Lab Code: H2M Case No.: KEY-UR	S SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID:	1210902-003B
Sample wt/vol: 1000 (g/mL)	<u>ml</u> Lab File ID:	2\R12326.D
Level: (low/med) LOW	Date Received:	10/16/12
<pre>% Moisture: Decanted:(Y/N) N</pre>	Date Extracted:	10/19/12
Concentrated Extract Volume: 1000 (p)	L) Date Analyzed:	10/27/12
Injection Volume: <u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) <u>N</u> pH:	Extraction: (Type)	CONT

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	1.0	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	Ū
86-73-7	Fluorene	10	U
65-01-8	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	Ū
193-39-5	Indeno(1,2,3-cd)pyrene	10	Ū
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

FORM I SV-1

OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08D

Lab Name: <u>H2M LABS 1</u>	NC	Contract	t:	
Lab Code: H2M	Case No.: <u>KEY-</u>	URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210902~004B
Sample wt/vol:	<u>1000</u> (g/mL)	ml	Lab File ID:	2\R12327.D
Level: (low/med)	LOW		Date Received:	10/16/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	10/19/12
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	10/27/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>м</u> рн:		Extraction: (Type)	CONT

### CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	1.0	Ū
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	Ų
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	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	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

SEMIVOLAT	TLE ORGANICS ANALYSIS	DATA SHEET	HIMW-081
Lab Name: <u>H2M LABS</u>	INC Cont	cract:	
Lab Code: <u>H2M</u>	Case No.: <u>KEY-URS</u>	SAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER	Lab Sample ID:	1210902-005B
Sample wt/vol:	<u>1000</u> (g/mL) <u>ml</u>	Lab File ID;	2\R12328.D
Level: (low/med)	LOW	Date Received:	<u>10/16/12</u>
* Moisture:	Decanted: (Y/N) <u>N</u>	Date Extracted:	10/19/12
Concentrated Extract	Volume: <u>1000</u> (µL)	Date Analyzed:	10/27/12
Injection Volume:	2 (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type)	CONT

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### CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	υ
83-32-9	Acenaphthene	10	Ū
86-73-7	Fluorene	10	Ū
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	ប
129-00-0	Pyrene	10	σ
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	υ
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	Ū
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

SEMIVOLAT	ILE ORGANICS ANAL	YSIS DATA	SHEET	HIMW-085
Lab Name: <u>H2M_LABS_1</u>	INC	Contract		L
Lab Code: <u>H2M</u>	Case No.: KEY-	URS SAS	No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210902-006B
Sample wt/vol:	<u>1000</u> (g/mL)	<u>m1</u>	Lab File ID:	2\R12329.D
Level: (low/med)	LOW		Date Received:	10/16/12
% Moisture:	Decanted: (Y/N)	N	Date Extracted:	10/19/12
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	<u>10/27/12</u>
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pH:		Extraction: (Type)	CONT

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### CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	16	
91-57-6	2-Methylnaphthalene	5	J
208-96-8	Acenaphthylene	4	J
83-32-9	Acenaphthene	10	υ
86-73-7	Fluorene	1.0	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	υ.
207-08-9	Benzo(k)fluoranthene	1.0	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

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FORM I SV- 1

	10			EPA SAMPLE NO.
SEMIVOLAT	TILE ORGANICS	ANALYSIS DA	ATA SHEET	FB-101612
Lab Name: H2M LABS	INC	Contr	act:	
Lab Code: H2M	Case No.:	KEY-URS	BAS No.:	SDG No.: KEY-URS154
Matrix: (soil/water)	WATER		Lab Sample ID:	1210902-007B
Sample wt/vol:	<u>1000</u> (g/	mL) <u>ml</u>	Lab File ID:	2\R12330.D
Level: (low/med)	LOW	·	Date Received:	10/16/12
<pre>% Moisture:</pre>	Decanted: (Y/	N) <u>N</u>	Date Extracted:	<u>10/19/12</u>
Concentrated Extract	Volume: 100	00 (µL)	Date Analyzed:	10/27/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pr	I:	Extraction: (Type)	CONT
	i.		CONCEN	TRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	Ū
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

# ATTACHMENT B

# SUPPORT DOCUMENTATION

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H2M LABS, INC.

# 40115 EXTERNAL CHAIN OF CUSTODY

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575 Broad Holiow Rd, Meiville, NY 11747-5076	iville, NY 11747-5076		) ŀ	)   		r t				   	•	
Tel: (631) 694-3040 Fax: (631) 420-8436	(631) 420-8436	<b>CLIENT:</b>	Ë	よう	Š	S S S	5		H	<b>2M SDG</b>	HZM SDG NO: KEY. UKG 154	<u> </u>
PROJECT NAMENUMBER	ROJECT NAMENUMBER NATIONAL GRID - HEMPSTERS/ 11176097	Container Incription	2028	> 028				¥ + -		pre some	Project Contact: PETER Frain Barvies Phone Number:	
SAMPLERS: (signature)/Client	Andrew Jues		XBIEX	-H₩				<u> </u>	averythes		716-38-5636	······································
DELIVERABLES:					REQU	ANALYSIS REQUESTED					N.	
TURNAROUND TIME: STY	STANDAND	V lato iatnoC	ORGANIC				Ň	NORG.				
DATE TIME MATRIX	FIELD I.D.			bCB			listeM	CN	LAB I.D. NO.	, Ö	REMARKS:	r
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Reindered by: (Signature)	Time Receiptd by	(justure)			Date		-T-	Discrepancies Betw Samnle Labels and		1. Shippedenv	tand Delivered Arbat	
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					į					COC Tape was: 1. Present on outer	COCT appower. 1. Presention outer peckage: Yo(N)	
(Signature) by: (Signature)	Date Inne Hecened by: (Sign	(entire)			Date	Time				2. Unbratian on out 2. COC record pres Y br N	2. Unbroken on outer package: Y or N J 14 2. COCC record present & complete upon sample receipt Y br N	
White Copy - Original	ORIGINAL	Ĩ	YELLOW COPY - CLIENT	λ	CLE	LN.			PINK	COPY - L	PINK COPY - LABORATORY	

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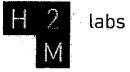
### H2M LABS INC 575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.b2mlabs.com



Client Name       KEY-URS       Date and Time Received: 10/10/2012 4:10:00 PM         Work Order Number:       1210642       RoptNo: 1       Received by Saul Weinstein         Completed by:
Completed by:       Juinov       Reviewed by:       Juinov         Completed Date:       10/10/2012       Reviewed Date:       10/16/2012 5:36:44 PM         Carrier name:       H2M Pickup       Reviewed Date:       10/16/2012 5:36:44 PM         Chain of custody present?       Yes       No       Image: No         Chain of custody signed when reilinquished and received?       Yes       No       Image: No         Chain of custody agrees with sample labels?       Yes       No       Image: No       Image: No         Chain of custody agrees with sample labels?       Yes       No       Image: No       Image: No       Image: No         Stil clear what analyses were requested?       Yes       No       Image: No
Completed Date:       10/10/2012       Reviewed Date:       10/16/2012 5:36:44 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         Chain of custody agrees with sample labels?       Yes       No         Chain of custody agrees with sample labels?       Yes       No         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         Samples in proper container/bottle?       Yes       No         Were correct preservatives used and noted?       Yes       No         Preservative added to bottles:       Intact       Broken       Leaking         Sufficient sample volume for indicated test?       Yes       No       Intact       Broken       Leaking         Were container labels complete (ID, Pres, Date)?       Yes       No       Intact       Broken       Leaking       Intact         All samples received within holding time?       Yes       No       Intact       Broken
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         Chain of custody agrees with sample labels?       Yes       No         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         Samples in proper container/bottle?       Yes       No         Were correct preservatives used and noted?       Yes       No         Preservative added to bottles:       Intact       Øres       Broken       Leaking         Sufficient sample volume for indicated test?       Yes       No       All         Were container labels complete (ID, Pres, Date)?       Yes       No       All samples received within holding time?
Chain of custody present? Yes   Chain of custody signed when relinquished and received? Yes   Chain of custody agrees with sample labels? Yes   Chain of custody agrees with sample labels? Yes   Are matrices correctly identified on Chain of custody? Yes   Are matrices correctly identified on Chain of custody? Yes   Is it clear what analyses were requested? Yes   Custody seals intact on sample bottles? Yes   Samples in proper container/bottle? Yes   Were correct preservatives used and noted? Yes   Preservative added to bottles:   Sufficient sample volume for indicated test?   Were container labels complete (iD, Pres, Date)?   Yes   No   All samples received within holding time?
Chain of custody signed when relinquished and received? Yes No   Chain of custody agrees with sample labels? Yes No   Chain of custody agrees with sample labels? Yes No   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   Custody seals intact on sample bottle? Yes No   Samples in proper container/bottle? Yes No   Were correct preservatives used and noted? Yes No   Preservative added to bottles: Intact Broken   Sufficient sample volume for indicated test? Yes No   Were container labels complete (ID, Pres, Date)? Yes No   All samples received within holding time? Yes No
Chain of custody agrees with sample labels? Yes Yes No   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   Samples in proper container/bottle? Yes No   Were correct preservatives used and noted? Yes No   Preservative added to bottles: No Na   Sufficient sample volume for indicated test? Yes No   Were container labels complete (iD, Pres, Date)? Yes No   All samples received within holding time? Yes No
Are matrices correctly identified on Chain of custody? Yes Yes No   Is it clear what analyses were requested? Yes Yes No   Custody seals intact on sample bottles? Yes Yes No   Samples in proper container/bottle? Yes Yes No   Were correct preservatives used and noted? Yes No NA   Preservative added to bottles: Intact Mo Broken Leaking   Sufficient sample volume for indicated test? Yes No No   Were container labels complete (ID, Pres, Date)? Yes No No   All samples received within holding time? Yes No No
Is it clear what analyses were requested? Yes No   Custody seals Intact on sample bottles? Yes No   Samples in proper container/bottle? Yes No   Were correct preservatives used and noted? Yes No   Preservative added to bottles: No NA   Sample Condition? Intact Broken   Sufficient sample volume for indicated test? Yes No   Were container labels complete (ID, Pres, Date)? Yes No
Custody seals Intact on sample bottles? Yes No Not Present ✓   Samples in proper container/bottle? Yes ✓ No    Were correct preservatives used and noted? Yes ✓ No NA   Preservative added to bottles: ✓ Sample Condition? Intact ✓ Broken Leaking   Sufficient sample volume for indicated test? Yes ✓ No All samples received within holding time? Yes ✓ No
Samples in proper container/bottle? Yes Yes No   Were correct preservatives used and noted? Yes Yes No   Preservative added to bottles:   Sample Condition? Intact Intact Broken   Sufficient sample volume for indicated test? Yes No   Were container labels complete (ID, Pres, Date)? Yes No
Were correct preservatives used and noted? Yes Yes No NA   Preservative added to bottles:   Sample Condition? Intact Intact Broken   Sufficient sample volume for indicated test? Yes No   Were container labels complete (ID, Pres, Date)? Yes No   All samples received within holding time? Yes No
Were correct preservatives used and noted? Yes Yes No NA   Preservative added to bottles:   Sample Condition? Intact Intact Broken   Sufficient sample volume for indicated test? Yes No   Were container labels complete (ID, Pres, Date)? Yes No   All samples received within holding time? Yes No
Preservative added to bottles:         Sample Condition?       Intact       Broken       Leaking         Sufficient sample volume for indicated test?       Yes       No         Were container labels complete (ID, Pres, Date)?       Yes       No         All samples received within holding time?       Yes       No
Sample Condition?       Intact       Intact       Broken       Leaking       Intact         Sufficient sample volume for indicated test?       Yes       No       Intact       No       Intact       Intact <td< td=""></td<>
Sufficient sample volume for indicated test?     Yes     No       Were container labels complete (ID, Pres, Date)?     Yes     No       All samples received within holding time?     Yes     No
Were container labels complete (ID, Pres, Date)?     Yes     No       All samples received within holding time?     Yes     No
All samples received within holding time? Yes 🗹 No 🗌
• •
Was an attempt made to cool the samples? Yes 🗹 No LJ NA 🗌
All samples received at a temp. of > 0° C to 6.0° C? Yes 🗹 No 🗌 NA 🗌
Response when temperature is outside of range:
Sample Temp. taken and recorded upon receipt? Yes 🗹 No 🗌 1.7 To 2.4 •
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 🗹
Airbill or Sticker? Air Bil Sticker Not Present 🗹
Case Number: SDG: SAS: KEY-URS154
Any No response should be detailed in the comments section below, if applicable.
Client Contacted? Yes No Person Contacted: John Crespo
Contact Mode: 🗍 Phone: 🗍 Fax: 🗍 Email: 🗍 In Person:
Client Instructions:
Regarding:
Comments:
The sample ID's werent written on the bottles. The time of collection was used to determine the ID's. For VOA analysis 3 sample bottles were received instead of 2 that are required. The third bottle will be used as spare volume.
CorrectiveAction:

H2M LABS.	NC		7	1011	<b>Ⅲ</b> ∼	XTE	RNA		مها 40117 EXTERNAL CHAIN OF CUSTODY	1405 1082 TODY	
575 Broad Holiow Kd, merville, NT 11/4/-50/6 Tel:(631) 694-3040 Fax:(631) 420-8436	8436	CLIEN	∣∷	VPS	K	220			H2M SDG	HZM SDG NO: MESISY	
PROJECT NAME/NUMBER	/	, 	न्न		2,5			NOTES: VOKE 1458	28 CAN	Project Contact:	
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Mike Bount	MAN AHAN	<b>1</b> 7	لک		1-11						
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Reprised by (Signal of Control of	10:00 5:00	d by (Signature)	P		p(Dell			Sample Labels and COC Record? Y or N		1. Support of rank Derived Around 2. Ambient or childed, Temp. 3.60 2. Received in good condition: Y or N 3.60 4. Brownershawer + V or N 3.80	
Reiffquished by: (Signature)	Date Time Received by	Received by: (Signature)	Ļ			Time			COC TROP WEE		
Relinquished by: (Signature) D	Date Time Received b	Received by: (Signature)	e e		ate C				1. Present on oute     1. Present on oute     2. Unbroken on ou     3. COC record pre     Y or N	<ol> <li>Present on outer package: Y of N / 2. Unbroken on outer package: Y or N</li> <li>3. COC record present &amp; complete upon sample receipt: Y or N</li> </ol>	• •
WHITE COPY - ORIGINAL		¥	YELLOW COPY	b	0 - -	- CLIENT			PINK COPY - LABORATORY	ABORATORY	N).

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



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Client Name KEY-URS		Date and	Time Received:	10/12/2012 3:00:00 PM
Nork Order Number: 1210763 RcptNo: 1		Received	t by Saul Weinst	ein
Completed by: Renon Silinde		Reviewed by:	Jemps d	and the second s
Completed Date: <u>10/12/2012 5:10:42 PM</u>	I	Reviewed Date:	10/16/2012	<u>6:18:23 PM</u>
Carrier name: <u>H2M Pickup</u>				
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Are matrices correctly identified on Chain of custody? s it clear what analyses were requested?	Yes Yes Yes Yes	2 No 🗌 2 No 🗌 2 No 🗌		
Custody seals intact on sample bottles? Samples in proper container/bottle?	Yes L Yes 🛽		Not Present	
Vere correct preservatives used and noted? Preservative added to bottles:	Yes b Yes b		NA	
Sample Condition? Sufficient sample volume for indicated test? Vere container labels complete (ID, Pres, Date)? Il samples received within holding time?	Intact Yes Yes Yes	2 No 🗌 2 No 🗍	Leaking	
Vas an attempt made to cool the samples? Il samples received at a temp. of > 0° C to 6.0° C? tesponse when temperature is outside of range:	Yes 🗹 Yes 🗹		NA NA	
ample Temp. taken and recorded upon receipt? Vater - Were bubbles absent in VOC vials? Vater - Was there Chlorine Present? Vater - pH acceptable upon receipt?	Yes Yes Yes Yes	No 🗌 No 🗍	NA	
re Samples considered acceptable?	Yes 🛛	No 🗍		
Irbill or Sticker? Irbill No:	Yes L Air Bil [	Sticker	Not Present	
ase Number: SDG: KEY-URS154		SAS:		
ny No response should be detailed in the comments section $t = $	elow, if applica	ble. 		
Contact Mode:  Phone:  Fax: Client Instructions:	Contacted:	In Person:		
Date Contacted: Contacte Regarding: Comments: H2M did not receive VOA vials for HIMW-25	ed By:			
CorrectiveAction:				
	<del></del>			

38228 EXTERNAL CHAIN OF CUSTODY	H2M SDG NO: KEN-URS 15if	NOTES: Project Contact Pertran banky Join Sundyvist Phone Number:	PIS/Quote #				LAB I.D. NO. REMARKS:	12-10902 - 001	1 - 00 - 1	- 003	- œ4	- 005	4 - 006		~ eo₿	1 - PO -		SI:	Between <u>Serrates were</u> 1. Stripped <u>at Hand Delivered Arbitite</u> 2. Ambient of Filling Temperature 70 N 3:70 C	4. Property preserved: (Y gr N	COCTADO MAR. 1. Present on outer package: Y or (V)	2 Untroteen on outer pectage: Y of M 3. COC record present & complete upon sample receipt:	PINK COPY - LABORATORY
NAL CI		2				INORG.	CN Metal	1 10											Discrepancies Between Sample Labels and COC Record? Yor N	Explain:		in olaroa, en r	
XTER	حماق				DUESTED	-																	- CLIENT
228 E	JKS C				ANALYSIS REQUESTED		bCB beek													Date			Ъ - СI
1	1	202 209		<u>76</u>	ANA	ORGANIC		XX	XX	XX	X X	XIXI	XX	.,]	×	X X			460				YELLOW COPY
	<b>CLIENT:</b>	Container oription	elqma8	↑		/ into atno3		4	4	4	4	<u></u> ۴	4		3	4	1	5				(Signatura)	YEL YEL
INC.	36	ps teal	- Dascoli, ve				FIELD I.D.	D	1aI	S	0		S					r C OK - 1/00	Time Received by (Signa	Time Received by: (5lg		Time Received by: (Sig	-
H2M LABS, IN 575 Broad Hollow Rd, Melville, NY 11747-5076	<b>Tel:</b> (631) 694-3040 Fax: (631) 420-8436	IECT NAMENUMBER National Grid - Hempsteal 11176098.0004	MPLERS: (stynatura) Cleart Wefan Danel. /Mefa			Studend		HIMW-I~D		HIMW-12S	HMW-OSD	H-1MW-08T	HIMW-08S		TB101612	FBIOLGIZ			K	Date			WHITE COPY - ORIGINAL
<b>ZM</b> L bad Hollow Ru	31) 694-30401	PROJECT NAMENUMBER National Grid 11176098.0004	SAMPLERS: (signature)/Clioni	DELIVERABLES:		TURNAROUND TIME:	TIME MATRIX	11 40 GW	1357GW	15112 1590 GW	915 (W	1040 4 W	1148 GW		1230 Hr.O	12 1120			ad by (Signature)	Relinquished by: (Signature)		Keinquisted by: (Signature)	WHITE COP
575 Br	<b>Tel:</b> (6:		SAMPL	DELIVE		TURNA	DATE	ref Shar	14/21/01	12/2/12	R/10/ 315	Phyliz 1	10/10/01		TIP IL	" 9/10/2 12 13	Deriver	11/01	Service Service	Reinquishe		Kolinquish	-

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H 2 ta M	abs		TEL: (631) 694-3040 F/	Broad Meivi IX: (6		۲ Sample R	EY-U eccipt	RS 15" Checkli	4 ist
Client Name KEY-L	JRS	-			Date a	nd Time Received	: 10/16/20	)12 4:10:00 PM	
Work Order Number:	1210902	Rcpt	No: 1		Receiv	ed by <b>MelissaW</b> a	atson	X	
Completed by:	M- M	10/17/2012	·		vlewed by: viewed Date:	10/19/20	12 1:39:52		
•	Dialama							<u>- 111</u>	
Carrier name: <u>H2M I</u> Chain of custody press Chain of custody signe Chain of custody agree Are matrices correctly Is it clear what analyse Custody seals intact o Samples in proper corr Were correct preserva Preservative added to Sample Condition? Sufficient sample volue Were container labels All samples received a Response when tempo	ent? ed when reling es with sample identified on ( as were reque: n sample bottl tainer/bottle? tives used and bottles: me for indicate complete (ID, within holding to to cool the sa t a temp. of > erature is outs	e labels? Chain of custody? ated? les? d noted? ed test? Pres, Date)? ime? ime? o° C to 6.0° C? ide of range:	Yes Yes Yes Yes Yes Intact Yes Yes Yes Yes Yes		No    No    No	Not Present NA Leaking NA NA			
Sample Temp. taken a Water - Were bubbles			Yes Yes	$\mathbf{V}$	No 🗆	1.8 To No Vials	3.7 •		
Water - Was there Chi			Yes	$\square$		NA			• •
Water - pH acceptable	upon receipt?	?	Yes		No 🗔	No Water			
Are Samples consider	ed acceptable	?	Yes	$\checkmark$	No 💭				
Custody Seals present Airbill or Sticker?	?		Yes Air Bil		No 🗹 Sticker 🗌	Not Present			
Airbill No:			Alf Di			NOT Present			
Case Number: Any No response shou	id he detailed	SDG: KEY-URS154			SAS:				
Client Contacted? Contact Mode: Client Instructions: Date Contacted: Regarding: Comments:	Yes Yes Phone:	₩ No	Person Contacted:			======			S17
CorrectiveAction:				_					54
				<b></b>					KEY-URS154
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					• • •				KEY

Page 1 of 1
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labs

575 Broad Hollow Road Melville, NY 11747 tel 631,694.3040 fax 631,420,8436

### SDG NARRATIVE FOR VOLATILE ORGANICS SAMPLES RECEIVED: 10/10/12 – 10/16/12 SDG #: KEY-URS154

For Sample(s):

TB 101012	HIMW-24	HIMW-08D
HIMW-05D	HIMW-25	HIMW-08I
HIMW-05I	DUP 101212	HIMW-08S
HIMW-05S	TB 101212	FB-101612
HIMW-20I	HIMW-12D	TB-101612
HIMW-20S	HIMW-12I	
HIMW-23	HIMW-12S	
	HIMW-05D HIMW-05I HIMW-05S HIMW-20I HIMW-20S	HIMW-05DHIMW-25HIMW-05IDUP 101212HIMW-05STB 101212HIMW-20IHIMW-12DHIMW-20SHIMW-12I

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. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

CCC and SPCC requirements were met in all calibrations. Average response factors or linear regression were used as appropriate for the initial calibration.

In the continuous calibration, several targeted analytes exceeded 15% for %D. The results for these compounds are flagged with the qualifier "Z" on the report to indicate that they are regarded estimated.

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: November 9, 2012 Date Revised: December 5, 2012

Joann M. Slavin Senior Vice President



575 Broad Hollow Road

tel 631.694.3040 fax 631.420.8436

### SDG NARRATIVE FOR SEMIVOLATILE ORGANICS SAMPLES RECEIVED: 10/10/12, 10/12/12 & 10/16/12 SDG #: KEY-URS154

Page 1 of 2

For Sample(s):

DUP 101012	HIMW-23	HIMW-12S
HIMW-05D	HIMW-24	HIMW-08D
HIMW-05I	HIMW-25	HIMW-08I
HIMW-05S	DUP 101212	HIMW-08S
HIMW-20I	HIMW-12D	FB-101612
HIMW-20S	HIMW-12I	
	HIMW-05D HIMW-05I HIMW-05S HIMW-20I	HIMW-05D HIMW-24 HIMW-05I HIMW-25 HIMW-05S DUP 101212 HIMW-20I HIMW-12D

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

All O. 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). Four lab fortified blanks were analyzed, and results indicate good method efficiency. The matrix spike had to be re-extracted, because no spike had been added. Even though the reextract was performed outside holding time, the original is not reported, because recoveries could not be evaluated. The MS/MSD RPD for the recoveries of acenaphthene exceeded the O. C. limit.

Three samples were reanalyzed at dilutions to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported. No surrogate recoveries are reported for two dilutions, because the surrogates were diluted out.

The recovery for 4-terphenyl-d14 was below the Q. C. limit in sample HIMW-15I.

In the calibrations, CCC and SPCC requirements were met. In the initial calibrations average response factors were employed as applicable, and linear regression functions were used for RSDs above 15%.

In the continuous calibration on 10/17/12 several targeted analytes exceeded 15% for %D. The results for these compounds are flagged with the qualifier "Z" on the report to indicate that they are regarded estimated. This applies to LFB-36906, but none of the samples analyzed on that day contained positives for these analytes.



575 Broad Hollow Road to Melville, NY 11747 fa

tel 631.694.3040 fax 631.420.8436

### SDG NARRATIVE FOR SEMIVOLATILE ORGANICS SAMPLES RECEIVED: 10/10/12, 10/12/12 & 10/16/12 SDG #: KEY-URS154

Page 2 of 2

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: November 10, 2012

KEY-URS154 S25

Ursula Middel Technical Manager

# APPENDIX A DATA USABILITY SUMMARY REPORT FOURTH QUARTER 2012

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

Analyses Performed by: H2M LABS, INC.

**Prepared For:** 

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

Prepared by:

URS CORPORATION 77 GOODELL STREET BUFFALO, NY 14203

FEBRUARY 2013

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

# TABLES

(Following Text)

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

## APPENDICES

(Following Tables)

Attachment A Validated Form 1's

Attachment B Support Documentation

### I. INTRODUCTION

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

Discussed in this DUSR are the analytical data for twenty-five (25) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and three (3) trip blanks collected by URS personnel from December 18-28, 2012. The samples were collected as part of the 2012 fourth quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

### II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

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

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

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

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

The limited data validation included a review of: completeness of all required deliverables; holding times; quality control (QC) results (i.e., instrument tunes, calibration standards, 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 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 (COC), 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/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper COC. All samples were analyzed within the required holding times.

### V. NON-CONFORMANCES

For PAH analyses, the percent difference (%D) between the initial calibration (ICAL) average relative response factor (RRF) and the RRF in the continuing calibration (CCAL) standard was greater than 20.0% for benzo(b)fluoranthene. The non-detect benzo(b)fluoranthene results for the following samples were qualified 'UJ': HIMW-03D, -03I, -03S, -05D, -05I, -05S, -12I, -12S, and FB122812.

Documentation supporting the qualification of data (i.e., Forms 5 and 7) is presented in Attachment B.

# VI. SAMPLE RESULTS AND REPORTING

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

Field duplicates were collected from monitoring well locations HIMW-20S (DUP-122012) and HIMW-25 (DUP-122112), which exhibited acceptable field and analytical precision [i.e., <20 relative percent difference (RPD)].

# VII. SUMMARY

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

**Prepared By:** 

Peter R. Fairbanks, Senior Chemist

Date: 2/11/13

**Reviewed By:** 

George E. Kisluk, Senior Chemist

Date: 2-11-13

# 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.

J.11175065.00000 WORD DRAFT Quarterly& Annual Data Reports 2012 Annual Report Appendix A - DUSR Appendix A - DUSR 1th Qrt 2012 data

# VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID		HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-0051	
Sample ID			HIMW-03D Groundwater	HIMW-03I	HIMW-03S Groundwater	HIMW-05D Groundwater	HIMW-051 Groundwater
Matrix				Groundwater			
Depth Interval (f	t)	-		A			1
Date Sampled	1.00		12/27/12	12/28/12	12/27/12	12/28/12	12/28/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
3enzene	UG/L	•	10	10	1 U	7	4
Ethylbenzene	UG/L	1	1 U	1 U	1 U	1 U.	2
Toluene	UG/L		10	1 U	10	U.8.0	1
Kylene (total)	UG/L		1.0	1.0	1.0	72	120
Total BTEX	UĠ/L	100	ND	ND	ND	79.8	127
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L		10 U	10 U	10 U	140 JD	370 JD
Acenaphthene	UG/L		10 U	10 U	10 U	2 J	10
Acenaphthylene	UG/L	1.2.1	10 U	10 U	10 U	38	190 JD
Anthracene	UG/L	1.7	10 U	10 U	10 U	10 U	2 J
3enzo(a)anthracene	UG/L		10 U	10 U	10 U	10 U	10 U
3enzo(a)pyrene	UG/L	1	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	1	10.UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(g,h,i)perylene	UG/L	7	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	1.	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
luoranthene	UG/L		10 U	10 U	10 U	10 U	10 U
luorene	UG/L	15	10 U	10 U	10 U	6 J	23
ndeno(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	1,100 D	1,900 D
Phenanthrene	UG/L		10 U	10 U	10 U	10 U	12
<sup>2</sup> yrene	UG/L	-	10 U	10 U	10 U	10 Ú	10 U
fotal Polynuclear Aromatic Tydrocarbons	UG/L	100	ND	ND	ND	1.286	2,507

\*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 Griteria

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

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

D - Result reported from a secondary dilution analysis

Made By\_PRF 01/29/13\_, Checked By\_GEK 02/05/13\_

# VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID	1.11		HIMW-005S	HIMW-008D HIMW-8D	HIMW-0081 HIMW-81 Groundwater	HIMW-008S HIMW-8S Groundwater	HIMW-012D HIMW-12D Groundwater
Sample ID	-		HIMW-05S				
Matrix			Groundwater	Groundwater			
Depth Interval (f			· · · · · · · · · · · · · · · · · · ·	1	3		
Date Sampled			12/28/12	12/21/12	12/21/12	12/21/12	12/20/12
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	+	10	10	1 U	8	1 U
Ethylbenzene	UG/L		10	10	10	1.0	10
Toluene	UG/L	· ·	10	10	1.0	10	1 U
Xylene (total)	UGA		10	1 Ų	1 U	5	10
Total BTEX	UG/L	100	ND	ND	ND	13	ND
Semivolatile Organic Compounds		1.1.1.1					
2-Methylnaphthalene	UG/L	-21	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L		10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	÷.,	10 U	10 U	10 U	1 J	10 U
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
Senzo(a)pyrene Senzo(b)fluoranthene	UG/L	11.000	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	1	10 UJ	10 U	10 0	10 U	10 U
Benzo(k)fluoranthene	UG/L		10 Ü	10 U	10 U	10 U	10 U
Chrysene	UG/L	1000	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
luoranthene	UG/L	-	10 U	10.0	10 U	10 U	10 U
luorene	UG/L	-	10 U	10 U	10 U	10 U	10 U
ndeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
laphthalene	UG/L		10 U.	10 U	10 U	10 U	10 U
henanthrene	UG/L		10 U.	10 U	10 U	10 U	10 U
yrene	UG/L	1	10 U	10 U	10 U	10 U	10 U
	UG/L	121	10 U	10 U	10 U	10 U	10 U
otal Polynuclear Aromatic lydrocarbons	UG/L	100	ND	ND	ND	1.	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 - U - 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.

Made By\_PRF 01/29/13\_ Checked By\_GER 02/05/13\_

# VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-012J	HIMW-012S	HIMW-013D	HIMW-013I	HIMW-013S
Sample ID			HIMW-12I	HIMW-12S	HIMW-13D	HIMW-13I	HIMW-13S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (fi	t)		1.00		· · · ·		100 miles 100
Date Sampled		-	12/27/12	12/27/12	12/19/12	12/19/12	12/19/12
Parameter	Units	Criteria*					
Volatile Organic Compounds		-					
Benzene	UG/L	1.1	50	10	2	6	1 U
Ethylbenzene	UG/L	1	10	10	10	1	10
Toluene	UG/L		10	٦U	1 U	1 U	10
Xylene (total)	UG/L		3	10	1	1 U	10
Total BTEX	UG/L	100	53	ND	3	7	ND
Semivolatile Organic Compounds		1.1					
2-Methylnaphthalene	ÚG/L		10 U				
Acenaphthene	UG/L	1.00	39	10 U	6 J	10 U	10 U
Acenaphthylene	UG/L	1.200	36	10 U	12	5 J	10 U
Anthracene	UG/L		11	10 U.	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	1	10 U	10 U	10 U.	10 U	10 U
Benzo(a)pyrene	UGIL		10 U				
Benzo(b)fluoranthene	UG/L	1.2 1	10 UJ	10 UJ	10 U	10 U	10 U
Benzo(g.h.i)perylene	UG/L	1.3	10 U				
Benzo(k)fluoranthene	UG/L	10	10 U				
Chrysene	UG/L	12-1	10 U				
Dibenz(a,h)anthracene	UG/L		10 U				
Fluoranthene	UG/L	174	10 U				
	UG/L	2	25	10 U	10 U	1.1	10 U
ndeno(1,2,3-cd)pyrene	UG/L	12. L	10 U				
Naphthalene	UG/L		1 J	5 J	10 U	10 U	10 U
Phenanthrene	UG/L	1.1	11	10 U	10 U	2 J	10 U
Pyrene	UG/L	1.00	10 U				
Fotal Polynuclear Aromatic Hydrocarbons	UG/L	100		5	18	8	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 -1 - 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

Made By\_PRF 01/29/13\_ Checked By\_GEK 02/05/13\_

# VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-014D	HIMW-014I	HIMW-015D	HIMW-0151	HIMW-020I HIMW-20I Groundwater
Sample ID Matrix		HIMW-14D	HIMW-14I	HIMW-15D	HIMW-15I		
		Groundwater	Groundwater	Groundwater	Groundwater		
Depth Interval (f	t)		<b>A</b>				
Date Sampled			12/18/12	12/18/12	12/18/12	12/18/12	12/20/12
Parameter	Units	Criteria*					14- X
Volatile Organic Compounds							- 1
Benzene	UG/L	1.1	1 U	34	10	10	7
Ethylbenzene	UG/L		1 Ų	4	10	10	1
Toluene	UG/L		11	10	1.0	1 U.	2
Kylene (total)	UG/L		ΊŲ	4	10	2	120
Total BTEX	UĠiL	100	ND	42	ND	12	(130
Semivolatile Organic Compounds	1		10.100				
2-Methylnaphthalene	UG/L	1 Same	10 U	10 U	10 U	10 U	130 DJ
Acenaphthene	UG/L	-	10 U	16	10 U	5 J	8 J
Acenaphthylene	UG/L		10 U	22	10 U	11	150 DJ
Anthracene	UG/L		10 U	1 J	10 U	10 U	2 J
Benzo(a)anthracene	UG/L		10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L		10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	0	10 U	10 U	10 U	10 U	10 U
Benzo(g.h.i)perylene	UG/L	1.1	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	Ť	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	1	10 U	10 Ų	10 U	10 U	10 U
Fluoranthene	UG/L	1	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L		10 U	7 J	10 U	10 U	16
ndeno(1.2.3-cd)pyrene	UG/L		10 U	10,0	10 U	10 U	10 U
Naphthalene	UG/L		10 U	10 U	10 U	10 U	950 D
Phenanthrene	UGIL		10 U	6 J	10 U	zJ	10
Pyrene	UG/L		10.0	11	10 U	10 U	10 U
Total Polynuclear Aromatic Tydrocarbons	UG/L	100	ND	53	ND	18	1,266

\*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

 ${\sf U}$  . Not detected above the reported quantitation limit.  ${\sf J}$  - 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

Made By\_PRF 01/29/13\_, Checked By\_GEK 02/05/13\_

# VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID		HIMW-020S	HIMW-020S	HIMW-022	HIMW-023	HIMW-024	
Sample ID			DUP122012	HIMW-20S	HIMW-22	HIMW-23	HIMW-24
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Depth Interval (f	t)		1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		A		8
Date Sampled			12/20/12	12/20/12	12/19/12	12/19/12	12/20/12
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Benzene	UG/L	1.00	īυ	10	14	2	16
Ethylbenzene	UG/L	1.5	10	1 U	1 U	1 U	15
Toluene	UG/L	i-ter	10	1.0	10	1 U	1 Ú
Xylene (total)	UG/L		10	10	12	1	3
Total BTEX	UG/L	100	ND	ND	26	3	34
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L		10 U	10 <u>U</u>	10 U	10 U	10 U
Acenaphthene	UG/L	2	10 U	10 U	1.1	10 U	2 J
Acenaphthylene	UG/L		10 U	10 U	13	4 J	4 J
Anthracene	UG/L	2	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	27	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	1	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	1.42	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		10.0	10 U	10 U	10 U	10 U
Fluorene	UG/L		10 U	10 U	10 U	10 U	4 J
ndeno(1,2,3-cd)pyrene	UGAL	1	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	18	10 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	2.5	10 U	10 U	2 J	10 U	3 J
Pyrene	UG/L		10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	16	4	13

\*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

Made By\_PRF 01/29/13\_ Checked By\_GEK 02/05/13\_

# VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID	HIMW-025	HIMW-025			
Sample ID			DUP122112	HIMW-25 Groundwater - 12/21/12	
Matrix			Groundwater		
Depth Interval (f	t)		(		
Date Sampled			12/21/12		
Parameter	Units	Criteria*	Field Duplicate (1-1)		
Volatile Organic Compounds		1			
Benzene	UG/L	-	2	2	
Ethylbenzene	UG/L	2.75	3	3	
Toluene	UG/L	Peter's	8	8	
Xylene (total)	UG/L	- 2 - 1	200	210	
Total BTEX	UG/L	100	213	223	
Semivolatile Organic Compounds		1			
2-Methylnaphthalene	UG/L	E É	10.0	10 U	
Acenaphthene	UG/L	7.4	10.0	10 U	
Acenaphthylene	UG/L	1.1	10 U	10 U	
Anthracene	UG/L		10 U	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	ÚG/L	1.6.6	10 U	10 U	
Chrysene	UG/L		10 U	10 U	
Dibenz(a,h)anthracene	UGAL	22	10 U	10 U.	
Fluoranthene	UG/L	2	10 U	10 U	
Fluorene	UG/L		10 U	10 U	
ndeno(1,2,3-cd)pyrene	UG/L	12	10 U	10 U	
Naphthalene	UGIL	7	10 U	10 U	
Phenanthrene	UG/L	h *	10 U	10 U	
Pyrene	UG/L	-	10 U	10 U	
Total Polynuclear Aromatic	UG/L	100	ND	ND	

Hydrocarbons UGn.

\*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 Critena

U - Not detected above the reported quantitation limit.  ${\sf J}$  - 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.

Made By\_PRF 01/29/13\_ Checked By\_GEK 02/05/13\_

# VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			FIELDQC	FIELDQC	FIELDQC	FIELDQC	
Sample ID			TB-121912	TB-122112	FB-122812	TB-122812 Water Quality	
Matrix			Water Quality - 12/19/12	Water Quality	Water Quality		
Depth Interval (f	t)						
Date Sampled				12/21/12	12/28/12	12/28/12	
Parameter	Units	Criteria*	Thp Blank (1-1)	Trip Blank (1-1)	Field Blank (1-1)	Top Blank (1-1)	
Volatile Organic Compounds						-	
Benzene	UG/L	1.0	10	10	10	10	
Ethylbenzene	UG/L	12.	10	1.0	10	10	
Toluene	UG/L	1.0	10	10	1.0	10	
Kylene (total)	UG/L		10	1.0	1 U	1 U	
Total BTEX	UĠ/L	100	ND	ND	ND	ND	
Semivolatile Organic Compounds	-						
2-Methylnaphthalene	UG/L	-	NA	NA	10 U	NA	
Acenaphthene	UG/L	1	NA	NA	10 U	NA	
Acenaphthylene	UG/L		NA	NA	10 U	NA	
Anthracene	UG/L		NA	NA	10 U	NA	
Benzo(a)anthracene	UG/L	1	NA	NA	10 U	NA	
Benzo(a)pyrene	UG/L	1.22	NA	NA	10 U	NA	
Benzo(b)fluoranthene	UG/L		NA	NA	10 UJ	NA	
Benzo(g,h,i)perylene	UG/L	1	NA	NA	10 U	NA	
Benzo(k)fluoranthene	UG/L	EX-1	NA	NA	10 U	NA	
Chrysene	UG/L	1	NA	NA	10 U.	NA	
Dibenz(a,h)anthracene	UG/L		NA	NA	10 U.	NA	
Fluoranthene	UG/L		NA	NA	10 U	NA	
Fluorene	UG/L	1.1	NA	NA	10 U	NA	
ndeno(1,2,3-cd)pyrene	UG/L	-	NA	NA	10 U	NA	
Naphthalene	UG/L		NA	NA	10 U	NA	
Phenanthrene	UG/L	2000	NA	NA	10 U	NA	
Pyrene	UG/L		NA	NA	10 U	NA	
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	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

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

NA The sample was not analyzed for this parameter

Made By\_PRF 01/29/13\_ Checked By\_GEK 02/05/13\_

Detection Limits shown are PQL

# ATTACHMENT A

# VALIDATED FORM 1'S

### 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.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

HIMW-03S

Lab Name: H2M LABS	Contra	act:	
Lab Code: <u>H2M</u>	Case No.: <u>KEY-URS</u> SAS	No.;	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-003A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	A\A77808.D
Level: (low/med)	LOW	Date Received:	12/28/12
<pre>% Moisture: not dec.</pre>		Date Analyzed:	01/03/13
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (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	î U
1330-20-7	Xylene (total)	1 1	U

KEY-URS157 S20

1A VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

HIMW-031

Lab Name: H2M LABS	INC Contra	ct:	
Lab Code: H2M	Case No.: <u>KEY-URS</u> SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-005A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	A\A77806.D
Level: (low/med)	TOM	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/03/13
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(LT)	Soil Aliquot Volu	ume (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 1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-03D

211

Lab Name: H2M LABS	Contra	ict:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-004A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	A\A77807.D
Level: (low/med)	TOM	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/03/13
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	
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

EPA SAMPLE NO.

HIMW-05S

And the state of the second			
Lab Name: H2M LABS	INC Contra	ict:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-006A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	A\A77805.D
Level: (low/med)	TOM	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/03/13
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(pL)	Soil Aliquot Vol	ume (µL)

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

KEY-URS157 S23

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-051

Lab Name: H2M LABS	INC		
and the second s	INC Contra	ict:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-007A
Sample wt/vol: 5	(g/mL) <u>ML</u>	Lab File ID:	A\A77802.D
Level: (low/med)	TOM	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/03/13
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	0
71-43-2	Benzene		-
108-88-3	Toluene	4	
100-41-4	Ethylbenzene	1	_
1330-20-7	Xylene (total)	2	
		120	

REVISED KV 30-Jan-13

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VOLATILE ORGANICS ANALYSIS DATA SHEET

	HIMW-05D
Lab Name: H2M LABS INC Contr	act:
Lab Code: H2M Case No.: KEY-URS SA	5 No.: SDG No.: KEY-URS157
Matrix: (soil/water) WATER	Lab Sample ID: 1212D60-008A
Sample wt/vol: 5 (g/mL) ML	Lab File ID: <u>A\A77801.D</u>
Level: (low/med) LOW	Date Received: 12/28/12
% Moisture: not dec.	Date Analyzed: 01/03/13
GC Column: <u>Rtx-624</u> ID: <u>.18</u> (mm)	Dilution Factor: 1.00
Soil Extract Volume: (µL)	Soil Aliquot Volume (µL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	7	
108-88-3	Toluene	0.8	T.
100-41-4	Ethylbenzene	1	tt
1330-20-7	Xylene (total)	72	0

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EPA SAMPLE NO.

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LA	ABS INC	Contra	act:	
Lab Code: H2M	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/wat	er) WATER		Lab Sample ID:	1212B46-003A
Sample wt/vol:	<u>5</u> (g/m	т) <del>мг</del>	Lab File ID:	12\J8818.D
Level: (low/med	) TOM		Date Received:	12/21/12
% Moisture: not d	ec.		Date Analyzed:	12/28/12
GC Column: Rtx-	<u>624</u> I	D: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volu	me:	(µL)	Soil Aliquot Vol	ume (µL)

CAS NO. COMPOUND		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	8	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	5	

KEY-URS156 S37

EPA SAMPLE NO.

HIMW-BI

Lab Name: H2	M LABS	INC	Contra	ct:	
Lab Code: H2	м	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil	/water)	WATER		Lab Sample ID:	1212B46-002A
Sample wt/vol	: 5	(g/mL)	ML	Lab File ID:	12\J8817.D
Level: (low	/med)	TOM		Date Received:	12/21/12
% Moisture: n	ot dec.			Date Analyzed:	12/28/12
GC Column:	Rtx-624	ID;	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract	Volume:		(pL)	Soil Aliquot Volu	ume (Jul)

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

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-BD

Lab Name:	H2M LABS	INC	Contra	ict:	
Lab Code: 1	H2M	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soi	il/water)	WATER		Lab Sample ID:	1212B46-001A
Sample wt/vo	51: <u>5</u>	(g/mL)	ML	Lab File ID:	12\J8816.D
Level: (lo	ow/med)	LOW		Date Received:	12/21/12
% Moisture:	not dec.			Date Analyzed:	12/28/12
GC Column:	Rtx-624	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract	t Volume:		(µL)	Soil Aliquot Volu	ume (µL)

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

KEY-URS156 S35

EPA SAMPLE NO.

HIMW-12S

......

Lab Name:	H2M LABS	INC	Contra	at:	
Lab Code:	H2M	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (so	oil/water)	WATER		Lab Sample ID:	1212D60-001A
Sample wt/w	vol: <u>5</u>	(g/mL)	ML	Lab File ID:	A\A77810.D
Level: ()	Low/med)	TOM		Date Received:	12/28/12
<pre>% Moisture:</pre>	not dec.			Date Analyzed:	01/03/13
GC Column:	Rtx-624	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extrac	ct Volume:		(µL)	Soil Aliquot Volu	ume (µL)

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

KEY-URS157 S18

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-121

Lab Name: H2M LABS 1	CONTRA	et:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-002A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	A\A77809.D
Level: (low/med)	LOW	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/03/13
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	me (pL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	0
71-43-2	Benzene	50	
108-88-3	Toluene	1	TI
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	3	0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS 1	NC Contra	iet:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-004A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8819.D
Level: (low/med)	TOM	Date Received:	12/21/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

CAS NO.	COMPOUND	(pg/L or pg/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-URS156 S38

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS	INC Contra	et:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-007A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8809.D
Level: (low/med)	LOW	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(pL)	Soil Aliquot Volu	шө (µL)

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	2
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

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-131

Lab Name: H2M LABS 1	Contra	ct:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-006A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8810.D
Level: (low/med)	LOW	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	6	
108-88-3	Toluene	1	U
100-41-4	Bthylbenzene	1	
1330-20-7	Xylene (total)	1	U

KEY-URS156 S30

FORM I VOA - 1

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS	INC Contra	ct:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-005A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8811.D
Level: (low/med)	TOM	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (µL)

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

KEY-URS156 S29

EPA SAMPLE NO.

HIMW-14I

Lab Name: H	2M LABS	INC	Contra	act:	
Lab Code: H	2M	Case No.:	KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soi:	l/water)	WATER		Lab Sample ID:	1212A52-003A
Sample wt/vo	1: <u>5</u>	(g/mL)	ML	Lab File ID:	12\J8813.D
Level: (lo	w/med)	LOW		Date Received:	12/19/12
% Moisture: 1	not dec.			Date Analyzed:	12/28/12
GC Column:	Rtx-624	ID:	<u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract	Volume:		(µL)	Soil Aliquot Volu	ume (µL)

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

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS	ENC Contra	act:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-004A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8812.D
Level: (low/med)	LOW	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (pL)

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

KEY-URS156 S28

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS	INC Contr	act:	
Lab Code: H2M	Case No.: KEY-URS SAS	8 No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-001A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8815.D
Level: (low/med)	LOW	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (pL)

CAS NO. COMPOUND		(µg/L or µg/Kg) UG/L	
71-43-2	Benzene	10	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

KEY-URS156 S25

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS	INC Contra	act:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-002A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8814.D
Level: (low/med)	TOM	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (pL)

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

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LAN	3S INC Cor	itract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/wate	r) WATER	Lab Sample ID:	1212B46-006A
Sample wt/vol:	<u>5</u> (g/mL) <u>ML</u>	Lab File ID:	12\J8821.D
Level: (low/med)	TOM	Date Received:	12/21/12
% Moisture: not de	c.	Date Analyzed:	12/28/12
GC Column: Rtx-6	24 ID: <u>.18</u> (mm	) Dilution Factor:	1.00
Soil Extract Volum	e: (pL)	Soil Aliquot Volu	me (µL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	0
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-URS156 S40

OLM04.2

	1A		EPA SAMPLE NO.
VOLATIL	E ORGANICS ANALYSIS DATA	SHEET	DUP122012
Lab Name: <u>H2M LABS</u>	INC Contra	ot!	Fuld Displacete of Hima -205
Lab Code: H2M	Case No.: <u>KEY-URS</u> SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-009A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8824.D
Level: (low/med)	LOW	Date Received:	12/21/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(pL)	Soil Aliquot Volu	ume (µL)

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

KEY-URS156 S43

EPA SAMPLE NO.

HIMW-201

Lab Name: H2M LABS	INC Contra	act:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-005A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8820.D
Level: (low/med)	FOM	Date Received:	12/21/12
<pre>% Moisture: not dec.</pre>		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (pL)

	V.C. AND ALCONDUCTION OF A DATA AND A DATA AND A DATA	
COMPOUND	(µg/L or µg/Kg) UG/L	Q
Benzene	7	-
Toluene	2	
Ethylbenzene	1	
Xylene (total)	120	
	Benzene Toluene Ethylbenzene	Benzene     7       Toluene     2       Ethylbenzene     1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS	INC Contra	act:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-009A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8807.D
Level: (low/med)	LOW	Date Received:	12/19/12
<pre>% Moisture: not dec.</pre>		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(pL)	Soil Aliquot Vol	ume (µL)

CAS NO. COMPOUND (µg/L or		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	14	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	υ
1330-20-7	Xylene (total)	12	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-23

Lab Name: H2M LABS	INC Contra	ict:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-008A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	<u>12\J8808.p</u>
Level: (low/med)	TOM	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(JL)	Soil Aliquot Vol	ume (µL)

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

EPA SAMPLE NO.

HIMW-24

Lab Name: H2M LABS	INC Contra		
Lab Code: H2M	Case No.: <u>KEY-URS</u> SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-007A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8822.D
Level: (low/med)	LOW	Date Received:	12/21/12
<pre>% Moisture: not dec.</pre>		Date Analyzed:	12/28/12
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (µL)

## CONCENTRATION UNITS:

CAS NO.	. COMPOUND (µg/L or µg/Kg) UG/L		Q
71-43-2	Benzene	16	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	15	
1330-20-7	Xylene (total)	3	

OLM04.2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-25

Lab Name: H2M LABS	INC Contra	act:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-008A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8823.D
Level: (low/med)	LOW	Date Received:	12/21/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	me (pL)

		· · · · · · · · · · · · · · · · · · ·	
CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	2	-
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	210	

	18		EPA SAMPLE NO.
VOLATIL	E ORGANICS ANALYSIS DATA	SHEET	DUP122112
Lab Name: H2M LABS 1	INC Contra	ot:	Field Prophects of
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: <u>KEY-URS156</u> H (MU - 25
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-010A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	12\J8825.D
Level: (low/med)	TOM	Date Received:	12/21/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (µg/L		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	2	
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	200	

OLM04.2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-121912

Lab Name: H2M LABS 1	INC Contra	act:	
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-010A
Sample wt/vol: 5	(g/mL) MI.	Lab File ID:	12\J8806.D
Level: (low/med)	LOW	Date Received:	12/19/12
% Moisture: not dec.		Date Analyzed:	12/28/12
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (pL)

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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB-122812

Lab Name: H2M LABS	INC Contra		
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-009A
Sample wt/vol: 5	(g/mL) ML	Lab File ID:	A\A77821.D
Level: (low/med)	LOW	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/04/13
GC Column: Rtx-624	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(Lu)	Soil Aliquot Vol	ume (µL)

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

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-122812

Lab Name: H2M LABS	INC Contra	act:	
and some a second			
Lab Code: H2M	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-010A
Sample wt/vol: 5	(g/mL) ML	Lab File ID;	A\A77820.D
Level: (low/med)	LOW	Date Received:	12/28/12
% Moisture: not dec.		Date Analyzed:	01/04/13
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Vol	ume (µL)

CONCENTRATION UNITS:

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

KEY-URS157 S27

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(COMMAN)

EPA SAMPLE NO.

TB-122112

Lab Name: H2M LABS	INC Contra	ct:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS SAS	No.:	SDG No.: KEY-URS156
Matrix; (soil/water)	WATER	Lab Sample ID:	1212B46-011A
Sample wt/vol: 5	(g/mL) <u>MI</u>	Lab File ID:	A\A77818.D
Level: (low/med)	LOW	Date Received:	12/21/12
% Moisture: not dec.		Date Analyzed:	01/04/13
GC Column: <u>Rtx-624</u>	ID: <u>.18</u> (mm)	Dilution Factor:	1.00
Soil Extract Volume:	(µL)	Soil Aliquot Volu	ume (µL)

#### CONCENTRATION UNITS:

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

KEY-URS156 S45

OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-03S

Lab Name: H2M LABS 1	INC	Contract:	1
Lab Code: <u>H2M</u>	Case No.: KEY-	URS SAS No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-003B
Sample wt/vol:	1000 (g/mL)	<u>ml</u> Lab File ID:	3\N55394.D
Level: (low/med)	LOW	Date Received:	12/28/12
% Moisture:	Decanted: (Y/N)	N Date Extracted:	01/02/13
Concentrated Extract	Volume: 1000	(µL) Date Analyzed;	01/03/13
Injection Volume:	2 (µL)	Dilution Factor	:: <u>1.00</u>
GPC Cleanup: (Y/N)	N pH:	Extraction: (Ty	pe) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	υ
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	UJ
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

OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS	INC	Contract	a	
Lab Code: <u>H2M</u>	Case No.: KEY-	URS SAS	No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER		Lab Sample ID:	1212D60-005B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	3\N55396.D
Level: (low/med)	LOW		Date Received:	12/28/12
% Moisture:	Decanted: (Y/N)	N	Date Extracted:	01/02/13
Concentrated Extract	Volume: 1000	(µL)	Date Analyzed:	01/04/13
Injection Volume:	2 (µL)		Dilution Factor:	1.00
GPC Cleanup. (V/N)	N pH-		Extraction: (Type)	CONT

CONCENTRATION UNITS:

EPA SAMPLE NO.

HIMW-03I

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	UJ
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

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-03D
Lab Name: H2M LABS	INC	Contr	act:	
Lab Code: <u>H2M</u>	Case No.: KEY-	URS	SAS No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER		Lab Sample ID:	1212D60-004B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	3\N55395.D
Level: (low/med)	LOW		Date Received:	12/28/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	01/02/13
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	01/03/13
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type)	CONT

## CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	Ŭ
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	UT
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

1125/13

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

	and the second second		HIMW-05S
Lab Name: H2M LABS	INC Cor	ntract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-006B
Sample wt/vol:	1000 (g/mL) ml	Lab File ID:	<u>3\N55397.D</u>
Level: (low/med)	LOW	Date Received:	12/28/12
<pre>% Moisture:</pre>	Decanted: (Y/N) N	Date Extracted:	01/02/13
Concentrated Extract	Volume: 1000 (µL)	Date Analyzed:	01/04/13
Injection Volume:	2 (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Extraction: (Type)	CONT

CAS NO. COMPO

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	UU
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	
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	UJ
50-32-8	Benzo(a)pyrene		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
Annual La		10	U

(1) Cannot be separated from Diphenylamine

OLM04.2

FORM I SV- 1

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

			HIMW-05I
Lab Name: H2M LABS	INC	Contract:	
Lab Code: H2M	Case No.: KEY-	URS SAS No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-007B
Sample wt/vol:	1000 (g/mL)	<u>ml</u> Lab File ID:	3\N55398.D
Level: (low/med)	LOW	Date Received:	12/28/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N Date Extracted:	01/02/13
Concentrated Extract	Volume: <u>1000</u>	(µL) Date Analyzed:	01/04/13
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Extraction: (Type	) CONT

CAS NO

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	1900 860	ED
91-57-6	2-Methylnaphthalene	370 280	BD
208-96-8	Acenaphthylene	190 140	ED
83-32-9	Acenaphthene	10	- Alb
86-73-7	Fluorene	23	
85-01-8	Phenanthrene	12	
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	UJ
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
· ·		- W	0

(1) Cannot be separated from Diphenylamine

1/2/13

OLM04.2

	10		EPA SAMPLE NO.
SEMIVOLAT	TILE ORGANICS ANALY	SIS DATA SHEET	HIMW-05IDL
Lab Name: H2M LABS	INC	Contract:	
Lab Code: <u>H2M</u>	Case No.: KEY-U	RS SAS NO.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-007BDL
Sample wt/vol:	1000 (g/mL)	ML Lab File ID:	3\N55415.D
Level: (low/med)	LOW	Date Received:	12/28/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N Date Extracted:	01/02/13
Concentrated Extract	Volume: <u>1000</u> (	pL) Date Analyzed:	01/04/13
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	40.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type	) <u>CONT</u>
CAS NO.	COMPOUND		NTRATION UNITS: or µg/Kg) UG/L Q
91-20-3	Naphthalene		1900 D
91-57-6	2-Methylnaphthale	00	270

		1300	I D
2-Methylnaphthalene		370	DJ
Acenaphthylene			DJ
Acenaphthene			U
Fluorene			U
Phenanthrene		400	U
Anthracene		400	U
Fluoranthene			U
Pyrene	- X -		U
Benzo(a) anthracene			U
Chrysene	1		0
Benzo(b)fluoranthene	1		
			0 7
			U
	V		U
			U
Benzo(g,h,i)perylene	1	400	U
	Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo (a) anthracene Chrysene Benzo (b) fluoranthene Benzo (b) fluoranthene Benzo (a) pyrene Indeno (1, 2, 3-cd) pyrene Dibenzo (a, h) anthracene	AcenaphthyleneAcenaphtheneFluorenePhenanthrenePhenanthrenePhenanthrenePyreneBenzo (a) anthraceneChryseneBenzo (b) fluorantheneBenzo (k) fluorantheneBenzo (a) pyreneIndeno (1, 2, 3-cd) pyreneDibenzo (a, h) anthracene	Acenaphthylene190Acenaphthene400Fluorene400Phenanthrene400Anthracene400Fluoranthene400Pyrene400Benzo (a) anthracene400Chrysene400Benzo (b) fluoranthene400Benzo (k) fluoranthene400Benzo (a) pyrene400Benzo (a) pyrene400Benzo (a) pyrene400Benzo (a) pyrene400Benzo (a) pyrene400Benzo (a) h) anthracene400Benzo (a, h) anthracene400

(1) Cannot be separated from Diphenylamine

1/20/2

KEY-URS157 S36

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D Lab Name: H2M LABS INC Contract: Lab Code: H2M Case No.: KEY-URS SAS No.: SDG No.: KEY-URS157 Matrix: (soil/water) WATER Lab Sample ID: 1212D60-008B Sample wt/vol: 1000 (g/mL) ml Lab File ID: 3\N55401.D Level: (low/med) LOW Date Received: 12/28/12 % Moisture: Decanted: (Y/N) N Date Extracted: 01/02/13 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/04/13 Injection Volume: 2 (µL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: \_\_\_\_

Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/	LQ
91-20-3	Naphthalene	540	B /
91-57-6	2-Methylnaphthalene	140 .98	
208-96-8	Acenaphthylene	38	RD.
83-32-9	Acenaphthene	2	-
86-73-7	Fluorene	6	J
85-01-8	Phenanthrene	10	J U
120-12-7	Anthracene	10	
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		U
207-08-9	Benzo(k)fluoranthene	10	υŢ
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
	and the set of setting	10	U

(1) Cannot be separated from Diphenylamine

OLM04.2

1/28/13

FORM I SV- 1

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

The second states of the second			HIMW-05DDL
Lab Name: H2M LABS	INC Contr	act:	
Lab Code: H2M	Case No.: KEY-URS	SAS No. :	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-008BDL
Sample wt/vol:	1000 (g/mL) ML	Lab File ID:	3\N55443.D
Level: (low/med)	LOW	Date Received:	12/28/12
% Moisture:	Decanted: (Y/N) N	Date Extracted:	01/02/13
Concentrated Extract	Volume: 1000 (µL)	Date Analyzed:	01/07/13
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	40.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type	) CONT

EPA SAMPLE NO.

CAS NO.	COMPOUND		CONCENTRATION UNITS (µg/L or µg/Kg) UG/	
91-20-3	Naphthalene		1100	D
91-57-6	2-Methylnaphthale	ne	140	-
208-96-8	Acenaphthylene		56	DJ
83-32-9	Acenaphthene			DJ
86-73-7	Fluorene		400	U
85-01-8	Phenanthrene	1	400	U
	1	1	400	U
120-12-7	Anthracene	1	400	U
206-44-0	Fluoranthene		400	U
129-00-0	Pyrene	1	400	
56-55-3	Benzo(a) anthracen	ė		U
218-01-9	Chrysene		400	U
205-99-2	Benzo (b) fluoranth	000	400	U
207-08-9	Benzo(k)fluoranth		400	U
50-32-8	Benzo (a) pyrene	ene	400	U
193-39-5	Indeno(1,2,3-cd)p		400	U
53-70-3	Diberge (a black)	yrene	400	U
191-24-2	Dibenzo(a,h)anthra		400	U
171-24-2	Benzo(g,h,i)peryle	ene	400	U

(1) Cannot be separated from Diphenylamine

KEY-URS157 S38

OLM04.2

FORM I SV- 1

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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-URS156 Matrix: (soil/water) WATER Lab Sample ID: <u>1212B46-003B</u> Sample wt/vol: 1000 (g/mL) <u>ml</u> Lab File ID: 2\R13573.D Level: (low/med) LOW Date Received: 12/21/12 % Moisture: Decanted:(Y/N) N Date Extracted: 12/26/12 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/29/12 Injection Volume:  $\underline{2}$  (µL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction: (Type) CONT

CONCENTRATION UNITS:

EPA SAMPLE NO.

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	1	J	
83-32-9	Acenaphthene	10	U	
86-73-7	Fluorene	10	U	
85-01-8	Phenanthrene	10	0	
120-12-7	Anthracene	10	1	
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
56-55-3	Benzo(a) anthracene	10		
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		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	UU	

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-81
Lab Name: H2M LABS	INC	Contra	act:	
Lab Code: H2M	Case No.: KEY-	URS S	BAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER		Lab Sample ID:	1212B46-002B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	2\R13572.D
Level: (low/med)	LOW		Date Received:	12/21/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	12/26/12
Concentrated Extract	Volume: 1000	(μL)	Date Analyzed:	12/29/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N DH:		Extraction: (Type	) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) <u>UG/L</u>	0
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	UU
120-12-7	Anthracene	10	Ŭ
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene		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
Commet L		10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

OLM04.2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS	INC Cont	tract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-001B
Sample wt/vol:	<u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\R13571.D
Level: (low/med)	LOW	Date Received:	12/21/12
<pre>% Moisture:</pre>	Decanted:(Y/N) N	Date Extracted:	12/26/12
Concentrated Extract	. Volume: <u>1000</u> (µL)	Date Analyzed:	12/28/12
Injection Volume:	<u>2</u> (μL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type	) <u>CONT</u>

CAS NO.

COMPOUND

CONCENTRATION UNITS:

the second s	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) UG/L$	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	
85-01-8	Phenanthrene	10	U U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	
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		U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

			HIMW-12S
Lab Name: H2M LABS	INC Cor	ntract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-001B
Sample wt/vol:	1000 (g/mL) ml	Lab File ID:	3\N55392.D
Level: (low/med)	LOW	Date Received:	12/28/12
% Moisture:	Decanted: (Y/N) <u>N</u>	Date Extracted:	01/02/13
Concentrated Extract	Volume: 1000 (µL)	Date Analyzed:	01/03/13
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Extraction: (Type)	CONT

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	5	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	UJ
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

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-12I
Lab Name: H2M LABS	INC	Contr	act:	
Lab Code: H2M	Case No.: KEY-	URS	SAS No.:	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER		Lab Sample ID:	1212D60-002B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	3\N55393.D
Level: (low/med)	LOW		Date Received:	12/28/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	01/02/13
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	01/03/13
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type)	CONT

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	Company	ouncentrativen birits;	
	COMPOUND	(µg/L or µg/Kg) UG/L	0
91-20-3	Naphthalene	1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	36	
83-32-9	Acenaphthene	39	
86-73-7	Fluorene	25	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	UJ
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	
191-24-2	Benzo(g,h,i)perylene	10	UU

(1) Cannot be separated from Diphenylamine

1/28/15

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Code: H2M       Case No.: KEY-URS       SAS No.:       SDG No.: KEY-UR         Matrix: (soil/water)       WATER       Lab Sample ID:       1212B46-004B         Sample wt/vol:       1000       (g/mL)       ml       Lab File ID:       2\R13574.D         Level:       (low/med)       LOW       Date Received;       12/21/12	-
Matrix: (soil/water) WATER     Lab Sample ID:     1212B46-004B       Sample wt/vol:     1000     (g/mL) ml     Lab File ID:     2\R13574.D	RS156
Level: (low/med) LOW Date Received: 12/21/12	
<u>+4/21/12</u>	
<pre>% Moisture: Decanted: (Y/N) N Date Extracted: 12/26/12</pre>	
Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/29/12	
Injection Volume: <u>2</u> (µL) Dilution Factor: <u>1.00</u>	
GPC Cleanup: (Y/N) N pH: Extraction: (Type) CONT	

CAS NO.

COMPOUND

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	0
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	_
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	UU
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	
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		U
191-24-2	Benzo(g,h,i)perylene	10	UU
Country 1			0

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

			HIMW-13S
Lab Name: H2M LABS :	INC C	Contract:	
Lab Code: <u>H2M</u>	Case No.: KEY-UR	S SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212A52-007B
Sample wt/vol:	1000 (g/mL)	ml Lab File ID:	2\R13561.D
Level: (low/med)	LOW	Date Received:	12/19/12
% Moisture:	Decanted: (Y/N) N	Date Extracted:	12/21/12
Concentrated Extract	Volume: 1000 (µ1	L) Date Analyzed:	12/28/12
Injection Volume:	<u>2</u> (μL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Extraction: (Type	) CONT

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	
91-20-3	Naphthalene	10	QU
91-57-6	2-Methylnaphthalene	10	
208-96-8	Acenaphthylene	10	UU
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	
56-55-3	Benzo(a)anthracene	10	U U
218-01-9	Chrysene	10	
205-99-2	Benzo(b)fluoranthene	10	UU
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	
191-24-2	Benzo(g,h,i)perylene	10	UU

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

			Contra Manage	HIMW-13I
Lab Name: H2M LABS	INC	Cont	ract:	1
Lab Code: <u>H2M</u>	Case No.: KEY	URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER		Lab Sample ID:	1212A52-006B
Sample wt/vol:	<u>1000</u> (g/mL)	ml	Lab File ID:	2\R13513.D
Level: (low/med)	LOW		Date Received:	12/19/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	12/21/12
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	12/27/12
Injection Volume:	2 (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type	) CONT

CAS NO.

COMPOUND

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/		
91-20-3	Naphthalene	10	QU	
91-57-6	2-Methylnaphthalene	10	U	
208-96-8	Acenaphthylene	5		
83-32-9	Acenaphthene	10	J	
86-73-7	Fluorene	10	U	
85-01-8	Phenanthrene	2	J J	
120-12-7	Anthracene	10	U	
206-44-0	Fluoranthene	10		
129-00-0	Pyrene	10	U	
56-55-3	Benzo(a)anthracene	10	UU	
218-01-9	Chrysene	10		
205-99-2	Benzo(b)fluoranthene	10	U	
207-08-9	Benzo(k)fluoranthene	10	U	
50-32-8	Benzo(a)pyrene		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	UU	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-13D
Lab Name: H2M LABS	INC	Contract:		
Lab Code: <u>H2M</u>	Case No.: KEY-	URS SAS N	0. :	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER	La	b Sample ID:	1212A52-005B
Sample wt/vol:	1000 (g/mL)	<u>ml</u> La	b File ID:	2\R13512.D
Level: (low/med)	LOW	Da	te Received:	12/19/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	<u>N</u> Da	te Extracted:	12/21/12
Concentrated Extract	Volume: <u>1000</u>	(µL) Dat	te Analyzed:	12/27/12
Injection Volume:	<u>2</u> (μL)	Di	lution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Ext	traction: (Type)	CONT

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NU.	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) UG/L$	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene		U
83-32-9	Acenaphthene	12	-
86-73-7	Fluorene	6	J
85-01-8	Phenanthrene	10	U U
120-12-7	Anthracene		
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) normal and	10	U
	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-14I
Lab Name: H2M LABS	INC	Contrac	st:	
Lab Code: H2M	Case No.: KEY-	URS SA	S No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER		Lab Sample ID:	1212A52-003B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	2\R13510.D
Level: (low/med)	LOW		Date Received:	12/19/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	12/21/12
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	12/27/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type)	CONT

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

L

CAS NO.	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) UG/L$	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	
208-96-8	Acenaphthylene	22	U
83-32-9	Acenaphthene		-
86-73-7	Fluorene	16	
85-01-8	Phenanthrene		J
120-12-7	Anthracene		-
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	1	J
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	Bengo (g h i) anthracene	10	U
	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-14D
Lab Name: H2M LABS	INC	Cont	ract:	
Lab Code: <u>H2M</u>	Case No.: KEY-	URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER		Lab Sample ID:	1212A52-004B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	2\R13511.D
Level: (low/med)	LOW		Date Received:	12/19/12
% Moisture:	Decanted: (Y/N)	N	Date Extracted:	12/21/12
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	12/27/12
Injection Volume:	<u>2</u> (μL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type	) <u>CONT</u>

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	10	U U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	-
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	UU
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	-
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene		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
Connet he see	the state of the s	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-15I
Lab Name: H2M LABS	INC	Contrac	t:	
Lab Code: H2M	Case No.: KEY-	URS SAS	5 No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER		Lab Sample ID:	1212A52-001B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	2\R13508.D
Level: (low/med)	LOW		Date Received:	12/19/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	N	Date Extracted:	12/21/12
Concentrated Extract	Volume: 1000	(µL)	Date Analyzed:	12/27/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:		Extraction: (Type)	CONT

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q	
91-20-3	Naphthalene	10	U	
91-57-6	2-Methylnaphthalene	10	U	
208-96-8	Acenaphthylene	10	0	
83-32-9	Acenaphthene	5	J	
86-73-7	Fluorene	10	U	
85-01-8	Phenanthrene	2	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	UU	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3	Dibenzo(a,h)anthracene	10		
191-24-2	Benzo(g,h,i)perylene	10	UU	

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

COMPANY

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

and the second		HIMW-15D
Lab Name: <u>H2M LABS INC</u> Con	tract:	
Lab Code: H2M Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water) WATER	Lab Sample ID:	1212A52-002B
Sample wt/vol: <u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\R13509.D
Level: (low/med) LOW	Date Received:	12/19/12
<pre>% Moisture: Decanted:(Y/N) N</pre>	Date Extracted:	12/21/12
Concentrated Extract Volume: <u>1000</u> ( $\mu$ L)	Date Analyzed:	12/27/12
Injection Volume: <u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N) N pH:	Extraction: (Type	) CONT

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

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CAS NO.	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) UG/L$	0
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene		U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U U
120-12-7	Anthracene	10	_
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		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
the second	benzo (g, n, 1/peryrene	10	U

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

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-URS156 Matrix: (soil/water) WATER Lab Sample ID: <u>1212B46-006B</u> Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R13576.D Level: (low/med) LOW Date Received: 12/21/12 % Moisture: Decanted:(Y/N) N Date Extracted: 12/26/12 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/29/12 Injection Volume: <u>2</u> (µL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction; (Type) CONT

CAS NO. COMPOUND		CONCENTRATION UNITS: $(\mu g/L \text{ or } \mu g/Kg) \text{ UG/L}$		
91-20-3	Naphthalene	10	U	
91-57-6	2-Methylnaphthalene	10	U	
208-96-8	Acenaphthylene	10	U	
83-32-9	Acenaphthene	10		
86-73-7	Fluorene		U	
85-01-8	Phenanthrene	10	UU	
120-12-7	Anthracene	10		
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
56-55-3	Benzo(a)anthracene		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	
Cannot he assess		10	U	

(1) Cannot be separated from Diphenylamine

FORM I SV- 1

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>H2M LABS</u>	INC Cont	cract:	DUP122012	Duplicate of
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS156	#1110-205
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-009B	
Sample wt/vol:	<u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\R13579.D	
Level: (low/med)	LOW	Date Received:	12/21/12	
<pre>% Moisture:</pre>	Decanted: (Y/N) N	Date Extracted:	12/26/12	
Concentrated Extract	Volume; <u>1000</u> (µL)	Date Analyzed:	12/29/12	
Injection Volume:	<u>2</u> (μL)	Dilution Factor:	1.00	
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type	e) <u>CONT</u>	

EPA SAMPLE NO.

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CONCENTRATION UNITS: CAS NO. COMPOUND (µg/L or µg/Kg) UG/L 91-20-3 Naphthalene 10 91-57-6 2-Methylnaphthalene 10 208-96-8 Acenaphthylene 10 83-32-9 Acenaphthene 10 86-73-7 Fluorene 10 85-01-8 Phenanthrene 10 120-12-7 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-URS156 S65

OLMO4.2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract; Lab Code: H2M Case No.: KEY-URS SAS No.: SDG No.: KEY-URS156 Matrix: (soil/water) WATER Lab Sample ID: 1212B46-005B Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R13575.D Level: (low/med) LOW Date Received: 12/21/12 % Moisture: Decanted:(Y/N) N Date Extracted: 12/26/12 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/29/12 Injection Volume: 2 (µL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction: (Type) CONT

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	
91-20-3	Naphthalene	780 950	E
91-57-6	2-Methylnaphthalene	97 130	
208-96-8	Acenaphthylene	-120 /50	EA
83-32-9	Acenaphthene	8	EO
86-73-7	Fluorene		J
85-01-8	Phenanthrene	16	
120-12-7	Anthracene		
206-44-0	Fluoranthene	2	J
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	Dibonzo (a, b) with	10	Ų
191-24-2	Dibenzo(a, h) anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM I SV- 1

(1) Cannot be separated from Diphenylamine

KEY-URS156 S60

OLMO4.2

12571

HIMW-20I

EPA SAMPLE NO.

1C EPA SAMPLE NO. SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET HIMW-20IDL Lab Name: H2M LABS INC Contract: Lab Code: H2M Case No.: KEY-URS SAS No.: SDG No.: KEY-URS156 Matrix: (soil/water) WATER Lab Sample ID: 1212B46-005BDL Sample wt/vol: 1000 (g/mL) ML Lab File ID: 3\R13642.D Level: (low/med) LOW Date Received: 12/21/12 % Moisture: Decanted: (Y/N) N Date Extracted: 12/26/12 Concentrated Extract Volume: <u>1000</u> ( $\mu$ L) Date Analyzed: 01/08/13 Injection Volume: 2 (µL) Dilution Factor: 20.00 GPC Cleanup: (Y/N) N Extraction: (Type) CONT pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS $(\mu g/L \text{ or } \mu g/Kg) UG/I$	
91-20-3	Naphthalene	950	D
91-57-6	2-Methylnaphthalene	130	DJ
208-96-8	Acenaphthylene	150	
83-32-9	Acenaphthene	200	DJ
86-73-7	Fluorene	200	U
85-01-8	Phenanthrene	200	UU
120-12-7	Anthracene	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	
56-55-3	Benzo(a) anthracene	200	U
218-01-9	Chrysene		U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k) fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd) pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
	benzo(g,n,1)perylene	200	U

(1) Cannot be separated from Diphenylamine

OLM04.2

**KEY-URS156 S61** 

FORM I SV- 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

				HIMW-22
Lab Name: H2M LABS	INC	Conti	ract:	
Lab Code: H2M	Case No.: KEY	-URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)	WATER		Lab Sample ID:	1212A52-009B
Sample wt/vol:	1000 (g/mL)	ml	Lab File ID:	2\R13570.D
Level: (low/med)	LOW		Date Received:	12/19/12
% Moisture:	Decanted: (Y/N)	N	Date Extracted:	12/26/12
Concentrated Extract	Volume: <u>1000</u>	(µL)	Date Analyzed:	12/28/12
Injection Volume:	<u>2</u> (µL)		Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N DH:		Extraction: (Type	) CONT

CONCENTRATION UNITS: CAS NO. COMPOUND (µg/L or µg/Kg) UG/L Q 91-20-3 Naphthalene 10 U 91-57-6 2-Methylnaphthalene 10 U 208-96-8 Acenaphthylene 13 83-32-9 Acenaphthene 1 J 86-73-7 Fluorene 10 U 85-01-8 Phenanthrene 2 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

KEY-URS156 S55

OLM04.2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Tab Marine man and			HIMW-23
Lab Name: H2M LABS	INC Con	tract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS156
Matrix: (soil/water)		Lab Sample ID:	1212A52-008B
Sample wt/vol:	<u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\R13562.D
Level: (low/med)	LOW	Date Received;	12/19/12
% Moisture:	Decanted: (Y/N) N	Date Extracted:	12/21/12
Concentrated Extract	Volume: <u>1000</u> (µL)	Date Analyzed:	12/28/12
Injection Volume:	<u>2</u> (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Extraction: (Type	) <u>CONT</u>

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO. COMPOUND		(µg/L or µg/Kg) UG/L	
91-20-3	Naphthalene		Q
91-57-6	2-Methylnaphthalene	10	Ų
208-96-8	Acenaphthylene	4	U
83-32-9	Acenaphthene	10	J
86-73-7	Fluorene		U
85-01-8	Phenanthrene	10	UU
120-12-7	Anthracene	10	
206-44-0	Fluoranthene		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		Ų
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene		U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a, h) anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-24 Lab Name: H2M LABS INC Contract: Lab Code: H2M Case No.: KEY-URS SAS No.: SDG No.: KEY-URS156 Matrix: (soil/water) WATER Lab Sample ID: <u>1212B46-007B</u> Sample wt/vol: 1000 (g/mL) ml Lab File ID: 2\R13577.D Level: (low/med) LOW Date Received: <u>12/21/12</u> % Moisture: Decanted: (Y/N) N Date Extracted: 12/26/12 Concentrated Extract Volume: <u>1000</u> ( $\mu$ L) Date Analyzed: <u>12/29/12</u> Injection Volume: 2 (µL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: \_\_\_\_ Extraction: (Type) CONT

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.		CONCENTRATION UNITS:	
	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) UG/L$	
91-20-3	Naphthalene	10	Q
91-57-6	2-Methylnaphthalene	10	_
208-96-8	Acenaphthylene	4	U
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene		J
85-01-8	Phenanthrene	4	J J
120-12-7	Anthracene		-
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		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
0		10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. EET HIMW-25

Lab Name: H2M LABS	INC Con	tract:	
Lab Code: <u>H2M</u>	Case No.: KEY-URS	SAS No.:	SDG NO.: KEY-URS156
Matrix: (soil/water)	WATER	Lab Sample ID:	1212B46-008B
Sample wt/vol:	<u>1000</u> (g/mL) <u>ml</u>	Lab File ID:	2\R13578.D
Level: (low/med)	LOW	Date Received:	12/21/12
<pre>% Moisture:</pre>	Decanted: (Y/N) N	Date Extracted:	12/26/12
Concentrated Extract	Volume: <u>1000</u> (µL)	Date Analyzed:	12/29/12
Injection Volume:	<u>2</u> (μL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	<u>N</u> pH:	Extraction: (Type	) <u>CONT</u>

CAS NO.

COMPOUND

CONCENTRATION UNITS:

CAS NO.	COMPOUND	$(\mu g/L \text{ or } \mu g/Kg) UG/L$	0
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene		U
208-96-8	Acenaphthylene	10	Ų
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthen	10	U
206-44-0	Anthracene	10	U
129-00-0	Fluoranthene	10	U
56-55-3	Pyrene	10	U
	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	
191-24-2	Benzo(g,h,i)perylene	10	U
Connat he		10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

		DUP122112	Full Duplicate
Lab Name: H2M LABS INC Con	tract:		inf
Lab Code: H2M Case No.: KEY-URS	SAS No.:	SDG No.: KEY-URS156	HIMW-25
Matrix: (soil/water) WATER	Lab Sample ID:	1212B46-010B	
Sample wt/vol: 1000 (g/mL) ml	Lab File ID:	2\R13580.D	
Level: (low/med) LOW	Date Received:	12/21/12	
% Moisture: Decanted:(Y/N) N	Date Extracted:	12/26/12	
Concentrated Extract Volume: $1000$ (µL)	Date Analyzed:	12/29/12	
Injection Volume: 2 (µL)	Dilution Factor:	1.00	
GPC Cleanup: (Y/N) N pH:	Extraction: (Type	) CONT	

EPA SAMPLE NO.

г

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/kg) <u>UG/L</u>	
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene		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) Comment )	sense (g, n, 1) per yrene	10	Ü

(1) Cannot be separated from Diphenylamine

KEY-URS156 S66

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS	INC	Contract:	FB-122812
Lab Code: H2M	Case No.: KEY-UR	······································	SDG No.: KEY-URS157
Matrix: (soil/water)	WATER	Lab Sample ID:	1212D60-009B
Sample wt/vol:	1000 (g/mL)	ml Lab File ID:	3\N55402.D
Level: (low/med)	LOW	Date Received:	12/28/12
<pre>% Moisture:</pre>	Decanted: (Y/N)	Date Extracted:	01/02/13
Concentrated Extract	Volume: <u>1000</u> (µ	L) Date Analyzed:	01/04/13
Injection Volume:	2 (µL)	Dilution Factor:	1.00
GPC Cleanup: (Y/N)	N pH:	Extraction: (Type)	CONT

CAS NO.

CONCENTRATION UNITS:

EPA SAMPLE NO.

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	0
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	UU
120-12-7	Anthracene	10	
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		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 U
Connat be an		10	0

(1) Cannot be separated from Diphenylamine

## ATTACHMENT B

# SUPPORT DOCUMENTATION

H2M SDG NO: LET-URS I'H	NOTES: Project Contact: guist Jon Sun Guist Phone Number: 716-856-5636 Pisiquote #				LAB I.D. NO. REMARKS:	100	1	- 003	Hea -	500 -	- 006	- 60]	208	-009 Trime: 1345	010 - 1.	3	the second second A	YorN	4. Property preserved: Apr N	COC Tape was:
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Kes loca			ANALYSIS REQUESTED		824											Date Time	Y	-	Date Time	
ALLINI.	Sample Container Description 2050S 2050S	18	nenia	ORGANIC ORGANIC		Y X X	4X XX	4X XX	4X X X	XX	4 X X	4 XX	4 XX	XX +	XX	) (m. ol	6		hature)	
	NY	· Janas			Ő										- F	HOOMAD DY COUNTING	B Received by (Sig	-	e Received by. (Signature	
	empsteal	Megary		Sad	FIELD I.D.	HIMW- IST	1-15D	1.+1-1	HI MW - 14D	AEI-WWIH	HIMW-13I	HIMW-135	HIMN-23	W- 22	012/112	>(1) (/b//	- C	-	Date Time	
	Nutrione Cirk Fintesection St, Hempsterl, NY 11176 298.000054 SAMPLERS: (signatura/Client Nira Heddelariz /URS Mine Che	DELIVERABLES: DELIVERABLES:	TURNAROUND TIME	Stan	TIME MATRIX	915 GW	1020		1350 GW	ξE	WWIHI ON CON HIMM	-	13457 G W	H M J G A	Affinited for (Streatment)	.0.	Signature)	Poor Vogel	elinquished by: (Signature)	

		UKS Corpo	rather	H2M	H2M SDG NO: Ven . Wa
National Grad Hitersection St, Hempsterl, NY	aniatnoc noitgh A O o C O C			NOTES:	Project Contact: Jou Sunguist Peter Fairbaules
SAMPLERS: (signature) Client	178				116-856-5636
Megan Dascoli/URS Ulegan Deseral.	RAH Stex				PIS/Quote #
	2191	ANALYSIS REQUESTED			
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240 "412/340	Ald Ram	12/21/14/340	1.00	LABORATORY USE ONLY Discrepancies Between Samples were.	EONLY
Relinquished by: (Signature) Date Time Received by: (Signature)	filme)	Date Time 12/24/11-12/35	a tr		1. Shippad_or Hand Deliverod Airbilita 2. Ambient or chilled, Temp. 2. 3. 7. 7. 3. 3. Received in good condition: Yor N. 3. 2. 9.
Relinquished by. (Stonature) Data Timo Booked to (Stonature)		-		COC Tape was:	35. Autor nacionae - V M
	(amo	Uate	<u>  </u>	2. Unbroken 3. COC reco	<ol> <li>Unbroken on outer package: Y or N</li> <li>COC record present &amp; complete upon sample receipt: Y or N</li> </ol>

PINK CUPY - LABORATORY

UKS CORDENTION OF CUSIOUY POR	Project Contact: Jon Sundquist Peter Frischanles Phone Number: 716-856-5636 PISQuote #		REMARKS:	500		ATNO	Semoles were: 1. Shipped of Hand Delivered Arithill# 2. Ambient or chilled, Temp 2. 7 ~ 5 2 3 · 6 3. Received in good condition: Y or N 2. 3 · 6 4. Property preserved: Y or N	COC Tape was: 1. Present on outer package: Y or N 2. Unbroken on outer package: Y or N 3. COC record present & complete upon sample receipt: Y or N
	NOTES:	0	LAB I.D. NO.			131	ue v.	COC Table was: 1. Present on ou 2. Unbroken on ou 3. COC record p
Corporation.	2	ED INORG.	CN Wetal	13			Discrepancies Between Sample Labels and COC Record? Yor N Explain:	
eared 2		ANALYSIS REQUESTED			++++	Date Time	Date Time	Date
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CL	Sample Container	Total No. of Containers	-> :	+	Ramined hur (Clansin and	.7	Received by: (Signature) Received by: (Signature)	Received by: (Signature)
le, NY 11747-5076 1) 420-8436	Hempster R, 1	Standad	FIELDI.D.	7 1 7 2 1		1340	Date Time R	Date Time R
575 Broad Hollow Rd, Melville, NY 11747-5076 Tel: (631) 694-3040 Fax: (631) 420-8436 DEO IECT NAMENII INDEED	Natronal Gix Entersection St, Hempsterl, NY 11176098.00008 SAMPLERS: (signature) Client Megan Dascoli Mina Aldel Asing DELIVERABLES:	TURNAROUND TIME: Stan	TIME MATRIX		(am)e	ind.	compared by: (Signature)	delinquished by: (Signature)

COC Tape was: 1. Present on outer p 2. Unbroken on outer 3. COC record preserver		Ite		Time Received by: (Signat	Date	Relinquished by: (Signature)
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	Sample Labels and COC Record? Y or N			Necesived	42/28/12	ha lot
	Discrepancies Between	2812 14:21	T	100	1 uptallic	)   5
600		ate Time		Time Received by: (Signa	Date	(annancies by: (Signature)
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	NOTES:		8	2 NY	st, Hempster	Notional Grid
H2M SDG NO: ILEN	ration	ado	CLIENT: URS	00	PROJECT NAME/NUMBER	PROJECT NAME/NUMBER
	I.D. NO.     REMARKS:       Prome Number:     7/6 - 875 - 55 36       7/6 - 875 - 55 36       900 - 001     REMARKS:       900 - 001     Remarks       1. Shippod _ 01     Present on outer pactage: Y of 0       1. Shippod _ 01     Remore on outer pactage: Y of 0       2. Untroken on outer pactage: Y of 0     Remore on outer pactage: Y of 0       3. Controken on outer pactage: Y of 0     Remore on outer pactage: Y of 0       2. Untroken on outer pactage: Y of 0     Remore on outer pactage: Y of 0       3. Controken on outer pactage: Y of 0     Remore on outer pactage: Y of 0       3. Controken on outer pactage: Y of 0     Remore on outer pactage: Y of 0       3. Controken on outer pactage: Y of 0     Remore on outer pactage: Y of 0	INORG. IN	STED STED INORG.	Sample Container     Sample Container       Sample Container     Sample Container	D     D     D       A     A     A       A     A       A <td>Mugar Start, J. VY     Murray Start, J. VY       111.76.072     0.0004       Row Mark     6764       Sample Container     53.570       Rent Mark     67.606       Ranch     700       Ranch     700       Ranch     700       Ranch     70       &lt;</td>	Mugar Start, J. VY     Murray Start, J. VY       111.76.072     0.0004       Row Mark     6764       Sample Container     53.570       Rent Mark     67.606       Ranch     700       Ranch     700       Ranch     700       Ranch     70       <

VKS GEREALEXIMAL CHAIN VKS GEREALEXIMAL CHAIN VKS GEREALEX ANALYSIS REQUESTED ANALYSIS RECOLESTED ANALYSIS RECOLESTED	ANT:     ANALYSIS REQUESTED       ANALYSIS REQUESTED <tr< th=""><th>OF CUSTODY P - 4- HZM SDG NO: KENLURG FT</th><th>Project Contact: Jon Suu Rguist Phone Number: 716 - 856-5636 PIS/Quote #</th><th></th><th>VO. REMARKS:</th><th>÷</th><th>LABORATORY USE ONLY       LABORATORY USE ONLY       etween       Etween       Sambles were:       I. Shippedor Hand Delivered       Anblent or drilled/ tempr_3_o_       Y or N       3. Received in-peed condition:       Y or N       3. Received in-peed condition:       Y or N       3. Received in-peed condition:       Y or N       4. Property preserved:       COC Table was:       1. Present on outer package:       2. Unbroken on outer package:       2. Unbroken on outer package:       2. Unbroken on outer package:</th></tr<>	OF CUSTODY P - 4- HZM SDG NO: KENLURG FT	Project Contact: Jon Suu Rguist Phone Number: 716 - 856-5636 PIS/Quote #		VO. REMARKS:	÷	LABORATORY USE ONLY       LABORATORY USE ONLY       etween       Etween       Sambles were:       I. Shippedor Hand Delivered       Anblent or drilled/ tempr_3_o_       Y or N       3. Received in-peed condition:       Y or N       3. Received in-peed condition:       Y or N       3. Received in-peed condition:       Y or N       4. Property preserved:       COC Table was:       1. Present on outer package:       2. Unbroken on outer package:       2. Unbroken on outer package:       2. Unbroken on outer package:
	Containers School by: (Signature) Signat	RNAL CHAIN C	NOTES:	INORG.	5 CN	→	LABOR Incies Between Labels and cord? Y or N
	AC, NY AS SSD SSD SSD SSD SSD SSD SSD SSD SSD	- 1 H	Description	Containers			Date Date Date Date Date Date Date Date



labs

575 Broad Hollow Road Melville, NY 11747

tel 631.694.3040 fax 631.420.8436

#### SDG NARRATIVE FOR VOLATILE ORGANICS SAMPLES RECEIVED: 12/19/12 & 12/21/12 SDG #: KEY-URS156

Page 1 of 2

For Samples:

HIMW-8I	HIMW-24
HIMW-8S	HIMW-25
HIMW-12D	DUP122012
HIMW-20I	DUP122112
HIMW-20S	TB-122112
	HIMW-8S HIMW-12D HIMW-20I

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

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

No sample of this SDG was submitted for matrix spike/matrix spike duplicate analysis, but lab fortified blanks were analyzed for each day of analysis. Recoveries indicate good method efficiency.

Requirements for CCC and SPCC compounds were met in all calibrations. In the initial calibrations, average response factors (RF) and linear regression were used as applicable depending on RSDs. The targeted analytes all had average RF calibrations and acceptable %Ds in the continuous calibration (below 15%).

Requirements for CCC and SPCC compounds were met in all calibrations. In the initial calibrations, average response factors (RF) and linear regression were used as applicable depending on RSDs. The targeted analytes all had average RF calibrations and acceptable %Ds in the continuous calibrations (below 15%). %D for two surrogates (toluene-d8 and 4-bromofluorobenzene) showed low responses with %D greater than 15% on 1/3/13. The reported recoveries for these two surrogated are regarded estimated in sample TB-122112 and the Q. C. samples analyzed on 1/3/13 and are believed to be biased low. The limits are still met.

No positives were found in the method blanks.



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#### SDG NARRATIVE FOR VOLATILE ORGANICS SAMPLES RECEIVED: 12/19/12 & 12/21/12 SDG #: KEY-URS156

Page 2 of 2

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: January 14, 2013

Ursula Middel Technical Manager



labs

575 Broad Hollow Road Melville, NY 11747

tel 631.694.3040 fax 631.420.8436

#### SDG NARRATIVE FOR SEMIVOLATILE ORGANICS SAMPLES RECEIVED: 12/19/12 & 12/21/12 SDG #: KEY-URS156

For Samples:

HIMW-15I	HIMW-13S	HIMW-81	UD OU OA
HIMW-15D	HIMW-23	HIMW-81	HIMW-24
HIMW-141	HIMW-22	HIMW-12D	HIMW-25
HIMW-14D	TB-121912	HIMW-20I	DUP122012
HIMW-13D	HIMW-8D	HIMW-20S	DUP122112
HIMW-13I		1111111-205	TB-122112

The above water sample(s) was/were analyzed for a select list of semivolatile organic analytes 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 sample from this SDG was submitted for matrix spike/matrix spike duplicate (MS/MSD) analysis, but results for the lab fortified blanks indicate good method efficiency. All recoveries met the Q. C. limits.

One sample, HIMW-20I, was reanalyzed at a dilution to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported.

Recovery for the surrogate 1,2-dichlorobenzene-d4 of 115% in sample HIMW-20IDL was above the Q. C. limit of 110%.

All CCC and SPCC calibration requirements were met. In the initial calibrations, average response factors were employed, and all %D for targeted analytes in the three continuous calibrations were within the limit of 15%.

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: January 14, 2013

Ursula Middel Technical Manager



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labs

tel 631.694.3040 fax 631.420.8436

#### SDG NARRATIVE FOR VOLATILE ORGANICS SAMPLES RECEIVED: 12/28/12 SDG #: KEY-URS157

For Samples:

HIMW-12S	HIMW-03I	HIMW-05D
HIMW-12I	HIMW-05S	FB-122812
HIMW-03S	HIMW-051	TB-122812
HIMW-03D		10-122012

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

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

Sample HIMW-051 was analyzed as matrix spike/ matrix spike duplicate (MS/MSD). All percent recoveries for the lab fortified blanks and recoveries and RPDs for the MS and MSD were within Q. C. limits.

Requirements for CCC and SPCC compounds were met in all calibrations. In the initial calibrations, average response factors (RF) and linear regression were used as applicable depending on RSDs. The targeted analytes all had average RF calibrations and acceptable %Ds below 15% in the continuous calibration verification (CCV). %D for two surrogates, toluene-d8 and 4-bromofluorobenzene, showed low responses with %D greater than 15% in both CCVs. The reported recoveries for these two surrogated are regarded estimated and are believed to be biased low. The limits are still met.

No positives were found in the method blanks.

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: January 14, 2013

Ursula Middel Technical Manager

KEY-URS157 S11



575 Broad Hollow Road Melville, NY 11747

labs

tel 631.694.3040 fax 631.420.8436

#### SDG NARRATIVE FOR SEMIVOLATILE ORGANICS SAMPLES RECEIVED: 12/28/12 SDG #: KEY-URS157

For Samples:

HIMW-12S	HIMW-03D	HIMW-051
HIMW-12I	HIMW-03I	HIMW-05D
HIMW-03S	HIMW-05S	FB-122812

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

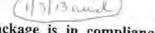
All Q. C. data and calibrations met the requirements of the method unless discussed below, and no problems were encountered with sample analyses. The following should be noted:

Sample HIMW-051 was analyzed as matrix spike/ matrix spike duplicate (MS/MSD). All percent recoveries for the lab fortified blanks (LFB) and recoveries and RPDs for the MS and MSD were within Q. C. limits.

Two samples, HIMW-05I and HIMW-05D, were reanalyzed at a dilution to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported.

Recovery for the surrogate 1,2-dichlorobenzene-d4 of 148% in sample HIMW-051DDL was above the Q. C. limit of 110%.

All CCC and SPCC calibration requirements were met. In the initial calibrations, average response factors were employed. All %D for targeted analytes in the continuous calibrations verification (CCV) were within the limit with the following exception: %D for benzo(b)fluoranthene in the CCV on 1/4/13 exceeded 15%, and the result in the LFB is regarded estimated and is flagged with the qualifier "Z".



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: January 14, 2013

Ursula Middel Technical Manager KEY-URS157 S12

5B SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS INC	Contract:
Lab Code: H2M Case No.: KE	Y-URS SAS No.: SDG No.: KEY-URS157
Lab File ID: <u>3\N55383.D</u>	DFTPP Injection Date: 01/03/13
Instrument ID: HP5973N	DFTPP Injection Time: 17:35

m/e	ION ABUNDANCE CRITERIA	<pre>% RELATIVE ABUNDANCE</pre>
51	30.0 - 60.0% of mass 198	
68	Less than 2% of mass 69	34.5
69	Mass 69 relative abundance	0.2 (0.4)1
70	Less than 2% of mass 69	42.9
127	40.0 - 60.0% of mass 198	0.1 (0.2)1
197	Less than 1% of mass 198	56.7
198	Base peak, 100% relative abundance	0.3
199	5.0 - 9.0% of mass 198	100.0
275		7.4
_	10.0 - 30.0% of mass 198	20.6
365	Greater than 1% of mass 198	3.0
441	Present, but less than mass 443	7,8
442	40.0 - 110.0% of mass 198	50.7
443	17.0 - 23.0% of mass 442	10.7.1
Value	is % mass 69 2-Value is % r	8.7 (17.1)2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE	TIME ANALYZED
01	SSTD025	SSTD025	3\N55384.D	01/03/13	
02	MB-37915	MB-37915	W55388R.D	01/03/13	17:55
03	LFB-37915	LFB-37915	W55389R.D	01/03/13	20:18
04	HIMW-12S	1212D60-001B	3\N55392.D	01/03/13	20:49
05	HIMW-12I	1212D60-002B	3W55393.D	01/03/13	22:23
06	HIMW-03S	1212D60-003B	3\N55394.D		22:53
07	HIMW-03D	1212D60-004B	3\N55395.D	01/03/13	23:24
38	HIMW-03I	1212D60-005B	3\N55396.D	01/03/13	23:55
19	HIMW-05S	1212D60-006B	3\N55397.D	01/04/13	0:25
LO	HIMW-05I	1212D60-007B		01/04/13	0:56
1	HIMW-05IMS	1212D60-007BMS	3\N55398.D	01/04/13	1:26
12	HIMW-05IMSD	1212D60-0078MSD	3\N55399.D	01/04/13	1:57
13	HIMW-05D		3\N55400.D	01/04/13	2:28
4	FB-122812	1212D60-008B	3\N55401.D	01/04/13	2:58
	10-122012	1212D60-009B	3\N55402.D	01/04/13	3:29

KEY-URS157 B8

FORM V SV

## 7C SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	H2M LABS INC			Contrac	t:		
Lab Code:	H2M Cas	se No.:	KEY-URS	SAS No.:		SDG No.:	KEY-URS157
Instrument	ID: <u>HP5973N</u>		Calibrat	ion Date:	1/3/201	3 Time:	17:55
Lab File ID:	3\N55384.D			Init, Calib	Date(s):	11/13/12	11/13/12
EPA Sample N	No. (SSTD050##)	: SST	D025	Init. Calib	. Times:	14:22	19:15
GC Column:	Rxi-5SILMS		D: 0.25	(mm)			

COMPOUND		1.7.	MIN	15.5	MAX
	RRF	RRF50	RRF	%D	8D
Naphthalene	1.137	1.190		4.6	
2-Methylnaphthalene	0.754	0.781		3.6	
Acenaphthylene	2.010	2.042		1.6	-
Acenaphthene	1.301	1.352		3.9	20.0
Fluorene	1.402	1.435		2.4	20.0
Phenanthrene	1.248	1.276		2.3	-
Anthracene	1.299	1.295		-0.3	
Fluoranthene	1.242	1.296		4.3	20.0
Pyrene	1.587	1.661	-	4.7	20.0
Benzo(a)anthracene	1.351	1,372		1.5	-
Chrysene	1.263	1.289		2.1	
Benzo(b)fluoranthene	1.985	2.388		20.3	
Benzo(k)fluoranthene	1.770	1.823		3.0	
Benzo(a)pyrene	1.785	1.975		10.7	20.0
Indeno(1,2,3-cd)pyrene	2.000	1.978			20.0
Dibenzo(a,h)anthracene	1.653	1.667		-1.1	
Benzo(g,h,i)perylene	1.701	1.618		-4.9	

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV- 1

## **APPENDIX B**

# OXYGEN SYSTEM OPERATION & MAINTENANCE MEASUREMENTS

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	13 Su ~9 ~7	2012 815 0° F 0° F 0° F e Ryan	- - - - -							
	0 <sub>2</sub> Ge	enerator (A	irSep)				Compressor	<mark>. (Kaesar Rota</mark>	<mark>ry Screv</mark>	v)	
Hours			3,522.7	-	Compressor 7	Fank *			110		(psi)
Feed Air Pressure *			105	(psi)		(rea	idings below	are made from	control p	oanel)	
Cycle Pressure *			60	_(psi)	Delivery Air Element Outl	et Temperat	ure		111 187		(psi) (oF)
Oxygen Receiver Pressu	re *			110 (psi)	Running Hou Loading Hou				4,216		(hours) (hours)
Oxygen Purity * maximum reading during loa	ading cycle		95.9	(percent)	* maximum read	ling during load	ling cycle				
T	njection Bank 1			O <sub>2</sub> Inject	ion System #1 Injection Bank 2				Injecti	on Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	32	OW-1-5S	67.3	30	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	30	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	35	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	45	30	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	40	30	OW-1-10S	54.6	40	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	30	30	OW-1-11S	54.1	45	15	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	50	15	OW-1-16D	82.5	OFF	OFF
	All injection point flows were adjusted to the target flow rate of ~30 scfh provided t Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were						er than the press	ures provided in th	e hydrosta	tic tables prepar	ed by URS

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		7/3/201	2
				O <sub>2</sub> Injectio	on System #1						
	Injection Bank 4	1			Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	20	15	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	25	12
OW-1-14S	52.7	25	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	30	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	25	12
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	40	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	25	14
OW-1-19S	49.7	45	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	14
OW-1-20S	49.3	40	15	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	25	14
]	Injection Bank	7			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	28	OW-1-29S	48.5	30	13	OW-1-33D	83.2	40	30
OW-1-26D	78.1	40	29	OW-1-30S	48.8	20	13	OW-1-34D	84.5	35	31
OW-1-27D	77.9	40	29	OW-1-31S	49.3	20	13	OW-1-35D	85.0	50	27
OW-1-28D	78.0	35	28	OW-1-32S	49.3	30	12	OW-1-36D	85.0	25	30
OW-1-29D	78.4	35	27	OW-1-33S	49.7	25	13	OW-1-37D	84.0	30	30
OW-1-30D	79.0	30	33	OW-1-34S	50.1	25	13	OW-1-38D	82.0	40	34
OW-1-31D	80.5	50	27	OW-1-35S	50.3	30	13	OW-1-39D	78.0	25	27
OW-1-32D	81.6	25	29	OW-1-36S	50.3	30	13	OW-1-40D	76.0	OFF	OFF
	on point flows w		the target flow	rate of ~30 scfh provided that th	ne pressure reading	g was no greate	r than the press	ures provided in the	e hydrosta	ic tables prepar	ed by URS
								Date:		7/3/201	2
											2

\_\_\_\_\_

#### SYSTEM #1

						D <sub>2</sub> Injectio	on System #1								
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12			
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi		
OW-1-37	'S	50.5	20	13	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF		
OW-1-38	s	50.6	30	13	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	OW-1-43       67.4       OFF         OW-1-44       66.6       29         OW-1-51R       60.6       30         OW-1-52       59.3       30         OW-1-53       60.0       30         OW-1-54       60.0       30         OW-1-54       60.0       30         OW-1-54       60.0       30				
OW-1-39	S	50.7	40	14	OW-1-4	45	65.7	25	20	OW-1-51R	60.6	30	17		
OW-1-40	)S	51.1	25	13	OW-1-4	46	64.3	30	18	OW-1-52	59.3	30	16		
OW-1-4	S	51.5	15	15	OW-1-4	47	63.4	25	18	OW-1-53	60.0	30	17		
OW-1-42	S	51.3	25	13	OW-1-4	48	62.5	30	18	OW-1-54	60.0	30	16		
					OW-1-4	19	61.5	20	18						
					OW-1-5	50	61.0	35	17						
Comments:					ank #11 was set at o	6 minutes.	ne pressure reading on System #2	g was no greate	r than the press	ares provided in the	e hydrosta	tic tables prepare	d by URS		
	Mon	itoring Points	Log			Mo	nitoring Points L	.og			Monitori	ng 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) Top		
MP-1-1D	24.42	20.9	2.50	0	MP-1-5	24.07	20.9	2.52	0	MP-1-11	)	2.06	2.69		
MP-1-1S	24.56	32.8	2.29	0	MP-1-6	16.54	20.9	2.41	0	MP-1-21	)	2.35	3.43		
MP-1-2D	18.60	19.2	1.71	0	MP-1-7	19.81	20.9	2.06	0	MP-1-31	)	2.88	3.18		
MP-1-2S	18.98	33.8	3.38	0.4	MP-1-8	20.83	20.1	2.87	0	MP-1-41	)	2.73	3.58		
MP-1-3D	16.73	20.9	2.63	0											
MP-1-3S	16.75	26.7	3.31	0.2											
MP-1-4D	19.48	25.2	1.86	0.3											
MP-1-4S	19.29	24.8	2.97	2.1											
Comments:					-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-	1-3D (79 f	eet), MP-1-4S (5	3 feet), MP-1-		

## SYSTEM #1

		Date: 7/3/2012
	OPERATIONAL NOTES	
GA5 Air Compressor		
1) Oil L	evel Checked with system unloaded* Yes X load system, wait until Delivery Air Pressure is less than 9 psi	No
2) Oil L	Level with system unloaded Low (red) X Normal (green)	High (orange)
3) Oil ac	dded Yes X No	
<ol> <li>4) Oil cl</li> <li>5) Oil fi</li> </ol>	hanged         Yes         No         X           ilter changed         Yes         No         X	
6) Air fi	ilter Changed Yes No X	—
,	eparator changed         Yes         NoX           ninal strips checked         Yes         NoX	
AS-80 O <sub>2</sub> Generator		
	lter changed Yes No X	
2) Coale	escing changed Yes No X	_
	GENERAL SYSTEM NOTES	
<u>Trailer</u>		
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	
5)	Visitors	
	vities such as any alarm/shutdowns, sampling, maintenance, material , oil/filter/gasket and/or any other abnormal operating conditions:	
-	2012, Systematic was on-site to install the new AC unit inside the shed. In addition, the dear	d bolt on the shed was repaired and the doors were adjusted so th
	loat on water bowl #1. Soaked up oil inside oil water separator with pads for disposal. Low e settings on newly installed AC unit. Wiped down all equipment and cleaned up all garbage	
Electric Meter # 96-9	934-323 tied into Pole #4	
Action Items:		

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	berature:	13 Su ~9: ~7:	/2012 814 5° F 5° F 5° F 9 Ryan								
	O <sub>2</sub> Ge	<mark>enerator (A</mark> i	irSep)				Compressor	<mark>' (Kaesar Rota</mark>	r <mark>y Screw</mark>	v)	
Hours			3,628.9	-	Compressor T	ſank *			110		(psi)
Feed Air Pressure *			105	(psi)		(rea	dings below	are made from	control p	oanel)	
Cycle Pressure *			70	(psi)	Delivery Air Element Outle	et Temperat	ure		111 126		(psi) (oF)
Oxygen Receiver Pressu	re *			110 (psi)	Running Hou Loading Hou				4,334 2,731		(hours) (hours)
Oxygen Purity * maximum reading during loa	ading cycle		97.8	(percent)	* maximum read	ling during load	ling cycle				
Т	njection Bank 1			O <sub>2</sub> Inject	ion System #1 Injection Bank 2				Injecti	on Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	40	32	OW-1-5S	67.3	35	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	40	30	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	30	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	45	30	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	30	OW-1-10S	54.6	40	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	25	30	OW-1-11S	54.1	40	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
	All injection point flows were adjusted to the target flow rate of ~30 scfh provided t Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were						er than the press	ures provided in the	e hydrostat	tic tables prepar	ed by URS

#### SYSTEM #1

				O <sub>2</sub> Injecti	on System #1						
	Injection Bank				Injection Bank 5		1			on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	14	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	35	15	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	30	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	40	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	45	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	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	35	13
OW-1-19S	49.7	45	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
OW-1-20S	49.3	50	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	40	14
Corporati	ion after collecting	g readings. Inje		rate of ~30 scfh provided that Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti	on System #1	g was no greate	r than the press	ures provided in the	-		ed by URS
mments: Corporati	ion after collecting	g readings. Inje	ection times at H	Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti	on System #1 Injection Bank 8		_		Injecti	on Bank 9	
nments: Corporati	ion after collecting	g readings. Inje		Bank #5 were set at 3 minutes.	on System #1	g was no greate	r than the press	ures provided in the	-		ed by URS
mments: Corporati	ion after collecting	g readings. Inje	ection times at H	Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti	on System #1 Injection Bank 8		_		Injecti	on Bank 9	- 
mments: Corporati	Injection Bank	g readings. Inje 7 scfh	ection times at H	Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti D	on System #1 Injection Bank 8 Depth	scfh	psi		Injecti Depth	on Bank 9 scfh	psi
ID OW-1-25D	Injection Bank 7	g readings. Inje 7 scfh 40	ection times at F	Bank #5 were set at 3 minutes. O2 Injecti ID OW-1-298	on System #1 Injection Bank 8 Depth 48.5	scfh 40	<b>psi</b> 13	ID OW-1-33D	Injecti Depth 83.2	on Bank 9 scfh 40	<b>psi</b> 30
ID OW-1-26D	Injection Bank 7 Depth 78.1 78.1	g readings. Inje 7 8 40 50	ection times at B psi 28 27	Bank #5 were set at 3 minutes. O2 Injecti ID OW-1-29S OW-1-30S	on System #1 Injection Bank 8 Depth 48.5 48.8	scfh 40 30	<b>psi</b> 13 13	0W-1-33D 0W-1-34D	Injecti Depth 83.2 84.5	on Bank 9 scfh 40 40	<b>psi</b> 30 31
ID OW-1-25D OW-1-26D OW-1-27D	Injection Bank 7 Depth 78.1 78.1 77.9	g readings. Injo 7 40 50 30	28 27 30	Bank #5 were set at 3 minutes.           O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S	on System #1 Injection Bank 8 Depth 48.5 48.8 49.3	scfh 40 30 30	<b>psi</b> 13 13 13	0W-1-33D 0W-1-34D 0W-1-35D	Injecti           Depth           83.2           84.5           85.0	on Bank 9 scfh 40 40 50	<b>psi</b> 30 31 30
mments: Corporati	Injection Bank 7 Depth 78.1 78.1 77.9 78.0	g readings. Injo 7 <b>scfh</b> 40 50 30 30	psi           28         27           30         28	O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S	On System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3	scfh 40 30 30 30	<b>psi</b> 13 13 13 13	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D	Injecti           Depth           83.2           84.5           85.0           85.0	on Bank 9 scfh 40 40 50 35	<b>psi</b> 30 31 30 30
ID         Owenerstein           0W-1-25D         0W-1-25D           0W-1-26D         0W-1-27D           0W-1-28D         0W-1-29D	Injection Bank 7           Injection Bank 7           Depth           78.1           78.1           77.9           78.0           78.4	g readings. Injo	psi           28         27           30         28           28         28           28         28	O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S	on System #1 Injection Bank 8 Depth 48.5 48.8 49.3 49.3 49.3	scfh 40 30 30 30 30	<b>psi</b> 13 13 13 13 13 14	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0	on Bank 9 scfh 40 40 50 35 40	psi           30           31           30           30           29
ID         Owener           0W-1-25D         0W-1-25D           0W-1-26D         0W-1-27D           0W-1-27D         0W-1-28D           0W-1-29D         0W-1-30D	Injection Bank           Injection Bank           Depth           78.1           78.1           77.9           78.0           78.4           79.0	g readings. Injo 7 7 8 6 40 50 30 30 30 40	psi           28         27           30         28           28         28           29         29	O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S	on System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.7           50.1	sefh 40 30 30 30 30 40	psi           13           13           13           13           13           13           13           13           13           13           13           13           13           13           13           14           13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0	on Bank 9 sefh 40 40 50 35 40 50	psi           30           31           30           29           30           29           30           28
ID         Corporati           ID         0W-1-25D           OW-1-26D         0W-1-26D           OW-1-27D         0W-1-27D           OW-1-28D         0W-1-29D           OW-1-30D         0W-1-31D           OW-1-32D         All injecti	Injection Bank 7           Injection Bank 7           Depth           78.1           78.1           77.9           78.0           78.4           79.0           80.5           81.6	g readings. Injo 7 <b>scfh</b> 40 50 30 30 30 40 45 40 ere adjusted to	28 27 30 28 28 28 28 28 29 29 29 29	O2 Injecti           O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-33S           OW-1-35S	on System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	sefh           40           30	psi           13           13           13           13           13           13           13           13           13           13           13           13           14           13           13           13           13           13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 sefh 40 40 50 35 40 50 30 0FF	psi           30           31           30           31           30           29           30           29           30           28           OFF

#### SYSTEM #1

					(	<b>D<sub>2</sub> Injectio</b>	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3	7S	50.5	40	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-3	8S	50.6	40	13	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	40	18
OW-1-3	9S	50.7	50	13	OW-1-4	45	65.7	30	20	OW-1-51R	60.6	35	17
OW-1-4	0S	51.1	30	13	OW-1-4	46	64.3	40	18	OW-1-52	59.3	50	18
OW-1-4	15	51.5	30	14	OW-1-4	47	63.4	30	18	OW-1-53	60.0	30	17
OW-1-42	2 <b>S</b>	51.3	30	13	OW-1-4	48	62.5	35	18	OW-1-54	60.0	30	17
					OW-1-4	19	61.5	30	17				
					OW-1-5	50	61.0	30	18				
	Mon	itoring Points 1	Log		(		on System #2 nitoring Points L	.og			Monitori	ng 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	24.62	20.9	2.27	0	MP-1-5	24.26	20.9	2.94	11.4	MP-1-1D	)	1.84	2.63
MP-1-1S	24.79	40.0	2.46	0	MP-1-6	16.76	20.9	2.51	0	MP-1-2D	)	2.26	2.56
MP-1-2D	18.80	19.9	1.57	0.6	MP-1-7	20.05	20.6	1.77	0	MP-1-3D	)	2.68	2.75
MP-1-2S	19.18	32.4	2.71	0	MP-1-8	21.10	20.9	2.75	0.3	MP-1-4D	)	2.59	3.67
MP-1-3D	16.98	21.1	2.43	0									
MP-1-3S	16.98	21.2	3.54	0									
MP-1-4D	19.65	21.9	2.45	0.9									
MP-1-4S	19.53	21.7	2.87	0									
omments:					-1S (66 feet), MP- (64 feet) and MP-			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-1	1-3D (79 f	eet), MP-1-4S (5	3 feet), MP-

## SYSTEM #1

						Date:	7/16/2012
			0	PERATIONAL N	OTES		
GA5 Air C	ompressor						
		l Checked with system u	inloaded*		Yes X	No	
	* Unload	l system, wait until Deli	very Air Pressure is less than	9 psi			
	2) Oil Leve	l with system unloaded	•				
		Low (red	l)	Normal (green)	Х	High (orange)	
	3) Oil adde	d	Yes		No X		
	4) Oil chan	ged	Yes	-	No X	-	
	5) Oil filter	changed	Yes	-	No X	_	
	6) Air filter	Changed	Yes	-	No X	_	
	7) Oil separ	rator changed	Yes	-	No X	-	
	8) Termina	l strips checked	Yes X	-	No	-	
AS-80 O <sub>2</sub> (	Generator						
<u></u>	1) Prefilter	changed	Yes		No X		
	2) Coalesci		Yes	-	No X	-	
	_, _, _,			-			
			GEN	ERAL SYSTEM	I NOTES		
<u>Frailer</u>							
	1)	Performed general hou	sekeeping (i.e. sweep, collect	trach incide and o	ut etc.)		
	1)	r enformed general nou	sekeeping (i.e. sweep, concer	trash hiside and o	Yes X	No	
						N0	
	2)	Abnormal conditions of	bserved (e.g. vandalism				
	_)		osori tod (eigi tandansin				
	3)	Other major activities	completed				
	,	5	·				
	4)	Supplies needed					
	,	II					
	5)	Visitors					
Record ro	utine activiti	es such as any alarm/sh	utdowns, sampling, mainter	nance, material			
			y other abnormal operating				
-		-					
On Thursd	ay, July 5, 20	12, Mike Ryan replaced	the tip seals in the booster pu	mp. All fittings o	n the pump were g	reased and put back together. A s	mall oil leak was observed at
						was replaced and the system was	
				-	•	· ·	
Soaked up	oil inside oil	water separator with pad	s for disposal. Wiped down a	all equipment and	cleaned up all gart	bage & leaves from around fence a	reas. Utilized weed whacker
and low me	ower to cut do	own weeds along the fen	ce and gates. Removed dead	tree branches that	fell into fence area	a. Sprayed bug spray around the s	hed due to ants getting into sh
Electric Me	eter # 96-934-	323 tied into Pole #4					
Action Ite	ms:						

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	Time:     1255       Veather:     Sunny       r Temperature:     ~85° F       iler Temperature:     ~72° F       formed By:     Mike Ryan											
	0 <sub>2</sub> Ge	enerator (Ai	irSep)				<b>Compressor</b>	<mark>' (Kaesar Rota</mark>	<mark>ry Screw</mark>	7)		
Hours			3,748.7		Compressor Tank *							
Feed Air Pressure *			115	(psi)	(readings below are made from control panel)							
				-	Delivery Air				113		(psi)	
Cycle Pressure *			70	(psi)	Element Outle	et Temperati	ure		140		(oF)	
Oxygen Receiver Pressu	re *			110 (psi)	Running Hou Loading Hou				4,468 2,816		(hours) (hours)	
Oxygen Purity * maximum reading during los	ading cycle		88.2	(percent)	* maximum read	ing during load	ling cycle					
I	njection Bank 1			- 2 3	Injection Bank 2				Injecti	on Bank 3		
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi	
OW-1-1	95.5	35	31	OW-1-5S	67.3	40	18	OW-1-9D	88.5	OFF	OFF	
OW-1-2	96.5	35	29	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF	
OW-1-3	96.3	40	31	OW-1-7S	66.9	30	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	35	30	OW-1-9S	66.0	35	19	OW-1-13D	84.7	OFF	OFF	
OW-1-6D	92.4	30	30	OW-1-10S	54.6	35	13	OW-1-14D	84.1	OFF	OFF	
OW-1-7D	91.1	30	29	OW-1-11S	54.1	30	14	OW-1-15D	83.3	OFF	OFF	
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	40	15	OW-1-16D	82.5	OFF	OFF	
Comments: All injectio	on point flows we	ere adjusted to	the target flow	rate of ~30 scfh provided that		•						

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		7/31/20	12
				O <sub>2</sub> Injectio	on System #1						
]	Injection Bank 4	1			Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	30	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	40	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	12
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	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	35	13
OW-1-19S	49.7	40	12	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
OW-1-20S	49.3	40	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	40	14
]	Injection Bank 7	7			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	35	27	OW-1-29S	48.5	40	12	OW-1-33D	83.2	40	30
OW-1-26D	78.1	40	28	OW-1-30S	48.8	30	12	OW-1-34D	84.5	40	32
OW-1-27D	77.9	50	29	OW-1-31S	49.3	30	12	OW-1-35D	85.0	50	29
OW-1-28D	78.0	30	27	OW-1-32S	49.3	40	12	OW-1-36D	85.0	35	30
OW-1-29D	78.4	40	27	OW-1-33S	49.7	30	12	OW-1-37D	84.0	30	29
OW-1-30D	79.0	50	33	OW-1-34S	50.1	35	12	OW-1-38D	82.0	35	35
OW-1-31D	80.5	50	21	OW-1-35S	50.3	40	12	OW-1-39D	78.0	25	27
OW-1-32D	81.6	35	29	OW-1-36S	50.3	30	12	OW-1-40D	76.0	OFF	OFF
	on point flows w		the target flow	rate of ~30 scfh provided that th	ne pressure reading	g was no greate	r than the press	ures provided in the	e hydrosta	ic tables prepar	ed by URS
								Date:		7/31/20	12
											. 2

\_\_\_\_\_

#### SYSTEM #1

					(	D <sub>2</sub> Injection	on System #1						
	In	jection Bank 1	0			1	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37	7S	50.5	40	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38	3 <b>S</b>	50.6	40	13	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	30	19
OW-1-39	9S	50.7	50	13	OW-1-4	45	65.7	30	20	OW-1-51R	60.6	40	18
OW-1-40	)S	51.1	30	13	OW-1-4	46	64.3	30	18	OW-1-52	59.3	50	17
OW-1-4	IS	51.5	30	14	OW-1-4	47	63.4	35	18	OW-1-53	60.0	40	18
OW-1-42	2S	51.3	30	13	OW-1-4	48	62.5	35	18	OW-1-54	60.0	30	17
					OW-1-4	49	61.5	40	17				
					OW-1-5	50	61.0	30	17				
Comments:	Corporation	n after collecting	g readings. Inje		nk #11 was set at	6 minutes. <mark>)<sub>2</sub> Injectio</mark>	on System #2		r than the press	ures provided in the	•		d by URS
	Mon	itoring Points	Log			Mo	nitoring Points L	⊿og			Monitori	ng 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	24.93	20.4	2.23	0	MP-1-5	24.57	20.9	2.48	0	MP-1-1E	)	2.12	2.19
MP-1-1S	25.08	31.9	2.33	0.3	MP-1-6	17.07	20.9	2.34	0	MP-1-20	)	2.17	3.21
MP-1-2D	19.12	18.6	1.74	0	MP-1-7	20.36	20.9	1.92	0	MP-1-31	)	2.37	2.91
MP-1-2S	19.51	29.2	3.40	0	MP-1-8	21.40	30.8	2.51	0	MP-1-41	)	2.28	2.54
MP-1-3D	17.26	20.9	2.55	0									
MP-1-3S	17.30	24.5	3.27	0									
MP-1-4D	20.02	20.9	2.09	0.2									
MP-1-4S	19.83	20.9	2.94	0.2									
Comments:					-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-38 (49 feet), MP-	1-3D (79 f	eet), MP-1-4S (5	3 feet), MP-1-

## SYSTEM #1

						Date:	7/31/2012
				OPEDATIONAL	IOTES		
GA5 Air (	Compressor			OPERATIONAL N	UIES		
	1) Oil Leve * Unloa	el Checked with system unlo d system, wait until Deliver el with system unloaded		nan 9 psi	Yes X	No	
		nged r changed	Yes Yes Yes Yes Yes Yes	Normal (green)	X           No         X	High (orange)	
AS-80 O <sub>2</sub>	Generator 1) Prefilter 2) Coalesc	changed ing changed	Yes Yes		No <u>X</u> No <u>X</u>		
			G	ENERAL SYSTEM	I NOTES		
<u>Trailer</u>	1)	Performed general housek		lect trash inside and c	ut, etc.) Yes <u>X</u>	No	
	2)	Abnormal conditions obse	rved (e.g. vandalism				
	3)	Other major activities con	pleted				
	4)	Supplies needed					
	5)	Visitors					
transport Soaked up replaceme	ed off-site, oi oil inside oil nt later in the feter # 96-934	<b>Jes such as any alarm/shutd</b> <b>I/filter/gasket and/or any o</b> water separator with pads fo week. Wiped down all equi -323 tied into Pole #4	ther abnormal operators of the second s	ting conditions: gen level a little low.		ere is a bad valve in the oxygen gen reas.	erator and will isolate for

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	12 Su ~84 ~72	/2012 249 nny 4° F 2° F 2° F										
r enormed b		enerator (Ai	•	-			Commence	(Vesser Data)		-)			
	02 Ge	enerator (Al	irsep)				Compressor	<mark>· (Kaesar Rota</mark>	ry Screw	7)			
Hours			3,827.0		Compressor 7	`ank *			115		(psi)		
Feed Air Pressure *			110	(psi)		(rea	dings below	are made from	re made from control panel)				
					Delivery Air		-	(psi)					
Cycle Pressure *			60	(psi)	Element Outle	et Temperati	ure	151 (oF)					
Oxygen Receiver Pressu	re *			110 (psi)	Running Hou Loading Hou				4,556 (hours) 2,871 (hours)				
Oxygen Purity * maximum reading during log	ading cycle		96.9	(percent) O <sub>2</sub> Inject	* maximum read ion System #1	ing during load	ling cycle						
	njection Bank 1				Injection Bank 2				Injecti	on 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	35	18	OW-1-9D	88.5	OFF	OFF		
OW-1-2	96.5	30	29	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	30	17	OW-1-11D	86.1	OFF	OFF		
OW-1-4	95.0	35	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF		
OW-1-5D	93.9	30	29	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF		
OW-1-6D	92.4	40	30	OW-1-10S	54.6	35	13	OW-1-14D	84.1	OFF	OFF		
OW-1-7D	91.1	30	29	OW-1-11S	54.1	30	14	OW-1-15D	83.3	OFF	OFF		
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	15	OW-1-16D	82.5	OFF	OFF		
				rate of ~30 scfh provided that 3ank #1 and Bank #3 were set		g was no greate	er than the press	ures provided in th	OW-1-16D 82.5 OFF OF				

#### SYSTEM #1

								Date		8/10/20	12
				O <sub>2</sub> Injecti	on System #1						
	Injection Bank 4	4			Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	30	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	40	12
OW-1-15S	52.2	35	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	25	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	20	13
OW-1-19S	49.7	35	15	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
OW-1-20S	49.3	45	14	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	20	13
	Injection Bank 7	7			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	25	27	OW-1-29S	48.5	30	13	OW-1-33D	83.2	35	29
OW-1-26D	78.1	50	28	OW-1-308	48.8	30	13	OW-1-34D	84.5	30	31
OW-1-27D	77.9	50	28	OW-1-318	49.3	35	13	OW-1-35D	85.0	50	30
OW-1-28D	78.0	30	27	OW-1-328	49.3	30	12	OW-1-36D	85.0	30	30
OW-1-29D	78.4	30	27	OW-1-33S	49.7	40	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	40	38	OW-1-34S	50.1	35	13	OW-1-38D	82.0	60	36
OW-1-31D	80.5	40	26	OW-1-35S	50.3	30	13	OW-1-39D	78.0	25	27
OW-1-32D	81.6	30	29	OW-1-36S	50.3	25	13	OW-1-40D	76.0	OFF	OFF
	tion point flows w		the target flow	rate of ~30 scfh provided that t	he pressure readin	g was no greate	er than the press	ures provided in the	e hydrostat	ic tables prepar	ed by URS
								Date		8/10/20	12

#### SYSTEM #1

					(	D <sub>2</sub> Injectio	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37	7S	50.5	30	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38	3S	50.6	25	13	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	30	19
OW-1-39	9S	50.7	35	13	OW-1-4	45	65.7	35	20	OW-1-51R	60.6	40	17
OW-1-40	)S	51.1	25	13	OW-1-4	46	64.3	35	18	OW-1-52	59.3	50	17
OW-1-4	IS	51.5	25	13	OW-1-4	17	63.4	35	18	OW-1-53	60.0	50	17
OW-1-42	2S	51.3	30	13	OW-1-4	48	62.5	30	18	OW-1-54	60.0	40	17
	×				OW-1-4	19	61.5	30	17				
					OW-1-5	50	61.0	40	17				
Comments:	Corporation		g readings. Inje		ank #11 was set at	6 minutes. <mark>)<sub>2</sub> Injectio</mark>	on System #2 nitoring Points L			ures provided in the	•	ng Points Log	-
	Mon	Oxygen					Oxygen				Monitori		
ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID		DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	25.11	18.7	2.15	0	MP-1-5	24.76	20.1	2.46	0	MP-1-11	)	1.58	1.84
MP-1-1S	25.30	33.4	2.35	0.4	MP-1-6	17.25	20.9	2.43	0	MP-1-20	)	2.44	3.25
MP-1-2D	19.32	17.6	1.75	0.2	MP-1-7	20.53	20.9	2.77	0	MP-1-3E	)	2.62	3.16
MP-1-2S	19.73	24.3	3.40	0	MP-1-8	21.60	20.5	2.93	0	MP-1-40	)	2.63	3.03
MP-1-3D	17.45	20.9	2.34	0									
MP-1-3S	17.47	23.4	3.49	0.2									
MP-1-4D	20.22	21.5	2.10	0.4									
MP-1-4S	20.02	20.9	2.70	0									
Comments:					-1S (66 feet), MP- (64 feet) and MP-			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-	1-3D (79 f	Geet), MP-1-4S (5	3 feet), MP-1-

## SYSTEM #1

			Date:	8/10/2012
	OPERATIO	NAL NOTES		
GA5 Air Compressor				
1) Oil Level Checked with syste	em unloaded*	Yes X	No	
	Delivery Air Pressure is less than 9 psi	105 11		
2) Oil Level with system unload				
· · ·	(red) Normal (g	green) X	High (orange)	
3) Oil added	Yes	No X	8 (	
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 <sub>2</sub> Generator				
1) Prefilter changed	Yes	No X		
2) Coalescing changed	Yes	No X		
	GENERAL SY	STEM NOTES		
<u>`railer</u>				
1) Performed general	housekeeping (i.e. sweep, collect trash insid			
		Yes X	No	
2) Abnormal condition	ns observed (e.g. vandalism			
3) Other major activit	ies completed			
4) Supplies needed				
5) Visitors				
Decord norting activities such as any class	alabertal and a compliant and interesting and	tonial		
	n/shutdowns, sampling, maintenance, ma r any other abnormal operating condition			
				6 · D · · 14
	to determine why the oxygen level was low			
	t were dirty and needed to be cleaned. Clea		into system. Tested each valve for	or proper voltage and cycle
nd found to be functioning properly. Restai	t system and oxygen level was at 94%. Lef	t system running.		
August 10, 2012 Sooked up oil inside oil w	ater separator with pads for disposal. Found	lovygen level at 06% Wing	d down all againment and cleaned	up all garbaga & laavas fi
round fence areas. Flushed and cleaned A/0		i oxygen level at 90%. Wipe	a down an equipment and cleaned	i up all galbage & leaves li
round relice areas. Trushed and cleaned Are	, unit filter.			
Electric Meter # 96-934-323 tied into Pole #4	1			
Action Items:				

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Tem Performed B	perature:	rature: ~75° F										
	0 <sub>2</sub> Ge	enerator (Ai	irSep)				Compressor	<mark>. (Kaesar Rota</mark>	<mark>ry Screw</mark>	7)		
Hours			OFF		Compressor T	`ank *			(psi)			
Feed Air Pressure *			OFF	(psi)		(rea	dings below	are made from	are made from control panel)			
				-	Delivery Air			OFF (psi)				
Cycle Pressure *			OFF	(psi)	Element Outle	et Temperatu	ıre	OFF (oF)				
Oxygen Receiver Pressu	ire *			OFF (psi)	Running Hou Loading Hou				OFF OFF		(hours) (hours)	
Oxygen Purity * maximum reading during lo	bading cycle		OFF	(percent)	* maximum read	ing during load	ling cycle					
	Injection Bank 1			-2-3	Injection Bank 2				Injecti	on Bank 3		
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi	
OW-1-1	95.5	OFF	OFF	OW-1-5S	67.3	OFF	OFF	OW-1-9D	88.5	OFF	OFF	
OW-1-2	96.5	OFF	OFF	OW-1-6S	67.0	OFF	OFF	OW-1-10D	87.2	OFF	OFF	
OW-1-3	96.3	OFF	OFF	OW-1-7S	66.9	OFF	OFF	OW-1-11D	86.1	OFF	OFF	
OW-1-4	95.0	OFF	OFF	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF	
OW-1-5D	93.9	OFF	OFF	OW-1-9S	66.0	OFF	OFF	OW-1-13D	84.7	OFF	OFF	
		OFF	OFF	OW-1-10S	54.6	OFF	OFF	OW-1-14D	84.1	OFF	OFF	
OW-1-6D	92.4						1	OW-1-15D 83.3 OFF OFF				
OW-1-6D OW-1-7D	92.4	OFF	OFF	OW-1-11S	54.1	OFF	OFF	OW-1-15D	83.3	OFF	OFF	
		OFF	OFF OFF	OW-1-11S OW-1-12S	54.1 53.6	OFF OFF	OFF OFF	OW-1-15D OW-1-16D	83.3 82.5	OFF	OFF OFF	

#### SYSTEM #1

				O <sub>2</sub> Injecti	on System #1						
	Injection Bank 4	1	1		Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	OFF	OFF	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	OFF	OFF
OW-1-14S	52.7	OFF	OFF	OW-1-18D	78.3	OFF	OFF	OW-1-228	49.3	OFF	OFF
OW-1-15S	52.2	OFF	OFF	OW-1-19D	78.9	OFF	OFF	OW-1-238	48.8	OFF	OFF
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	OFF	OFF
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	OFF	OFF
OW-1-18S	50.2	OFF	OFF	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	OFF	OFF
OW-1-19S	49.7	OFF	OFF	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	OFF	OFF
OW-1-20S	49.3	OFF	OFF	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	OFF	OFF
				rate of ~30 scfh provided that t Bank #5 were set at 3 minutes.	-	g was no greate	r than the press	ures provided in the	e hydrostat	ic tables prepar	ed by URS
Corporati		g readings. Inje		Bank #5 were set at 3 minutes.	he pressure reading on System #1 Injection Bank 8	g was no greate	r than the press	ures provided in the		ic tables prepar	ed by URS
Corporati	ion after collecting	g readings. Inje		Bank #5 were set at 3 minutes.	on System #1	g was no greate	r than the press	ures provided in the			ed by URS
Corporati	ion after collecting	g readings. Inje	ection times at H	Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti	on System #1 Injection Bank 8				Injecti	on Bank 9	
Orporati	Injection Bank 7	g readings. Inje 7 scfh	ection times at H	Bank #5 were set at 3 minutes.	on System #1 Injection Bank 8 Depth	scfh	psi		Injecti Depth	on Bank 9 scfh	psi
OW-1-25D	Injection Bank 7	g readings. Inje 7 Scfh OFF	ection times at F	Bank #5 were set at 3 minutes. O2 Injecti ID OW-1-298	on System #1 Injection Bank 8 Depth 48.5	scfh OFF	psi OFF	ID OW-1-33D	Injecti Depth 83.2	on Bank 9 scfh OFF	psi OFF
Omments: Corporati	Injection Bank 7 Depth 78.1 78.1	g readings. Inje 7 Scfh OFF OFF	ection times at H	Bank #5 were set at 3 minutes. O2 Injecti ID OW-1-29S OW-1-30S	on System #1 Injection Bank 8 Depth 48.5 48.8	scfh OFF OFF	psi OFF OFF	ID OW-1-33D OW-1-34D	Injecti Depth 83.2 84.5	on Bank 9 scfh OFF OFF	OFF OFF
OW-1-27D	Injection Bank 7 Depth 78.1 78.1 77.9	g readings. Injo	ection times at B	Bank #5 were set at 3 minutes.           O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S	on System #1 Injection Bank 8 Depth 48.5 48.8 49.3	scfh OFF OFF OFF	psi OFF OFF OFF	0W-1-33D 0W-1-34D 0W-1-35D	Injecti           Depth           83.2           84.5           85.0	on Bank 9 scfh OFF OFF OFF	DFF OFF OFF
Omments: Corporati	Injection Bank 7 Depth 78.1 78.1 77.9 78.0	g readings. Injo 7 OFF OFF OFF OFF	off OFF OFF OFF OFF	O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S	On System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3	scfh OFF OFF OFF OFF	psi OFF OFF OFF OFF	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D	Injecti Depth 83.2 84.5 85.0 85.0	on Bank 9 scfh OFF OFF OFF OFF	psi OFF OFF OFF OFF
imments:         Corporati           ID         0W-1-25D           OW-1-26D         0W-1-27D           OW-1-28D         0W-1-29D	Injection Bank 7           Injection Bank 7           Depth           78.1           78.1           77.9           78.0           78.4	g readings. Injo	ection times at H	O2 Injecti           02 Injecti           00	System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.7	scfh OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0	on Bank 9 scfh OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF
imments:         Corporati           ID         ID           OW-1-25D         OW-1-26D           OW-1-26D         OW-1-27D           OW-1-28D         OW-1-28D           OW-1-29D         OW-1-30D	Injection Bank 7           Injection Bank 7           Depth           78.1           78.1           77.9           78.0           78.4           79.0	g readings. Injo	ection times at H	O2 Injecti           02 Injecti           00	Jujection Bank 8           Depth           48.5           48.8           49.3           49.7           50.1	sefh OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D           0W-1-37D           0W-1-38D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0	on Bank 9 scfh OFF OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF
Omments: Corporati ID OW-1-25D OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D OW-1-30D OW-1-31D OW-1-31D	Injection Bank 7           Injection Bank 7           Depth           78.1           78.1           77.9           78.0           78.4           79.0           80.5           81.6	g readings. Injo	ection times at I psi OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	O2 Injecti           O2 Injecti           ID           OW-1-295           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S	System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	sefh OFF OFF OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF OFF OFF	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 Scfh OFF OFF OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF OFF OFF
OWMENTS: Corporati Corporati ID OW-1-25D OW-1-26D OW-1-26D OW-1-27D OW-1-28D OW-1-29D OW-1-30D OW-1-31D OW-1-32D All inject	Injection Bank 7           Injection Bank 7           Depth           78.1           78.1           78.1           78.1           78.2           78.0           78.4           79.0           80.5           81.6	g readings. Injo	ection times at I psi OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Og         Injecti           Og         Injecti           ID         OW-1-295           OW-1-30S         OW-1-30S           OW-1-31S         OW-1-31S           OW-1-32S         OW-1-33S           OW-1-34S         OW-1-34S           OW-1-35S         OW-1-36S	System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	sefh OFF OFF OFF OFF OFF OFF OFF	psi OFF OFF OFF OFF OFF OFF OFF	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 Scfh OFF OFF OFF OFF OFF OFF OFF	psi       OFF       OFF       OFF       OFF       OFF       OFF       OFF       OFF       OFF       OFF

#### SYSTEM #1

					C	D <sub>2</sub> Injectio	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3	7S	50.5	OFF	OFF	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-3	3S	50.6	OFF	OFF	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	OFF	OFF
OW-1-39	9S	50.7	OFF	OFF	OW-1-4	15	65.7	OFF	OFF	OW-1-51R	60.6	OFF	OFF
OW-1-4	)S	51.1	OFF	OFF	OW-1-4	16	64.3	OFF	OFF	OW-1-52	59.3	OFF	OFF
OW-1-4	IS	51.5	OFF	OFF	OW-1-4	17	63.4	OFF	OFF	OW-1-53	60.0	OFF	OFF
OW-1-4/	28	51.3	OFF	OFF	OW-1-4	48	62.5	OFF	OFF	OW-1-54	60.0	OFF	OFF
					OW-1-4	19	61.5	OFF	OFF				
					OW-1-5	50	61.0	OFF	OFF				
Comments:					ank #11 was set at	6 minutes.	ne pressure reading	g was no greate	r than the press	ures provided in the	e hydrosta	tic tables prepare	d by URS
	Mon	itoring Points	Log			Mo	nitoring Points L	.og			Monitori	ng 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	25.46	20.9	2.41	0	MP-1-5	25.12	20.9	2.33	0	MP-1-1D	)	1.80	1.68
MP-1-1S	25.63	22.2	2.42	0	MP-1-6	17.60	17.2	2.26	0.2	MP-1-2D	)	2.45	3.01
MP-1-2D	19.64	20.9	1.94	0	MP-1-7	20.89	20.7	2.11	0	MP-1-3E	)	2.02	1.91
MP-1-2S	20.02	22.9	2.71	0	MP-1-8	21.94	20.9	2.38	0	MP-1-4D	)	2.61	3.15
MP-1-3D	17.80	21.9	2.21	0									
MP-1-3S	17.83	25.9	3.11	0									
MP-1-4D	20.57	21.7	1.72	0									
MP-1-4S	20.37	21.6	2.31	0.1									
Comments:					-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-1	1-3D (79 f	eet), MP-1-4S (5	3 feet), MP-1-

## SYSTEM #1

						Date:	9/1/2012
				<b>OPERATIONAL</b>	NOTES		
GA5 Air Co	ompressor						
	1) Oil Lev * Unloa	el Checked with system unle d system, wait until Deliver el with system unloaded		an 9 psi	Yes	No	
	2) 01 20	Low (red)		Normal (green)		High (orange)	
	3) Oil adde		Yes		No		
	<ol> <li>4) Oil char</li> <li>5) Oil filte</li> </ol>		Yes Yes		No	—	
	6) Air filte		Yes		No No	_	
	,	rator changed	Yes		No	_	
	8) Termina	al strips checked	Yes Yes Yes		No		
AS-80 O <sub>2</sub> O	Generator						
<u></u> -	1) Prefilter	changed	Yes		No		
	2) Coalesc	ing changed	Yes		No	—	
			GI	ENERAL SYSTEM	A NOTES		
<u>Trailer</u>	1)	Performed general housek	eeping (i.e. sweep, colle	ect trash inside and	out, etc.) Yes	No	
	2)	Abnormal conditions obse	erved (e.g. vandalism				
	3)	Other major activities con	npleted				
	4)	Supplies needed					
	5)	Visitors					
<b>transporte</b> As discusse	<b>d off-site, oi</b> ed with Jon S eter # 96-934	ies such as any alarm/shut l/filter/gasket and/or any o Sundquist on Thursday, Aug -323 tied into Pole #4	ther abnormal operati	ng conditions:	urs we collected m	ionitoring point readings to get a level wi	th the system off.

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	13 Su ~80 ~78	/2012 320 nny 0° F 8° F 2 Ryan	-					(Kaesar Rotary Screw)				
	0 <sub>2</sub> Ge	<mark>enerator (A</mark> i	irSep)				<b>Compressor</b>	<mark>' (Kaesar Rota</mark>	<mark>ry Screw</mark>	7)			
Hours			3,968.9		Compressor T	`ank *			(psi)				
Feed Air Pressure *			110	(psi)		(rea	dings below	re made from control panel)					
				-	Delivery Air			<u>109</u> (psi)					
Cycle Pressure *			65	(psi)	Element Outle	et Temperati	ure	174 (oF)					
Oxygen Receiver Pressu	re *			105 (psi)	Running Hou Loading Hou				4,714 2,971		(hours) (hours)		
Oxygen Purity * maximum reading during los	ading cycle		97.8	_(percent)	* maximum read	ing during load	ling cycle						
I	njection Bank 1				Injection Bank 2				Injecti	on Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi		
OW-1-1	95.5	30	31	OW-1-5S	67.3	30	18	OW-1-9D	88.5	OFF	OFF		
OW-1-2	96.5	25	30	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF		
OW-1-3	96.3	30	31	OW-1-78	66.9	25	19	OW-1-11D	86.1	OFF	OFF		
OW-1-4	95.0	30	30	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF		
OW-1-5D	93.9	30	29	OW-1-9S	66.0	20	19	OW-1-13D	84.7	OFF	OFF		
OW-1-6D	92.4	30	29	OW-1-10S	54.6	25	13	OW-1-14D	84.1	OFF	OFF		
OW-1-7D	91.1	25	29	OW-1-11S	54.1	30	14	OW-1-15D	83.3	OFF	OFF		
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	35	14	OW-1-16D	82.5	OFF	OFF		
				rate of ~30 scfh provided that Bank #1 and Bank #3 were set		g was no greate	er than the press	ures provided in th	OW-1-16D     82.5     OFF     OFF       ss provided in the hydrostatic tables prepared by URS				

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		9/13/20	12
				O <sub>2</sub> Injectio	on System #1						
	Injection Bank 4	4	1		Injection Bank 5					on 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	30	15	OW-1-18D	78.3	OFF	OFF	OW-1-228	49.3	30	11
OW-1-15S	52.2	30	14	OW-1-19D	78.9	OFF	OFF	OW-1-238	48.8	20	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	30	12
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	38	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	35	15	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	13
OW-1-20S	49.3	45	14	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	25	13
	Injection Bank 7	7			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	35	28	OW-1-29S	48.5	20	12	OW-1-33D	83.2	40	29
OW-1-26D	78.1	45	30	OW-1-30S	48.8	20	13	OW-1-34D	84.5	35	31
OW-1-27D	77.9	35	29	OW-1-31S	49.3	25	13	OW-1-35D	85.0	60	29
OW-1-28D	78.0	40	28	OW-1-32S	49.3	30	12	OW-1-36D	85.0	30	30
OW-1-29D	78.4	30	27	OW-1-33S	49.7	20	13	OW-1-37D	84.0	30	29
OW-1-29D OW-1-30D	78.4	30 30	27	OW-1-338 	49.7 50.1	20 30	13 13	OW-1-37D OW-1-38D	84.0 82.0	30 60	29 27
OW-1-30D	79.0	30	32	OW-1-34S	50.1	30	13	OW-1-38D	82.0	60	27
OW-1-30D OW-1-31D OW-1-32D All inject	79.0 80.5 81.6	30 35 20 ere adjusted to	32 19 28	OW-1-34S OW-1-35S	50.1 50.3 50.3	30 25 20	13 13 13	OW-1-38D OW-1-39D OW-1-40D	82.0 78.0 76.0	60 20 OFF	27 27 OFF
OW-1-30D OW-1-31D OW-1-32D All inject	79.0 80.5 81.6	30 35 20 ere adjusted to	32 19 28	OW-1-34S OW-1-35S OW-1-36S	50.1 50.3 50.3	30 25 20	13 13 13	OW-1-38D OW-1-39D OW-1-40D	82.0 78.0 76.0	60 20 OFF	27 27 OFF ed by URS

\_\_\_\_

#### SYSTEM #1

					(	<b>D<sub>2</sub> Injectio</b>	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37	7S	50.5	40	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38	3S	50.6	25	13	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	30	18
OW-1-39	9S	50.7	40	12	OW-1-4	45	65.7	35	19	OW-1-51R	60.6	30	17
OW-1-40	)S	51.1	25	13	OW-1-4	16	64.3	30	14	OW-1-52	59.3	55	13
OW-1-4	IS	51.5	20	13	OW-1-4	17	63.4	30	17	OW-1-53	60.0	35	16
OW-1-42	28	51.3	30	13	OW-1-4	48	62.5	30	18	OW-1-54	60.0	35	16
					OW-1-4	19	61.5	25	18				
					OW-1-5	50	61.0	30	14				
Comments:	Corporation	n after collecting	g readings. Inje		rate of ~30 scfh pro ank #11 was set at (	6 minutes. <mark>)<sub>2</sub> Injectio</mark>	on System #2		-		-		-
	Mon	itoring Points	Log			Mo	nitoring Points L Oxygen	.og			Monitori	ng Points Log	
ID	DTW	Oxygen Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID		DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	25.66	20.1	2.43	0	MP-1-5	25.32	17.3	2.87	0	MP-1-1D	)	1.82	2.68
MP-1-1S	25.83	30.2	2.64	0	MP-1-6	17.77	21.7	2.63	0.3	MP-1-2D	)	2.45	3.76
MP-1-2D	19.86	20.7	1.69	0	MP-1-7	21.08	20.9	2.51	0	MP-1-3D	)	2.56	3.37
MP-1-2S	20.22	31.9	2.78	0.5	MP-1-8	22.13	20.9	2.50	0	MP-1-4D	)	2.84	3.83
MP-1-3D	17.98	22.2	3.13	0									
MP-1-3S	18.00	23.7	2.54	0									
MP-1-4D	20.78	22.4	1.93	0.4									
MP-1-4S	20.45	23.9	2.63	0									
Comments:					1-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-1	l-3D (79 f	eet), MP-1-4S (5	3 feet), MP-1-

## SYSTEM #1

								Date:	9/13/2012
			(	OPERATIONAL 1	NOTES				
A5 Air C	Compressor								
		el Checked with system u			Yes X	K	No		
			very Air Pressure is less than	n 9 psi					
	2) Oil Leve	el with system unloaded	、 、	<b>N 1</b> ( ) )		*	<b>TT</b> 1 /		
	<ol> <li>Oil adde</li> </ol>	Low (red	)Yes	Normal (green)	No X		High (ora	inge)	
	<ol> <li>4) Oil adde</li> <li>4) Oil chan</li> </ol>		Yes	_	No X No X				
	5) Oil filter	U U	Yes	_	No X				
	6) Air filter	U	Yes	_		X			
		rator changed	Yes	_	No X	X			
	8) Termina	l strips checked	Yes X		No				
S-80 O- (	Generator								
<u>J 00 0</u> 2	1) Prefilter	changed	Yes		No X	X			
	· ·	ing changed	Yes	_	No X	X			
				_					
			GE	NERAL SYSTEN	ANOTES				
ailer									
	1)	Performed general hous	sekeeping (i.e. sweep, colled	ct trash inside and		7		N.	
					Yes X	<u> </u>		No	
	2)	Abnormal conditions of	bserved (e.g. vandalism						
			. –						
	3)	Other major activities c	ompleted						
	4)	Supplies needed							
	4)	Supplies needed							
	5)	Visitors							
	,								
			utdowns, sampling, maint y other abnormal operatir						
-			compressor fault) was trigge	-	led to the site :	and found the	e oil level low i	n the compress	r Added new oil and
		arted system and left runr		fied. Wine respond		und round in		ii uie compisso	i. Hudded new on and
			6						
			compressor fault) was trigg						
			mperature inside the compre	essor was up to 400	<b>F</b> and that the	temperature	switch was not	functioning pro	operly. A warranty rej
ll was in	itiated with M	fatrix and Newterra.							
entember	6 2012 - D&	D Electric Motors respo	nded to the warranty repair	call initiated by M	atrix and Newt	terra Startec	l testing oil tem	perature probe	and found probe to be
			al wires through unit to the						
			functioning properly and lo						
aving.				U	1 70	e			×
otal dowr	ntime for alari	m code was 18 days.							
eptember	13, 2012 - Cl	hecked oil level in compr	essor and level was ok. Ch	anged fresh air filte	ers on doors.	Wiped down	all equipment a	und cleaned up	all garbage & leaves fr
ound fen						-r-= uo.01	pinein (		
		-323 tied into Pole #4							
ction Ite	ms:								

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	12 Clo ~65 ~70	/2012 251 oudy 5° F 0° F 2 Ryan								
Ferformed B			•		1						
	0 <sub>2</sub> Ge	enerator (Ai	irSep)				Compressor	<mark>· (Kaesar Rota</mark>	ry Screw	7)	
Hours			4,102.3		Compressor 7	`ank *			110		(psi)
Feed Air Pressure *			110	(psi)		(rea	dings below	are made from	-	oanel)	
Cycle Pressure *			70	(psi)	Delivery Air Element Outle	ot Tomperati	Iro		109 90		(psi) (oF)
Cycle I lessuie			/0	(hor)	Element Outle	. remperau			70		(01)
Oxygen Receiver Pressu	re *			95 (psi)	Running Hou Loading Hou				4,862 3,063		(hours) (hours)
Oxygen Purity * maximum reading during los			96.9	(percent) O <sub>2</sub> Inject	* maximum read ion System #1	ing during load	ling cycle				
	njection Bank 1				Injection Bank 2		1			on Bank 3	1
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	40	31	OW-1-5S	67.3	35	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	40	29	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	35	30	OW-1-7S	66.9	40	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	40	29	OW-1-9S	66.0	35	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	50	29	OW-1-10S	54.6	40	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	40	29	OW-1-11S	54.1	30	14	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	15	OW-1-16D	82.5	OFF	OFF
				rate of ~30 scfh provided that 3ank #1 and Bank #3 were set		g was no greate	er than the press	ures provided in th	e hydrostat	ic tables prepar	red by URS

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

					on System #1						
	Injection Bank 4				Injection Bank 5		1			on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	40	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OW-1-15S	52.2	35	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	40	13
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	40	13
OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	30	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	35	13
OW-1-19S	49.7	40	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	30	13
OW-1-20S	49.3	50	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	45	14
nments: Corporatio	on after collecting	g readings. Inje			on System #1	g was no greate	r than the press	ures provided in the	-		ed by URS
nments: Corporatio	on after collecting	g readings. Inje	ection times at H	Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti	on System #1 Injection Bank 8		_		Injecti	on Bank 9	
nments: Corporatio	on after collecting	g readings. Inje		Bank #5 were set at 3 minutes.	on System #1	g was no greate	r than the press	ures provided in the	-		ed by URS
nments: Corporatio	on after collecting	g readings. Inje	ection times at H	Bank #5 were set at 3 minutes. O <sub>2</sub> Injecti	on System #1 Injection Bank 8		_		Injecti	on Bank 9	
ID	on after collecting Injection Bank 7 Depth	g readings. Inje 7 scfh	ection times at F	Bank #5 were set at 3 minutes.	on System #1 Injection Bank 8 Depth	scfh	psi		Injecti Depth	on Bank 9 scfh	psi
ID OW-1-25D	on after collecting Injection Bank 7 Depth 78.1	g readings. Inje 7 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ection times at F	Bank #5 were set at 3 minutes. O2 Injecti ID OW-1-298	on System #1 Injection Bank 8 Depth 48.5	scfh 35	<b>psi</b> 12	ID OW-1-33D	Injecti Depth 83.2	on Bank 9 scfh 30	<b>psi</b> 29
ID OW-1-26D	on after collecting Injection Bank 7 Depth 78.1 78.1	g readings. Inje 7 40 70	psi 27 28	Bank #5 were set at 3 minutes. O2 Injecti ID OW-1-29S OW-1-30S	on System #1 Injection Bank 8 Depth 48.5 48.8	scfh 35 35	<b>psi</b> 12 13	0W-1-33D 0W-1-34D	Injecti Depth 83.2 84.5	on Bank 9 scfh 30 40	<b>psi</b> 29 31
ID OW-1-25D OW-1-26D OW-1-27D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9	g readings. Injo 7 40 70 60	ection times at B psi 27 28 29	Bank #5 were set at 3 minutes.           O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S	on System #1 Injection Bank 8 Depth 48.5 48.8 49.3	scfh 35 35 35	<b>psi</b> 12 13 13	0W-1-33D 0W-1-34D 0W-1-35D	Injecti           Depth           83.2           84.5           85.0	on Bank 9 scfh 30 40 60	29 31 29
ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0	g readings. Injo 7 <b>scfh</b> 40 70 60 40	psi 27 28 29 28	O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S	System #1       Injection Bank 8       Depth       48.5       48.8       49.3       49.3	scfh 35 35 35 30	<b>psi</b> 12 13 13 13	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D	Injecti           Depth           83.2           84.5           85.0           85.0	on Bank 9 scfh 30 40 60 30	29 31 29 30
Corporation Corporation ID OW-1-25D OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.4	g readings. Injo 7 <b>scfh</b> 40 70 60 40 35	27 28 29 28 26	O2 Injecti           02 Injecti           00	System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.7	scfh 35 35 35 30 40	<b>psi</b> 12 13 13 13 13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0	on Bank 9 scfh 30 40 60 30 30	29 31 29 30 29
nments:         Corporation           ID         ID           OW-1-25D         OW-1-26D           OW-1-26D         OW-1-27D           OW-1-28D         OW-1-29D           OW-1-30D         OW-1-30D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.4 79.0	g readings. Injo 7 40 40 60 40 35 50	27 28 29 28 26 38	O2 Injecti           02 Injecti           00	Junicition Bank 8           Depth           48.5           48.8           49.3           49.7           50.1	scfh 35 35 35 30 40 30	psi           12           13           13           13           13           13           13           13           13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0	on Bank 9 sefh 30 40 60 30 30 35	psi           29           31           29           30           29           30           29           30           29           30           29           30           29           30           29           30           29           33           28
nments:         Corporation           ID         ID           OW-1-25D         OW-1-26D           OW-1-26D         OW-1-27D           OW-1-27D         OW-1-28D           OW-1-29D         OW-1-30D           OW-1-31D         OW-1-32D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.0 78.4 79.0 80.5 81.6	g readings. Injo 7 <b>scfh</b> 40 70 60 40 35 50 50 40 ere adjusted to	27 28 29 28 26 38 21 29	O2 Injecti           O2 Injecti           ID           OW-1-295           OW-1-305           OW-1-315           OW-1-325           OW-1-335           OW-1-345           OW-1-355	System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	scfh           35           35           35           35           30           30           35           30           35           30           35           30           35           30	psi           12           13           13           13           13           13           14           14	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 sefh 30 40 60 30 30 30 35 35 0FF	psi           29           31           29           30           29           30           29           30           29           30           29           30           29           30           29           30           29           31           29           30           29           31           29           31           29           31           29           31           29           31           29           31           29           31           29           31           29           31           29           31           29           31           29           31           28           0FF

#### SYSTEM #1

					(	<b>D<sub>2</sub> Injectio</b>	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37	/S	50.5	40	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-38	3S	50.6	35	12	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	30	18
OW-1-39	ØS	50.7	50	12	OW-1-4	45	65.7	40	19	OW-1-51R	60.6	40	17
OW-1-40	)S	51.1	30	13	OW-1-4	16	64.3	30	18	OW-1-52	59.3	50	17
OW-1-4	S	51.5	40	13	OW-1-4	17	63.4	30	18	OW-1-53	60.0	40	17
OW-1-42	25	51.3	30	13	OW-1-4	48	62.5	30	18	OW-1-54	60.0	30	16
					OW-1-4	19	61.5	25	17				
					OW-1-5	50	61.0	40	17				
Comments:	Corporation	n after collecting	g readings. Inje		rate of ~30 scfh pro ank #11 was set at (	6 minutes. <mark>)<sub>2</sub> Injectio</mark>	on System #2				-		-
	Mon	itoring Points				Mo	nitoring Points L Oxygen				Monitori	ng Points Log	
ID	DTW	Oxygen Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID		DO (mg/L) Middle	DO (mg/L) Top
MP-1-1D	24.77	19.4	2.49	0	MP-1-5	25.43	16.7	2.26	0	MP-1-1E	)	1.91	2.07
MP-1-1S	25.92	29.7	2.55	0	MP-1-6	17.90	20.9	2.45	0.3	MP-1-2D	)	2.25	3.17
MP-1-2D	19.94	20.7	1.77	0	MP-1-7	21.15	18.9	1.96	0	MP-1-3D	)	2.76	3.52
MP-1-28	20.32	36.7	3.05	0.7	MP-1-8	22.17	19.6	2.52	0	MP-1-4D	)	2.22	3.25
MP-1-3D	18.10	19.1	2.94	0									
MP-1-3S	18.12	22.7	3.34	0.9									
MP-1-4D	20.85	18.9	1.83	0.4									
MP-1-4S	20.67	26.7	2.69	0									
Comments:					1-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-1	l-3D (79 f	Geet), MP-1-4S (5	3 feet), MP-1-

## SYSTEM #1

						Date:	9/28/2012
			<b>PERATIONAL N</b>	OTES			
GA5 Air Compressor			JI EKA HOIVAL I	OILS			
1) Oil Lev * Unloa	el Checked with system unload d system, wait until Delivery A el with system unloaded			Yes	X	No	
	nged r changed	X Yes X Yes Yes Yes Yes X	Normal (green) 	No No No No No No	X X X X X	High (orange)	
AS-80 O <sub>2</sub> Generator 1) Prefilter 2) Coalesc	r changed ing changed	Yes Yes	_	No No	X X		
		GE	NERAL SYSTEM	<b>NOTES</b>			
<u>Trailer</u> 1) 2)	Performed general housekeep		ct trash inside and c	ut, etc.) Yes	<u>X</u>	No	
3)	Other major activities compl	eted					
4)	Supplies needed						
5)	Visitors						
<b>transported off-site, oi</b> Found oil level in comp	up all garbage & leaves from a	er abnormal operation	ng conditions:	ain float stu	uck open. F	Replaced float and drained	separator cannister. Wiped down
Action Items:							

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	15 R: ~58 ~70	/2012 614 ain 8° F 0° F 0° F 2 Ryan	-							
	0 <sub>2</sub> Ge	<mark>enerator (A</mark> i	irSep)				<b>Compressor</b>	<mark> (Kaesar Rota</mark>	ry Screw	1)	
Hours			4,182.4	-	Compressor T	`ank *			110		(psi)
Feed Air Pressure *			120	(psi)		(rea	dings below	are made from	control p	anel)	
				-	Delivery Air				105		(psi)
Cycle Pressure *			60	(psi)	Element Outle	et Temperati	ure		176		(oF)
Oxygen Receiver Pressu	re *			110 (psi)	Running Hou Loading Hou				4,951 3,119		(hours) (hours)
Oxygen Purity * maximum reading during los	ading cycle		95.9	(percent)	* maximum read	ing during load	ling cycle				
I	njection Bank 1				Injection Bank 2				Injecti	on Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	31	OW-1-5S	67.3	30	18	OW-1-9D	88.5	OFF	OFF
OW-1-2	96.5	30	30	OW-1-6S	67.0	30	18	OW-1-10D	87.2	OFF	OFF
OW-1-3	96.3	30	30	OW-1-7S	66.9	35	19	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	29	OW-1-9S	66.0	30	19	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	30	29	OW-1-10S	54.6	30	12	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	30	29	OW-1-11S	54.1	30	13	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 Corporation	on point flows we	ere adjusted to	the target flow	rate of ~30 scfh provided that	the pressure reading	a was no greate	r than the proces	ures provided in th	a hydroetat	ic tables prepa	red by URS

#### SYSTEM #1

Corporation airee collecting readings. injection times at pain # 9 were set at 3 minutes.         OLY INTERSITY INT												
IDDeptiSeriepaiDPDPDPopmenDPMenmen0W-1-12853.12.81.30W-1-17079.50.FF0.FF0.FF0.W-1-2184.33.001.20W-1-1855.273.551.410W-1-18078.30.FF0.FF0.FF0.W-1-2284.9.33.001.20W-1-1955.223.001.310.W-1-19078.50.FF0.FF0.W-1-2284.8.43.001.20W-1-1985.180.FF0.FF0.FF0.FF0.FF0.W-1-2284.8.43.001.30W-1-1985.020.FF0.FF0.FF0.FF0.FF0.W-1-2864.8.43.001.30W-1-1885.023.050.FF0.FF0.FF0.FF0.W-1-2864.8.43.001.30W-1-1885.023.050.FF0.FF0.FF0.FF0.W-1-2864.8.43.01.30W-1-1894.9.30.FF0.W-1-2800.FF0.FF0.FF0.W-1-2864.8.33.01.30W-1-1894.9.30.FF0.W-1-2807.8.70.FF0.FF0.W-1-2864.8.33.01.30W-1-2054.9.31.030.W-1-2807.8.70.FF0.FF0.W-1-2864.8.30.01.30W-1-2054.9.30.9.10.W-1-2854.8.30.W-1-2854.8.30.01.30.W-1-2854.8.30.01					O <sub>2</sub> Inject	on System #1						
OW-1-12S         5.1         2.8         1.3         OW-1-17D         79.5         OFF         OFF         OW-1-21S         4.9.3         3.0         1.1           OW-1-14S         5.2.7         3.5         1.4         OW-1-18D         78.3         OFF         OFF         OW-1-22S         4.8.3         2.0         1.1           OW-1-15S         5.2.2         3.0         OFF         OW-1         OFF         OFF         OW-1-22S         4.8.8         2.5         1.1           OW-1-15S         5.1.8         OFF         OFF         OW-1         OFF         OFF         OFF         OW-1-22S         4.8.8         3.0         1.2           OW-1-15S         5.0.7         OFF         OFF         OW-1-22D         79.5         OFF         OFF         OW-1-22S         4.8.8         3.0         1.3           OW-1-15S         4.0.7         3.5         1.1         OW-1-22D         79.5         OFF         OFF         OW-1-22S         4.8.3         3.0         1.3           OW-1-15S         4.0.7         3.0         0.7         0.7         7.6         OFF         OW-1-25S         4.8.3         3.0         1.3           OW-1-15S         4.0.7         <		Injection Bank 4	L			Injection Bank 5				Injecti	on Bank 6	
And         And <th>ID</th> <th>Depth</th> <th>scfh</th> <th>psi</th> <th>ID</th> <th>Depth</th> <th>scfh</th> <th>psi</th> <th>ID</th> <th>Depth</th> <th>scfh</th> <th>psi</th>	ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
Number of the state of the	OW-1-13S	53.1	28	13	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
Andream         Andream <t< td=""><td>OW-1-14S</td><td>52.7</td><td>35</td><td>14</td><td>OW-1-18D</td><td>78.3</td><td>OFF</td><td>OFF</td><td>OW-1-22S</td><td>49.3</td><td>30</td><td>12</td></t<>	OW-1-14S	52.7	35	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	30	12
OM-175         OM-1         OM-1         OM-10         OM-10         OM-1         OM-10         O	OW-1-15S	52.2	30	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	25	11
operation         operation <t< td=""><td>OW-1-16SR</td><td>51.8</td><td>OFF</td><td>OFF</td><td>OW-1-20D</td><td>79.5</td><td>OFF</td><td>OFF</td><td>OW-1-24S</td><td>48.4</td><td>30</td><td>12</td></t<>	OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	30	12
OW-1-195         49.7         35         13         OW-1-23D         78.7         OFF         OFF         OW-1-28S         48.3         400         13           OW-1-205         49.3         40         13         OW-1-23D         78.7         OFF         OFF         OWF         OW-1-28S         48.3         400         13           OW-1-205         49.3         40         13         OW-1-23D         78.2         OFF         OFF         OVF         OVF-1-28S         48.3         400         13           Numerat:         All nicecton point flows were adjusted to trate of -30 sch provided mather bressure subs rote su	OW-1-17S	50.7	OFF	OFF	OW-1-21D	79.5	OFF	OFF	OW-1-25S	48.8	35	13
Normality         <	OW-1-18S	50.2	30	12	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	35	13
Image: Constraint of the constraint of the target flow rate of -30 sch provided hat the pressure reading was no greater than the pressures provided in the bytrostatic tables prepared by UKS         Output: The constraint of the target flow rate of -30 sch provided hat the pressure reading was no greater than the pressures provided in the bytrostatic tables prepared by UKS         Output: The constraint of the target flow rate of -30 sch provided hat the pressure reading was no greater than the pressures provided in the bytrostatic tables prepared by UKS         Depth Sech Post       The constraint of the target flow rate of -30 sch provided that the pressure reading was no greater than the pressures provided in the bytrostatic tables prepared by UKS         Output: The constraint of the target flow rate of -30 sch provided that the pressure reading was no greater than the pressures provided in the bytrostatic tables prepared by UKS         Depth Sech Post       Sech Post       Sech Post       The tables prepared by UKS         OW-1-25D       78.1       GO       2.28       OW-1-305       48.8       30       112       OW-1-34D       84.5       40.0       120         OW-1-25D       7.8       OW-1-32D       48.8       30       121       OW-1-34D       84.0 <t< td=""><td>OW-1-19S</td><td>49.7</td><td>35</td><td>13</td><td>OW-1-23D</td><td>78.7</td><td>OFF</td><td>OFF</td><td>OW-1-27S</td><td>48.3</td><td>40</td><td>13</td></t<>	OW-1-19S	49.7	35	13	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
Corporation under collecting readings. Ligiction times at Bank #5 were set at 3 minutes.         Open Subjection Bank 7         Open	OW-1-20S	49.3	40	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	40	13
OW-1-25D         78.1         30         27         OW-1-29S         48.5         20         12         OW-1-33D         83.2         35         29           OW-1-26D         78.1         50         28         OW-1-30S         48.8         30         13         OW-1-34D         84.5         40         30           OW-1-26D         78.1         50         28         OW-1-30S         48.8         30         13         OW-1-34D         84.5         40         30           OW-1-27D         77.9         35         28         OW-1-31S         49.3         30         12         OW-1-35D         85.0         50         27           OW-1-28D         78.0         25         28         OW-1-32S         49.3         40         12         OW-1-36D         85.0         30         29           OW-1-28D         78.4         30         27         OW-1-33S         49.7         30         12         OW-1-36D         85.0         30         29           OW-1-30D         79.0         45         33         OW-1-34S         50.1         30         12         OW-1-38D         82.0         60         32           OW-1-30D         79.0					Bank #5 were set at 3 minutes.	-	g was no greate	r than the press	ures provided in the	e hydrostat	ic tables prepar	ed by URS
OW-1-26D         78.1         50         28         OW-1-30S         48.8         30         13         OW-1-34D         84.5         40         30           OW-1-26D         77.9         35         28         OW-1-31S         49.3         30         12         OW-1-35D         85.0         50         27           OW-1-28D         78.0         25         28         OW-1-31S         49.3         30         12         OW-1-35D         85.0         50         27           OW-1-28D         78.0         25         28         OW-1-32S         49.3         40         12         OW-1-36D         85.0         30         29           OW-1-29D         78.4         30         27         OW-1-33S         49.7         30         12         OW-1-36D         85.0         30         29           OW-1-30D         79.0         45         33         OW-1-35S         50.1         30         12         OW-1-38D         82.0         660         32           OW-1-30D         80.5         20         28         OW-1-35S         50.3         30         13         OW-1-30D         76.0         OFF           OW-1-32D         81.6         50	omments: Corporati	on after collecting	g readings. Inje		Bank #5 were set at 3 minutes.	on System #1	g was no greate	r than the press	ures provided in the	-		ed by URS
OW-1-27D         77.9         35         28         OW-1-31S         49.3         30         12         OW-1-35D         85.0         50         27           OW-1-28D         78.0         25         28         OW-1-32S         49.3         40         12         OW-1-36D         85.0         30         29           OW-1-28D         78.0         25         28         OW-1-32S         49.3         40         12         OW-1-36D         85.0         30         29           OW-1-29D         78.4         30         27         OW-1-33S         49.7         30         12         OW-1-36D         84.0         30         29           OW-1-30D         79.0         45         33         OW-1-35S         50.1         30         12         OW-1-38D         82.0         600         32           OW-1-30D         79.0         45         33         OW-1-35S         50.3         30         13         OW-1-38D         82.0         600         32           OW-1-31D         80.5         20         28         OW-1-36S         50.3         30         13         OW-1-40D         76.0         OFF           OW-1-32D         81.6         50	omments: Corporati	on after collecting	g readings. Inje	ection times at H	Bank #5 were set at 3 minutes.	on System #1 Injection Bank 8				Injecti	on Bank 9	
OW-1-28D         78.0         25         28         OW-1-32S         49.3         40         12         OW-1-36D         85.0         30         29           OW-1-29D         78.4         30         27         OW-1-33S         49.7         30         12         OW-1-37D         84.0         30         29           OW-1-30D         79.0         45         33         OW-1-34S         50.1         30         12         OW-1-38D         82.0         60         32           OW-1-30D         79.0         45         33         OW-1-34S         50.1         30         12         OW-1-38D         82.0         60         32           OW-1-31D         80.5         20         28         OW-1-35S         50.3         30         13         OW-1-39D         78.0         20         27           OW-1-32D         81.6         50         28         OW-1-36S         50.3         30         13         OW-1-40D         76.0         OFF	Domments: Corporati	on after collecting Injection Bank 7 Depth	g readings. Inje 7 scfh	ection times at F	3ank #5 were set at 3 minutes. O <sub>2</sub> Inject ID	on System #1 Injection Bank 8 Depth	scfh	psi	ID	Injecti Depth	on Bank 9 scfh	psi
OW-1-29D         78.4         30         27         OW-1-33S         49.7         30         12         OW-1-37D         84.0         30         29           OW-1-30D         79.0         45         33         OW-1-34S         50.1         30         12         OW-1-38D         82.0         60         32           OW-1-31D         80.5         20         28         OW-1-35S         50.3         30         13         OW-1-39D         78.0         20         27           OW-1-32D         81.6         50         28         OW-1-36S         50.3         30         13         OW-1-40D         76.0         OFF	ID OW-1-25D	on after collecting Injection Bank 7 Depth 78.1	g readings. Injo 7 scfh 30	ection times at F	Bank #5 were set at 3 minutes.	on System #1 Injection Bank 8 Depth 48.5	scfh 20	<b>psi</b> 12	ID 0W-1-33D	Injecti Depth 83.2	on Bank 9 scfh 35	<b>psi</b> 29
OW-1-30D         79.0         45         33         OW-1-34S         50.1         30         12         OW-1-38D         82.0         60         32           OW-1-31D         80.5         20         28         OW-1-35S         50.3         30         13         OW-1-39D         78.0         20         27           OW-1-32D         81.6         50         28         OW-1-36S         50.3         30         13         OW-1-40D         76.0         OFF         OFF	OW-1-26D	on after collecting Injection Bank 7 Depth 78.1 78.1	g readings. Inje 7 scfh 30 50	psi           27         28	Bank #5 were set at 3 minutes. O2 Inject ID OW-1-298 OW-1-30S	on System #1 Injection Bank 8 Depth 48.5 48.8	scfh 20 30	<b>psi</b> 12 13	ID OW-1-33D OW-1-34D	Injecti Depth 83.2 84.5	on Bank 9 scfh 35 40	<b>psi</b> 29 30
OW-1-31D         80.5         20         28         OW-1-35S         50.3         30         13         OW-1-39D         78.0         20         27           OW-1-32D         81.6         50         28         OW-1-36S         50.3         30         13         OW-1-40D         76.0         OFF         OFF	OW-1-27D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9	g readings. Inje 7 30 50 35	psi           27         28         28           28         28         28	Bank #5 were set at 3 minutes. O2 Inject ID OW-1-29S OW-1-30S OW-1-31S	On System #1           Injection Bank 8           Depth           48.5           48.8           49.3	scfh 20 30 30	<b>psi</b> 12 13 12	ID OW-1-33D OW-1-34D OW-1-35D	Injecti           Depth           83.2           84.5           85.0	on Bank 9 scfh 35 40 50	<b>psi</b> 29 30 27
OW-1-32D       81.6       50       28       OW-1-36S       50.3       30       13       OW-1-40D       76.0       OFF       OFF	OW-1-28D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0	g readings. Inje 7 30 50 35 25	psi           27         28<	O2 Inject           02 Inject           ID           0W-1-29S           0W-1-30S           0W-1-31S           0W-1-32S	On System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3	<b>scfh</b> 20 30 30 40	psi           12           13           12           13           12	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D	Injecti           Depth           83.2           84.5           85.0           85.0	on Bank 9 scfh 35 40 50 30	<b>psi</b> 29 30 27 29
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	OWN-1-28D OW-1-29D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.4	g readings. Injo 7 30 50 35 25 30	psi           27         28           28         28           28         28           27         28	O2 Inject           O2 Inject           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S	on System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.7	scfh 20 30 30 40 30	psi           12           13           12           13           12           13           12           13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0	on Bank 9 scfh 35 40 50 30 30	psi           29           30           27           29           20           20
	omments:         Corporati           ID            OW-1-25D            OW-1-26D            OW-1-26D            OW-1-27D            OW-1-28D            OW-1-29D            OW-1-30D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.4 79.0	g readings. Injo 7 30 50 35 25 30 45	psi           27         28           28         28           28         28           27         33	O2 Inject           02 Inject           ID           0W-1-29S           0W-1-30S           0W-1-31S           0W-1-32S           0W-1-33S           0W-1-34S	On System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.7           50.1	scfh 20 30 30 40 30 30	psi           12           13           12           13           12           13           12           13           12           12           12           12           12           12           12           12           12           12           12	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0	on Bank 9 scfh 35 40 50 30 30 60	psi           29           30           27           29           20           30           27           29           30           27           29           30           27           29           32
Corporation arter contexting readings.	omments:         Corporati           ID         ID           OW-1-25D         OW-1-26D           OW-1-26D         OW-1-27D           OW-1-27D         OW-1-28D           OW-1-29D         OW-1-30D           OW-1-31D         OW-1-31D	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.4 79.0 80.5	g readings. Injo 7 30 50 35 25 30 45 20	ection times at B psi 27 28 28 28 28 27 33 28 28	O2 Inject           02 Inject           ID           0W-1-29S           0W-1-30S           0W-1-31S           0W-1-32S           0W-1-33S           0W-1-33S           0W-1-34S           0W-1-35S	on System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	sefh           20           30           30           30           30           30           30           30           30           30           30           30           30	psi           12           13           12           13           12           12           12           13           12           13           12           13           12           13           13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0	on Bank 9 scfh 35 40 50 30 30 60 20	psi           29           30           27           29           27           29           30           27           29           32           27
Date: 10/8/2012	omments:         Corporati           ID         ID           OW-1-25D         OW-1-25D           OW-1-26D         OW-1-26D           OW-1-27D         OW-1-27D           OW-1-28D         OW-1-29D           OW-1-30D         OW-1-31D           OW-1-32D         All injecti	on after collecting Injection Bank 7 Depth 78.1 78.1 77.9 78.0 78.4 79.0 80.5 81.6 ion point flows we	g readings. Injo 7 30 50 35 25 30 45 20 50 ere adjusted to	psi           27           28           28           27           33           28           28           27	O2 Inject           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S           OW-1-36S	on System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3           50.3	sefh           20           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30	psi           12           13           12           13           12           12           12           13           12           13           13           13           13           13	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 scfh 35 40 50 30 30 60 20 OFF	psi           29           30           27           29           30           27           29           32           27           OFF

#### SYSTEM #1

					C	D <sub>2</sub> Injectio	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3′	7S	50.5	25	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-3	3S	50.6	20	13	OW-1-42	2D	71.0	OFF	OFF	OW-1-44	66.6	30	18
OW-1-3	9S	50.7	30	12	OW-1-4	15	65.7	25	19	OW-1-51R	60.6	30	17
OW-1-4	)S	51.1	25	13	OW-1-4	46	64.3	30	18	OW-1-52	59.3	40	15
OW-1-4	IS	51.5	30	13	OW-1-4	17	63.4	25	18	OW-1-53	60.0	50	16
OW-1-42	28	51.3	20	13	OW-1-4	48	62.5	30	17	OW-1-54	60.0	40	15
	•				OW-1-4	19	61.5	25	17				
					OW-1-5	50	61.0	30	15				
	*	itoring Points			ank #11 was set at (	D <sub>2</sub> Injectio	on System #2 nitoring Points L	.0g			Monitori	ng 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	25.81	20.9	2.99	0	MP-1-5	25.53	16.2	3.51	0	MP-1-1E	)	2.22	3.16
MP-1-1S	25.97	40.4	2.95	0	MP-1-6	18.02	17.5	2.72	0.1	MP-1-2E	)	2.66	3.50
MP-1-2D	20.09	20.6	2.40	0	MP-1-7	21.34	18.9	3.54	0	MP-1-3E	)	3.13	3.71
MP-1-2S	20.42	33.8	3.52	0.5	MP-1-8	22.38	20.9	2.16	0	MP-1-4E	)	2.78	4.35
MP-1-3D	18.24	20.9	3.61	0.3									
MP-1-3S	18.26	20.9	3.58	0.4									
MP-1-4D	21.02	20.6	2.02	0.2									
MP-1-4S	20.84	22.9	3.12	0									
Comments:					1-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-38 (49 feet), MP-	1-3D (79 f	Geet), MP-1-4S (5	3 feet), MP-1-

## SYSTEM #1

						Date: 10/8/2012
			OPERATIONAL	NOTES		
GA5 Air Compressor						
1) Oil Lev * Unloa	vel Checked with system u ad system, wait until Deliv vel with system unloaded		ss than 9 psi	Yes	Х	No
2) 011 201	Low (red	)	Normal (green)		Х	High (orange)
7) Oil sepa	led nged	Yes Yes Yes Yes Yes		No No No No No	X X X X X X	
0) Termin	ar surps encered	105	<u> </u>	110		
AS-80 O <sub>2</sub> Generator 1) Prefilte 2) Coalesc	er changed cing changed	Yes Yes		No No	X X	
			GENERAL SYSTE	M NOTES		
<u>Trailer</u> 1) 2) 3)	Performed general hous Abnormal conditions of Other major activities c	oserved (e.g. vandalis	m	Yes		No
4)	Supplies needed					
5)	Visitors					
transported off-site, o		y other abnormal op	erating conditions:		caned up all	garbage & leaves from around fence areas.

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	13 Ra ~64 ~70	/2012 :30 ain 4° F )° F Ryan								
	0 <sub>2</sub> Ge	enerator (Ai	rSep)				Compressor	<mark> (Kaesar Rota</mark>	<mark>ry Scre</mark> w	7)	
Hours			4,326.7		Compressor T	`ank *			120		(psi)
Feed Air Pressure *			110	(psi)		(rea	dings below	are made from	control p	anel)	
					Delivery Air	_			114		(psi)
Cycle Pressure *			65	(psi)	Element Outle	et Temperati	ure		160		(oF)
Oxygen Receiver Pressu	ire *			100 (psi)	Running Hour Loading Hour				5,111 3,221		(hours) (hours)
Oxygen Purity * maximum reading during los	ading cycle		96.9	(percent) O <sub>2</sub> Injecti	* maximum read on System #1	ing during load	ling cycle				
	injection Bank 1				Injection Bank 2		1			on Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	30	OW-1-5S	67.3	30	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	35	30	OW-1-7S	66.9	35	18	OW-1-11D	86.1	OFF	OFF
OW-1-4	95.0	30	29	OW-1-8S	66.7	OFF	OFF	OW-1-12D	85.3	OFF	OFF
OW-1-5D	93.9	35	29	OW-1-9S	66.0	35	18	OW-1-13D	84.7	OFF	OFF
OW-1-6D	92.4	40	29	OW-1-10S	54.6	40	14	OW-1-14D	84.1	OFF	OFF
OW-1-7D	91.1	45	29	OW-1-11S	54.1	30	14	OW-1-15D	83.3	OFF	OFF
OW-1-8D	89.6	OFF	OFF	OW-1-12S	53.6	30	15	OW-1-16D	82.5	OFF	OFF
				rate of ~30 scfh provided that Bank #1 and Bank #3 were set		g was no greate	er than the press	ures provided in th	e hydrostat	ic tables prepar	red by URS

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		10/25/20	12
				O <sub>2</sub> Injection	on System #1						
	Injection Bank 4	4			Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	25	13	OW-1-17D	79.5	OFF	OFF	OW-1-21S	49.3	30	12
OW-1-14S	52.7	35	14	OW-1-18D	78.3	OFF	OFF	OW-1-22S	49.3	35	12
OW-1-15S	52.2	30	13	OW-1-19D	78.9	OFF	OFF	OW-1-23S	48.8	25	12
OW-1-16SR	51.8	OFF	OFF	OW-1-20D	79.5	OFF	OFF	OW-1-24S	48.4	35	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	30	13	OW-1-22D	79.5	OFF	OFF	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	40	14	OW-1-23D	78.7	OFF	OFF	OW-1-27S	48.3	40	13
OW-1-20S	49.3	45	13	OW-1-24D	78.2	OFF	OFF	OW-1-28S	48.3	30	13
				O <sub>2</sub> Injection	on System #1						
	Injection Bank 2	7			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Injection Bank 7	7 scfh	psi			scfh	psi	ID	Injecti Depth	on Bank 9 scfh	psi
	-		psi 27		Injection Bank 8	<b>scfh</b> 40	<b>psi</b> 12	<b>ID</b> OW-1-33D			<b>psi</b> 29
ID	Depth	scfh		ID	Injection Bank 8 Depth				Depth	scfh	
<b>ID</b> OW-1-25D	<b>Depth</b> 78.1	scfh 30	27	ID OW-1-298	Injection Bank 8 Depth 48.5	40	12	OW-1-33D	<b>Depth</b> 83.2	scfh 30	29
ID OW-1-25D OW-1-26D	Depth           78.1           78.1	scfh 30 50	27 28	ID           OW-1-29S           OW-1-30S	Injection Bank 8 Depth 48.5 48.8	40 30	12	OW-1-33D OW-1-34D	Depth           83.2           84.5	scfh 30 30	29 29
ID OW-1-25D OW-1-26D OW-1-27D	Depth           78.1           78.1           77.9	scfh 30 50 40	27 28 28	ID OW-1-29S OW-1-30S OW-1-31S	Injection Bank 8 Depth 48.5 48.8 49.3	40 30 35	12 12 12	OW-1-33D OW-1-34D OW-1-35D	Depth           83.2           84.5           85.0	scfh 30 30 50	29 29 27
ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D	Depth           78.1           78.1           77.9           78.0	scfh 30 50 40 35	27 28 28 27	ID OW-1-29S OW-1-30S OW-1-31S OW-1-32S	Injection Bank 8           Depth           48.5           48.8           49.3           49.3	40 30 35 40	12 12 12 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D	Depth           83.2           84.5           85.0	scfh 30 30 50 30	29 29 27 30
ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D	Depth           78.1           78.1           78.1           78.1           78.1           77.9           78.0           78.4	scfh           30           50           40           35           30	27 28 28 27 27 27	ID OW-1-29S OW-1-30S OW-1-31S OW-1-32S OW-1-33S	Injection Bank 8           Depth           48.5           48.8           49.3           49.7	40 30 35 40 40	12 12 12 13 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-37D	Depth           83.2           84.5           85.0           85.0           84.0	scfh 30 30 50 30 25	29 29 27 30 29
ID           OW-1-25D           OW-1-26D           OW-1-27D           OW-1-28D           OW-1-29D           OW-1-30D	Depth           78.1           78.1           78.1           78.1           77.9           78.0           78.4           79.0	scfh           30           50           40           35           30           40	27 28 28 27 27 27 38	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S	Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1	40 30 35 40 40 35	12 12 12 13 13 12	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-37D OW-1-38D	Depth           83.2           84.5           85.0           85.0           84.0           82.0	scfh 30 30 50 30 25 40	29 29 27 30 29 32
ID           OW-1-25D           OW-1-26D           OW-1-26D           OW-1-27D           OW-1-28D           OW-1-29D           OW-1-30D           OW-1-31D           OW-1-32D	Depth           78.1           78.1           78.1           77.9           78.0           78.4           79.0           80.5           81.6	scfh           30           50           40           35           30           40           40           50	27 28 28 27 27 27 38 22 28	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S	Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	40 30 35 40 40 35 30 30	12 12 13 13 12 13 13 13 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-36D OW-1-37D OW-1-38D OW-1-39D OW-1-40D	Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	scfh           30           30           50           30           25           40           30           OFF	29 29 27 30 29 32 28 OFF
ID           OW-1-25D           OW-1-26D           OW-1-26D           OW-1-27D           OW-1-28D           OW-1-29D           OW-1-30D           OW-1-31D           OW-1-32D	Depth           78.1           78.1           78.1           78.1           78.1           78.1           78.2           78.4           79.0           80.5           81.6           ion point flows w	scfh           30           50           40           35           30           40           40           50	27 28 28 27 27 27 38 22 28	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S           OW-1-36S	Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	40 30 35 40 40 35 30 30	12 12 13 13 12 13 13 13 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-36D OW-1-37D OW-1-38D OW-1-39D OW-1-40D	Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	scfh           30           30           50           30           25           40           30           OFF	29 29 27 30 29 32 28 0FF ed by URS

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#### SYSTEM #1

					(	D <sub>2</sub> Injectio	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3	7S	50.5	30	12	OW-1-4	1D	73.6	OFF	OFF	OW-1-43	67.4	OFF	OFF
OW-1-3	3S	50.6	30	12	OW-1-42D		71.0	OFF	OFF	OW-1-44	66.6	30	18
OW-1-3	9S	50.7	50	12	OW-1-4	45	65.7	30	19	OW-1-51R	60.6	35	17
OW-1-4	)S	51.1	30	13	OW-1-4	46	64.3	35	18	OW-1-52	59.3	40	16
OW-1-4	IS	51.5	50	13	OW-1-4	17	63.4	30	18	OW-1-53	60.0	35	16
OW-1-42	28	51.3	30	13	OW-1-4	48	62.5	40	18	OW-1-54	60.0	35	16
					OW-1-4	19	61.5	35	17				
					OW-1-5	50	61.0	30	17				
Comments:					rate of ~30 scfh pro ank #11 was set at (	6 minutes.	on System #2	g was no greate	r than the press	ures provided in the	e hydrosta	tic tables prepare	ed by URS
	Mon	itoring Points	Log			Mo	nitoring Points L	.0g			Monitori	ng 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	26.15	20.9	3.01	0	MP-1-5	25.80	16.7	3.43	0	MP-1-11	)	2.11	2.34
MP-1-1S	26.28	40.8	2.92	0	MP-1-6	18.26	16.9	2.49	0.2	MP-1-21	)	2.56	2.78
MP-1-2D	20.31	20.5	2.01	0.3	MP-1-7	21.55	20.1	2.42	0	MP-1-31	)	3.44	3.70
MP-1-2S	20.70	31.6	3.68	0.4	MP-1-8	22.62	20.9	2.62	0	MP-1-41	)	2.39	2.98
MP-1-3D	18.49	19.7	3.37	0.1									
MP-1-3S	18.48	20.9	3.15	0.1									
MP-1-4D	21.22	20.5	2.23	0									
MP-1-4S	21.04	20.9	3.20	0									
Comments:					-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-38 (49 feet), MP-	1-3D (79 f	Geet), MP-1-4S (5	i3 feet), MP-1-

### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

		IOTEC			
	OPERATIONAL N	OTES			
GA5 Air Compressor 1) Oil Level Checked with system unloaded* * Unload system, wait until Delivery Air Pressure is less Checked with system and the system of the syste	than 9 psi	Yes	X	No	
2) Oil Level with system unloaded Low (red)		No No No No No	X X X X X X X	High (orange)	_
AS-80 O <sub>2</sub> Generator 1) Prefilter changed Yes		No	x		
2) Coalescing changed Yes		No	X		
	GENERAL SYSTEM	I NOTES			
Yrailer       1)       Performed general housekeeping (i.e. sweep, co         2)       Abnormal conditions observed (e.g. vandalism	ollect trash inside and o		_X	No	-
3) Other major activities completed					
4) Supplies needed					
5) Visitors					
Record routine activities such as any alarm/shutdowns, sampling, ma ransported off-site, oil/filter/gasket and/or any other abnormal oper					
boaked up small amount of oil and water from separator for disposal. Ac ir filters in electrical boxes. Restarted all injection points that were man . Wiped down all equipment and cleaned up all garbage & leaves from	ually turned off after co				
Electric Meter # 96-934-323 tied into Pole #4					

Action Items:

#### SYSTEM #1

Inside Trailer Temp	Time: 13:18										
	0 <sub>2</sub> Ge	enerator (Ai	irSep)				<b>Compressor</b>	(Kaesar Rota	<mark>ry Screv</mark>	v)	
Hours	urs <u>4,510.3</u>								110		(psi)
Feed Air Pressure *			120	(psi)	(readings below are made from control pane					panel)	
			<i>c</i> 0		Delivery Air				111		(psi)
Cycle Pressure *			60	(psi)	Element Outle	et Temperati	ire		178		(oF)
Oxygen Receiver Pressu	re *			100 (psi)	Running Hour Loading Hour				5,309 3,348		(hours) (hours)
Oxygen Purity * maximum reading during lo	ading cycle		97.5	(percent)	* maximum read	ing during load	ling cycle				
I	njection Bank 1				Injection Bank 2				Injecti	ion Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	35	30	OW-1-5S	67.3	30	17	OW-1-9D	88.5	40	32
OW-1-2	96.5	30	31	OW-1-6S	67.0	40	19	OW-1-10D	87.2	35	31
OW-1-3	96.3	40	30	OW-1-7S	66.9	40	19	OW-1-11D	86.1	40	30
OW-1-4	95.0	40	29	OW-1-8S	66.7	45	18	OW-1-12D	85.3	30	29
OW-1-5D	93.9	30	30	OW-1-9S	66.0	50	18	OW-1-13D	84.7	30	29
OW-1-6D	92.4	35	30	OW-1-10S	54.6	50	15	OW-1-14D	84.1	30	30
OW-1-7D	91.1	45	29	OW-1-11S	54.1	20	14	OW-1-15D	83.3	35	31
OW-1-8D 89.6 40 30 OW-1-12S					53.6	30	15	OW-1-16D	82.5	40	30
	All injection point flows were adjusted to the target flow rate of ~30 scfh provided Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were					g was no greate	r than the press	ures provided in the	e hydrosta	tic tables prepar	red by URS

#### SYSTEM #1

								Date:		11/14/20	12
				O <sub>2</sub> Injection	on System #1						
	Injection Bank 4	1			Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	30	27	OW-1-21S	49.3	30	12
OW-1-14S	52.7	40	15	OW-1-18D	78.3	30	28	OW-1-22S	49.3	30	12
OW-1-15S	52.2	45	14	OW-1-19D	78.9	35	28	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	40	15	OW-1-20D	79.5	40	27	OW-1-24S	48.4	30	14
OW-1-17S	50.7	30	15	OW-1-21D	79.5	40	26	OW-1-25S	48.8	40	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	50	27	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	30	14	OW-1-23D	78.7	55	29	OW-1-27S	48.3	20	12
OW-1-20S	49.3	25	14	OW-1-24D	78.2	30	29	OW-1-28S	48.3	25	13
O <sub>2</sub> Injection System #1											
	Injection Bank 7	1			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Injection Bank 2	7 scfh	psi			scfh	psi	ID	Injecti Depth	on Bank 9 scfh	psi
			<b>psi</b> 27		Injection Bank 8	<b>scfh</b> 40	<b>psi</b> 12	ID OW-1-33D			<b>psi</b> 29
ID	Depth	scfh		ID	Injection Bank 8 Depth				Depth	scfh	
ID OW-1-25D	<b>Depth</b> 78.1	scfh 30	27	ID OW-1-29S	Injection Bank 8 Depth 48.5	40	12	OW-1-33D	<b>Depth</b> 83.2	scfh 30	29
ID OW-1-25D OW-1-26D	Depth           78.1           78.1	scfh 30 35	27 29	ID           OW-1-29S           OW-1-30S	Injection Bank 8 Depth 48.5 48.8	40 35	12	OW-1-33D OW-1-34D	Depth           83.2           84.5	scfh 30 30	29 29
ID OW-1-25D OW-1-26D OW-1-27D	Depth           78.1           78.1           77.9	scfh 30 35 40	27 29 29	ID OW-1-29S OW-1-30S OW-1-31S	Injection Bank 8           Depth           48.5           48.8           49.3	40 35 30	12 12 12	OW-1-33D OW-1-34D OW-1-35D	Depth           83.2           84.5           85.0	scfh 30 30 35	29 29 27
ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D	Depth           78.1           78.1           77.9           78.0	scfh 30 35 40 40	27 29 29 28	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S	Anjection Bank 8           Depth           48.5           48.8           49.3           49.3	40 35 30 30	12 12 12 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D	Depth           83.2           84.5           85.0           85.0	scfh           30           30           30           30           30           30           30           30           30           30           30           30           30	29 29 27 30
ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D	Depth           78.1           78.1           78.1           78.1           78.1           77.9           78.0           78.4	scfh           30           35           40           40           30	27 29 29 28 27	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S	Anjection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7	40 35 30 30 30	12 12 12 13 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-37D	Depth           83.2           84.5           85.0           85.0           84.0	scfh 30 30 35 30 45	29 29 27 30 30
ID OW-1-25D OW-1-26D OW-1-26D OW-1-27D OW-1-28D OW-1-29D OW-1-30D	Depth           78.1           78.1           78.1           78.1           77.9           78.0           78.4           79.0	scfh           30           35           40           40           30           30	27 29 29 28 27 37	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S	Injection Bank 8           Depth           48.5           48.8           49.3           49.7           50.1	40 35 30 30 30 40	12 12 12 13 13 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-37D OW-1-38D	Depth           83.2           84.5           85.0           85.0           84.0           82.0	sefh 30 30 35 30 45 45	29 29 27 30 30 32
ID           OW-1-25D           OW-1-26D           OW-1-26D           OW-1-27D           OW-1-28D           OW-1-29D           OW-1-30D           OW-1-31D           OW-1-32D	Depth           78.1           78.1           78.1           77.9           78.0           78.4           79.0           80.5           81.6	scfh           30           35           40           40           30           30           40           40           40           40           40           40           40           40           40           45           ere adjusted to	27 29 29 28 27 37 22 28	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S	Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	40 35 30 30 30 40 30 50	12 12 13 13 13 14 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-36D OW-1-37D OW-1-39D OW-1-40D	Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	scfh           30           30           30           30           35           30           45           45           55           40	29 29 27 30 30 30 32 29 31
ID           OW-1-25D           OW-1-26D           OW-1-26D           OW-1-27D           OW-1-28D           OW-1-29D           OW-1-30D           OW-1-31D           OW-1-32D	Depth           78.1           78.1           78.1           78.1           78.1           77.9           78.0           78.4           79.0           80.5           81.6           ion point flows w	scfh           30           35           40           40           30           30           40           40           40           40           40           40           40           40           40           45           ere adjusted to	27 29 29 28 27 37 22 28	ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S           OW-1-36S	Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	40 35 30 30 30 40 30 50	12 12 13 13 13 14 13	OW-1-33D OW-1-34D OW-1-35D OW-1-36D OW-1-36D OW-1-37D OW-1-39D OW-1-40D	Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	scfh           30           30           30           30           35           30           45           45           55           40	29 29 27 30 30 30 32 29 31 ed by URS

#### SYSTEM #1

					(	D <sub>2</sub> Injectio	on System #1						
	In	ijection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3′	7S	50.5	35	12	OW-1-4	1D	73.6	35	20	OW-1-43	67.4	40	19
OW-1-3	8S	50.6	30	12	OW-1-42	2D	71.0	40	19	OW-1-44	66.6	35	18
OW-1-3	9S	50.7	40	12	OW-1-4	15	65.7	40	19	OW-1-51R	60.6	40	18
OW-1-4	0 <b>S</b>	51.1	50	12	OW-1-4	46	64.3	50	19	OW-1-52	59.3	35	16
OW-1-4	15	51.5	55	13	OW-1-4	17	63.4	35	18	OW-1-53	60.0	40	16
OW-1-42	28	51.3	35	13	OW-1-4	48	62.5	40	18	OW-1-54	60.0	40	16
					OW-1-4	19	61.5	40	17				
					OW-1-5	50	61.0	45	17				
	Mon	nitoring Points	Log		(		on System #2 mitoring Points L	og			Monitori	ng 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	25.87	20.9	2.97	0	MP-1-5	25.88	17.9	3.71	0	MP-1-11	)	2.77	2.99
MP-1-1S	26.03	40.0	3.24	0.2	MP-1-6	18.34	17.6	2.68	0.3	MP-1-2E	)	2.61	2.81
MP-1-2D	20.16	20.6	2.18	0.3	MP-1-7	21.58	20.7	2.91	0	MP-1-3E	)	3.54	3.69
MP-1-2S	20.55	31.6	3.07	0.3	MP-1-8	22.65	20.9	2.61	0	MP-1-41	)	2.43	3.28
MP-1-3D	18.54	20.9	3.41	0									
MP-1-3S	18.57	20.9	3.35	0									
MP-1-4D	21.21	20.6	2.14	0.1									
MP-1-4S	21.05	22.4	3.45	0									
Comments:					1-1S (66 feet), MP- (64 feet) and MP-			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-	1-3D (79 f	Geet), MP-1-4S (5	3 feet), MP-1-

#### SYSTEM #1

	Date: 11/14/2012
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 (or	ange)
3) Oil added     Yes     X     No       4) Oil changed     Yes     X     No       5) Oil filter changed     Yes     X     No       6) Air filter Changed     Yes     X     No       7) Oil separator changed     Yes     X     No       8) Terminal strips checked     Yes     X     No	
AS-80 O2 Generator     1) Prefilter changed     Yes     X     No       2) Coalescing changed     Yes     X     No	
GENERAL SYSTEM NOTES	
Trailar	
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:	
On Monday, October 29, 2012, the area was impacted with a major hurricane, which knocked power out to the system. On Monday, Northe system and discovered that the power to the system had been resorted. However, the compressor and booster pump motor control state manually reset to restart the system. The system was restarted and was allowed to buildup pressure before the injections solenoids were a down time for this alarm condition was approximately 7 days.	rters were both tripped and needed to be
In addition to the power issues caused by the storm, the system shed doors and roof was damaged. Even with the doors deadbolted the p them open and broke the doors from the door jams. In addition, some shingles were blown off the roof. The major damage to the doors system was secured.	
Performed 6-month O&M on all equipment between 11-6-12 and 11-14-12.	
Took apart air compressor and changed filters and cooling oil. Installed new belt on compressor. Cleaned out cooling canister of debris separator unit. Took apart auto drains on all units and cleaned out silt build up. Changed filters in water trap and replaced o-rings in unit separator unit and replaced filters. Greased all fittings on booster pump and changed belt. Changed all fresh air filters in shed. Repaired was stuck open. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.	t. Flushed out oil building up in base of a
Electric Meter # 96-934-323 tied into Pole #4	
Action Items:	

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	berature:	13 Su ~44 ~65	//2012 :18 nny 6° F 8° F 8° F 9 Ryan	- - - - -							
	O <sub>2</sub> Ge	<mark>enerator (A</mark> i	irSep)				<b>Compressor</b>	<mark>(Kaesar Rota</mark>	<mark>ry Screv</mark>	v)	
Hours			4,631.8	-	Compressor 7	ſank *			(psi)		
Feed Air Pressure *			105	(psi)		(rea	dings below	are made from	-	oanel)	
Cycle Pressure *			60	(psi)	Delivery Air Element Outl	et Temperati	ure		112 102		(psi) (oF)
Oxygen Receiver Pressu	re *			100 (psi)	Running Hou Loading Hou				5,444 3,431		(hours) (hours)
Oxygen Purity * maximum reading during loa	ading cycle		97.1	_(percent)	* maximum read	ling during load	ling cycle				
T	njection Bank 1			O <sub>2</sub> Injec	tion System #1 Injection Bank 2				Injecti	on Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	40	30	OW-1-5S	67.3	30	17	OW-1-9D	88.5	40	28
OW-1-2	96.5	30	31	OW-1-6S	67.0	40	18	OW-1-10D	87.2	30	28
OW-1-3	96.3	30	29	OW-1-7S	66.9	30	18	OW-1-11D	86.1	30	28
OW-1-4	95.0	30	29	OW-1-8S	66.7	40	19	OW-1-12D	85.3	35	29
OW-1-5D	93.9	45	29	OW-1-9S	66.0	35	19	OW-1-13D	84.7	45	27
OW-1-6D	92.4	55	29	OW-1-10S	54.6	40	14	OW-1-14D	84.1	55	29
OW-1-7D	91.1	40	29	OW-1-11S	54.1	40	14	OW-1-15D	83.3	40	29
OW-1-8D	89.6	35	29	OW-1-12S	53.6	30	15	OW-1-16D	82.5	30	19
				rate of ~30 scfh provided tha Bank #1 and Bank #3 were se		g was no greate	er than the press	ures provided in the	e hydrosta	tic tables prepare	ed by URS

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

				O <sub>2</sub> Injecti	on System #1						
	Injection Bank				Injection Bank 5		1			on Bank 6	1
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	25	13	OW-1-17D	79.5	40	16	OW-1-21S	49.3	30	12
OW-1-14S	52.7	30	14	OW-1-18D	78.3	30	28	OW-1-22S	49.3	30	13
OW-1-15S	52.2	30	14	OW-1-19D	78.9	30	28	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	40	28	OW-1-20D	79.5	30	28	OW-1-24S	48.4	30	13
OW-1-17S	50.7	30	27	OW-1-21D	79.5	35	27	OW-1-25S	48.8	40	13
OW-1-18S	50.2	40	13	OW-1-22D	79.5	40	27	OW-1-26SR	48.3	50	13
OW-1-19S	49.7	30	14	OW-1-23D	78.7	30	27	OW-1-27S	48.3	30	13
	49.3	30	14	OW-1-24D	78.2	30	28	OW-1-28S	48.3	30	13
				rate of ~30 scfh provided that i 3ank #5 were set at 3 minutes. O <sub>2</sub> Injecti	he pressure reading on System #1	g was no greate	r than the press	ures provided in the	e hydrostat	ic tables prepar	ed by URS
All injecti Comments: Corporatio		g readings. Inje		Bank #5 were set at 3 minutes.		g was no greate	r than the press	ures provided in the		ic tables prepar	ed by URS
All injecti Comments: Corporatio	on after collectin	g readings. Inje		Bank #5 were set at 3 minutes.	on System #1	g was no greate	r than the press	ures provided in the			ed by URS
omments: All injecti Corporatio	on after collectin	g readings. Inje	ection times at I	Bank #5 were set at 3 minutes.	on System #1 Injection Bank 8				Injecti	on Bank 9	
Comments: All injecti Corporation	Injection Bank '	g readings. Injo 7 scfh	psi	3ank #5 were set at 3 minutes. O <sub>2</sub> Injecti ID	on System #1 Injection Bank 8 Depth	scfh	psi		Injecti Depth	on Bank 9 scfh	psi
omments: All injecti Corporation ID OW-1-25D	Injection Bank ' Depth 78.1	g readings. Injo	ection times at I psi 27	3ank #5 were set at 3 minutes. O2 Injecti ID OW-1-298	on System #1 Injection Bank 8 Depth 48.5	scfh 30		ID 0W-1-33D	Injecti Depth 83.2	on Bank 9 scfh 30	29
omments: All injecti Corporation ID OW-1-25D OW-1-26D	Injection Bank ' Depth 78.1 78.1	g readings. Inje	psi 27 29	3ank #5 were set at 3 minutes. O2 Injecti ID OW-1-29S OW-1-30S	on System #1 Injection Bank 8 Depth 48.5 48.8	scfh 30 40	12	ID OW-1-33D OW-1-34D	Injecti Depth 83.2 84.5	on Bank 9 scfh 30 35	29 28
omments: All injecti Corporation ID OW-1-25D OW-1-26D OW-1-27D	Injection Bank ' Depth 78.1 78.1 77.9	g readings. Inje 7 30 40 30	psi           27         29         29           29         29         29	ID           OW-1-29S           OW-1-30S           OW-1-31S	on System #1 Injection Bank 8 Depth 48.5 48.8 49.3	scfh 30 40 30	12 12 12	- ID OW-1-33D OW-1-34D OW-1-35D	Injecti Depth 83.2 84.5 85.0	on Bank 9 scfh 30 35 45	29 28 27
omments: All injecti Corporation ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D	Injection Bank ' Depth 78.1 78.1 77.9 78.0	g readings. Inj 7 30 40 30 30	psi           27         29         29         29         29         27         29         27         29         27         29         27         29         27         29         27         29         27         29         27         29         27         29         27         27         29         27         29         27         27         29         27<	O2 Injecti           ID           OW-1-295           OW-1-305           OW-1-315           OW-1-325	Injection Bank 8           Depth           48.5           48.8           49.3           49.3	scfh 30 40 30 30	12 12 12 12 13	- ID OW-1-33D OW-1-34D OW-1-35D OW-1-36D	Injecti Depth 83.2 84.5 85.0 85.0	on Bank 9 scfh 30 35 45 50	29 28 27 30
Comments: All injecti Corporation ID OW-1-25D OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D	Depth           78.1           77.9           78.0           78.4	g readings. Inj 7 scfh 30 40 30 30 30 30	ection times at I psi 27 29 29 27 27 27 27 27 27 27 27 27 27 27 27 27	O2 Injecti           O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S	System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.7	scfh 30 40 30 30 30	psi           12           12           12           13           12	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D           0W-1-37D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0	on Bank 9 scfh 30 35 45 50 50	29 28 27 30 29
Comments: All injecti Corporation ID OW-1-25D OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D OW-1-30D	Injection Bank '           Depth           78.1           78.1           77.9           78.0           78.4           79.0	g readings. Inj 7 	ection times at I psi 27 29 29 27 27 27 38	O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S	Jon System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1	scfh           30           40           30           30           30           40           30           40	psi           12           12           12           12           12           13           12           13           13	ID           0W-1-33D           0W-1-34D           0W-1-35D           0W-1-36D           0W-1-37D           0W-1-38D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0	on Bank 9 scfh 30 35 45 50 50 60	psi           29           28           27           30           29           31
omments: All injecti Corporation ID OW-1-25D OW-1-26D OW-1-27D OW-1-28D OW-1-29D OW-1-30D OW-1-31D OW-1-32D	Injection Bank '           Depth           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.2           78.3           80.5           81.6	g readings. Inj 7 scfh 30 40 30 30 30 40 45 55 ere adjusted to	ection times at I psi 27 29 29 27 27 27 38 22 27 27 38	O2 Injecti           ID           0W-1-29S           0W-1-30S           0W-1-31S           0W-1-32S           0W-1-33S           0W-1-33S           0W-1-34S           0W-1-35S	Jon System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	scfh           30           40           30           30           30           30           30           30           30           30           30           30           30           30           30           30           35	psi           12           12           12           12           13           13           13           13           13           12	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 scfh 30 35 45 50 50 60 30 45	psi           29           28           27           30           29           31           28           29
omments: All injecti Corporation ID OW-1-25D OW-1-26D OW-1-26D OW-1-27D OW-1-28D OW-1-29D OW-1-30D OW-1-31D OW-1-32D	Injection Bank '           Depth           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.1           78.2           78.3           78.4           79.0           80.5           81.6	g readings. Inj 7 scfh 30 40 30 30 30 40 45 55 ere adjusted to	ection times at I psi 27 29 29 27 27 27 38 22 27 27 38	O2 Injecti           O2 Injecti           ID           OW-1-29S           OW-1-30S           OW-1-31S           OW-1-32S           OW-1-33S           OW-1-34S           OW-1-35S           OW-1-36S	Jon System #1           Injection Bank 8           Depth           48.5           48.8           49.3           49.3           49.7           50.1           50.3	scfh           30           40           30           30           30           30           30           30           30           30           30           30           30           30           30           30           35	psi           12           12           12           12           13           13           13           13           13           12	ID           OW-1-33D           OW-1-34D           OW-1-35D           OW-1-35D           OW-1-36D           OW-1-37D           OW-1-38D           OW-1-39D           OW-1-40D	Injecti           Depth           83.2           84.5           85.0           85.0           84.0           82.0           78.0           76.0	on Bank 9 scfh 30 35 45 50 50 60 30 45	29 28 27 30 29 31 28 29 29 29 29 29 29 29 20 29 29 20 29 20 20 20 20 20 20 20 20 20 20 20 20 20

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#### SYSTEM #1

					C	D <sub>2</sub> Injectio	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3	7S	50.5	30	12	OW-1-4	1D	73.6	30	24	OW-1-43	67.4	35	20
OW-1-3	8S	50.6	30	12	OW-1-42	2D	71.0	35	23	OW-1-44	66.6	40	18
OW-1-39	9S	50.7	30	12	OW-1-4	15	65.7	40	19	OW-1-51R	60.6	30	18
OW-1-4	0S	51.1	40	13	OW-1-4	46	64.3	30	19	OW-1-52	59.3	30	16
OW-1-4	15	51.5	30	13	OW-1-4	17	63.4	30	18	OW-1-53	60.0	30	16
OW-1-42	28	51.3	35	13	OW-1-4	48	62.5	35	19	OW-1-54	60.0	30	16
					OW-1-4	19	61.5	45	17				
					OW-1-5	50	61.0	35	17				
	Mon	itoring Points 1	Log		(		on System #2 nitoring Points L	.0g			Monitori	ng 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	26.46	20.9	2.59	0	MP-1-5	26.11	16.1	3.31	0	MP-1-1D	)	2.50	2.99
MP-1-1S	26.63	40.3	3.10	0	MP-1-6	18.57	17.0	2.55	0.6	MP-1-2D	)	3.46	3.91
MP-1-2D	20.62	20.5	2.44	0	MP-1-7	21.84	18.1	2.24	0	MP-1-3D	)	3.38	3.89
MP-1-2S	21.00	33.8	3.66	0.9	MP-1-8	22.89	20.9	2.45	0	MP-1-4D	)	1.87	3.20
MP-1-3D	18.77	20.9	3.26	0.3									
MP-1-3S	18.80	20.9	3.38	0.5									
MP-1-4D	21.48	20.1	2.70	0.7									
MP-1-4S	21.33	23.5	2.83	0									
omments:					-1S (66 feet), MP- (64 feet) and MP-1			eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-1	l-3D (79 f	eet), MP-1-4S (5	3 feet), MP-1

# SYSTEM #1

						Date:	11/30/2012
				<b>OPERATIONAL</b> 1	NOTES		
GA5 Air C	*						
	,	el Checked with system ur			Yes X	No	
		d system, wait until Delive	ery Air Pressure is less that	an 9 psi			
	2) Oil Leve	el with system unloaded		N 1/	¥7		I
	3) Oil adde	Low (red)	Yes	Normal (green)		High (orange)	
	<ol> <li>4) Oil adde</li> </ol>		Yes		No X		
	5) Oil filter		Yes		No X		
	6) Air filter		Yes		No X		
		rator changed	Yes		No X		
	8) Termina	l strips checked	Yes X		No		
AS-80 O <sub>2</sub> (	Generator						
	1) Prefilter		Yes		No X		
	2) Coalesci	ing changed	Yes		No X		
			G	ENERAL SYSTEN	A NOTES		
T							
<u>Trailer</u>	1)	Performed general house	ekeeping (i.e. sweep, colle	ect trash inside and	out etc.)		
	1)	renormed general nous	keeping (i.e. sweep, cond	tet trash histor and	Yes X	No	
	2)	Abnormal conditions ob	served (e.g. vandalism				
	3)	Other major activities co	mpleted				
	4)	Supplies needed					
	4)	Supplies lieddd					
	5)	Visitors					
	,						
		es such as any alarm/shu					
transporte	d off-site, oil	l/filter/gasket and/or any	other abnormal operati	ing conditions:			
Soaked up	small amoun	t of oil and water from ser	arator for disposal Wine	ed down all equipme	ent and cleaned up all	l garbage & leaves from around fence ar	1295
boaked up	sinan amoun	t of on and water from ser	arator for disposal. Wipe	ed down an equipme	ent and created up an	i garbage te reaves nom around rence a	cus.
Since starti	ng up all of t	he injection points, high p	ressure at the j-plugs has	been noted at monit	oring points MP-1-35	S, MP-1-3D and MP-1-4D. This is a sat	ety concern that has be
previously	mentioned ar	nd needs to be addressed.	• • •		- *		
		222 (* 1.* (* D. 1. // f					
Electric Me	eter # 96-934	-323 tied into Pole #4					
Action Iter	ms:						

#### SYSTEM #1

Date: Time: Weather: Outdoor Temper Inside Trailer Temp Performed B	perature:	13 Su: ~57 ~7(	/2012 :21 nny 7° F )° F Ryan								
	0 <sub>2</sub> Ge	enerator (Ai	rSep)				Compressor	(Kaesar Rota	ry Screv	v)	
Hours	urs4,748.8								115		(psi)
Feed Air Pressure *	ted Air Pressure * (psi)						dings below	are made from	control p	panel)	
					Delivery Air				113		(psi)
Cycle Pressure *	cle Pressure * 60(psi)					et Temperati	ure		118		(oF)
Oxygen Receiver Pressu	re *			100 (psi)	Running Hour Loading Hour				5,575 3,511		(hours) (hours)
Oxygen Purity * maximum reading during los	ading cycle		98.1	(percent)	* maximum read on System #1	ing during load	ling cycle				
	njection Bank 1				Injection Bank 2					ion Bank 3	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	30	OW-1-58	67.3	30	17	OW-1-9D	88.5	30	28
OW-1-2	96.5	30	28	OW-1-6S	67.0	35	18	OW-1-10D	87.2	30	28
OW-1-3	96.3	30	30	OW-1-7S	66.9	45	18	OW-1-11D	86.1	30	29
OW-1-4	95.0	40	30	OW-1-8S	66.7	65	18	OW-1-12D	85.3	30	30
OW-1-5D	93.9	30	29	OW-1-9S	66.0	40	18	OW-1-13D	84.7	35	28
OW-1-6D	92.4	35	29	OW-1-10S	54.6	30	13	OW-1-14D	84.1	30	29
OW-1-7D	91.1	45	29	OW-1-11S	54.1	30	14	OW-1-15D	83.3	40	29
OW-1-8D 89.6 40 28 OW-1-12S					53.6	30	14	OW-1-16D	82.5	30	15
	All injection point flows were adjusted to the target flow rate of ~30 scfh provided Corporation after collecting readings. Injection times at Bank #1 and Bank #3 were					g was no greate	er than the press	ures provided in the	e hydrosta	tic tables prepar	ed by URS

#### SYSTEM #1

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date		12/13/20	12
				O <sub>2</sub> Injectio	on System #1						
	Injection Bank 4	1			Injection Bank 5				Injecti	on Bank 6	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	35	14	OW-1-21S	49.3	30	12
OW-1-14S	52.7	40	14	OW-1-18D	78.3	40	26	OW-1-22S	49.3	35	12
OW-1-15S	52.2	30	13	OW-1-19D	78.9	30	26	OW-1-23S	48.8	30	12
OW-1-16SR	51.8	60	26	OW-1-20D	79.5	30	27	OW-1-24S	48.4	35	12
OW-1-17S	50.7	30	15	OW-1-21D	79.5	30	27	OW-1-25S	48.8	30	13
OW-1-18S	50.2	40	12	OW-1-22D	79.5	30	25	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	40	12	OW-1-23D	78.7	30	26	OW-1-27S	48.3	30	13
OW-1-20S	49.3	45	13	OW-1-24D	78.2	30	27	OW-1-28S	48.3	30	13
	Injection Bank 7	1			on System #1 Injection Bank 8				Injecti	on Bank 9	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	40	27	OW-1-29S	48.5	25	13	OW-1-33D	83.2	30	28
OW-1-26D	78.1	45	28	OW-1-30S	48.8	30	13	OW-1-34D	84.5	40	30
OW-1-27D	77.9	50	28	OW-1-31S	49.3	30	13	OW-1-35D	85.0	40	30
OW-1-28D	78.0	30	27	OW-1-32S	49.3	15	13	OW-1-36D	85.0	30	29
OW-1-29D	78.4	30	26	OW-1-33S	49.7	30	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	30	36	OW-1-34S	50.1	30	13	OW-1-38D	82.0	30	35
OW-1-31D	80.5	40	20	OW-1-35S	50.3	30	13	OW-1-39D	78.0	35	27
OW-1-32D	81.6	30	29	OW-1-36S	50.3	30	13	OW-1-40D	76.0	30	28
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		12/13/20	12

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#### SYSTEM #1

					(	<b>D<sub>2</sub> Injectio</b>	on System #1						
	In	jection Bank 1	0			I	njection Bank 11				Injecti	on Bank 12	
ID		Depth	scfh	psi	ID		Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-3	7S	50.5	20	11	OW-1-4	1D	73.6	35	24	OW-1-43	67.4	25	20
OW-1-3	8S	50.6	30	12	OW-1-42	2D	71.0	30	23	OW-1-44	66.6	30	18
OW-1-39	9S	50.7	30	12	OW-1-4	45	65.7	30	19	OW-1-51R	60.6	30	17
OW-1-4	0S	51.1	30	12	OW-1-4	46	64.3	40	18	OW-1-52	59.3	34	16
OW-1-4	15	51.5	40	13	OW-1-4	47	63.4	50	18	OW-1-53	60.0	40	16
OW-1-42	28	51.3	30	12	OW-1-4	48	62.5	45	18	OW-1-54	60.0	30	16
					OW-1-4	19	61.5	40	17				
					OW-1-5	50	61.0	30	17				
omments:	-	n after collecting		ection time at Ba	nk #11 was set at	D <sub>2</sub> Injectio	on System #1 nitoring Points L	00			Monitori	ng Points Log	
	Nion	Oxygen					Oxygen				Monitori		
ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)	ID		DO (mg/L) Middle	DO (mg/L Top
MP-1-1D	26.61	20.9	3.35	0	MP-1-5	26.25	20.9	3.72	0	MP-1-11	)	2.70	2.81
MP-1-1S	26.75	23.5	3.31	0	MP-1-6	21.89	17.0	2.37	0	MP-1-21	)	3.58	3.52
MP-1-2D	20.76	40.1	3.42	0.3	MP-1-7	21.91	18.0	2.41	0	MP-1-31	)	3.27	3.51
MP-1-2S	21.16	30.7	3.55	0.8	MP-1-8	23.02	20.9	0.00	0.6	MP-1-4I	)	2.52	2.80
MP-1-3D	18.89	20.9	3.16	0.2									
MP-1-3S	18.93	20.9	3.02	0.4									
MP-1-4D	21.57	20.9	1.89	0.5									
MP-1-4S	21.45	31.4	2.01	0									
omments:		gs were collected ), MP-1-5 (78 fe						eet), MP-1-2D	(81 feet), MP-1	-3S (49 feet), MP-	1-3D (79 f	eet), MP-1-4S (5	53 feet), MP-

# SYSTEM #1

OPERATIONAL NOTES           GA5 Air Compressor           1) Oil Level Checked with system unloaded*   Yes X No
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 No 4) Oil changed Yes No 5) Oil filter changed Yes No 6) Air filter Changed Yes No 7) Oil separator changed Yes No 8) Terminal strips checked Yes X No
AS-80 O2 Generator     No     X       1) Prefilter changed     Yes     No     X       2) Coalescing changed     Yes     No     X
GENERAL SYSTEM NOTES
Trailer       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:
Added small amount of oil to compressor. Repaired leak in 3/4-inch hose to air dryer unit. Soaked up small amount of oil and water from separator for disposal. Wiped do equipment and cleaned up all garbage & leaves from around fence areas. Turned heater on in shed.
Since starting up all of the injection points, high pressure at the j-plugs has been noted at monitoring points MP-1-3S, MP-1-3D and MP-1-4D. This is a safety concern that previously mentioned and needs to be addressed.
Electric Meter # 96-934-323 tied into Pole #4
Action Items:

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Wea Outdoor Te Inside Trailer	ate: me: ather: emperature: • Temperature: ned By:	12 Su ~9 ~7	/2012 246 unny 0° F 4° F 2 Ryan	- - - -							
	O <sub>2</sub> Gen	erator (Ai	rSep)				Com	pressor (Kaesa	<mark>ar Rotary</mark>	Screw)	
lours			12,944	-	Compressor	r Tank *			95		(psi)
eed Air Press	sure *		110	(psi)			(readings	s below are mad	le from co	ontrol panel)	
Cycle Pressure	*		60	(psi)	Delivery Ai Element Ou		erature		102 174		(psi) ( <sup>°</sup> F)
Dxygen Receiv	ver Pressure *			105 (psi)	Running Ho Loading Ho				13,086 12,913		(hours) (hours)
)vygan Duriter			05 /	(percept)							
Dxygen Purity maximum readir	ng during loading c		95.4	_(percent)	O <sub>2</sub> Injection			·	In	iection Bank C	
			95.4	_(percent)		n System #		e  ID	In Depth	jection Bank C	scfh
maximum readir	ng during loading c Injection Ba	nk A			O <sub>2</sub> Injection Injection Ba	n System #	2				
ID	ng during loading cy Injection Ba Depth	nk A scfh	psi	ID	O2 Injection Injection Ba Depth	n System # nk B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	ng during loading c Injection Ba Depth 90.2'	nk A scfh 30	<b>psi</b> 32	D 0W-2-9S	O2 Injection Injection Ba Depth 75'	nk B	22	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	<b>scfh</b> 30	scfh 28
ID OW-2-2 OW-2-3	ng during loading c Injection Ba Depth 90.2' 94.3'	nk A scfh 30 35	<b>psi</b> 32 28	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	1 System # nk B 50	2 psi 20 30	ID OW-2-10D OW-2-11D	<b>Depth</b> 97.2' 100.8'	<b>scfh</b> 30 30	scfh 28 32
ID OW-2-2 OW-2-3 OW-2-4	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7'	nk A scfh 30 35 45	<b>psi</b> 32 28 32	ID           0W-2-9S           0W-2-10S           0W-2-11S	O2 Injection Injection Ba Depth 75' 75' 76.5'	1 System # nk B 40 50 30	2 psi 20 30 21	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh         30           30         30           30         35	scfh           28           32           20
ID           ID           OW-2-2           OW-2-3           OW-2-4           OW-2-5	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	nk A sefh 30 35 45 30	psi           32           28           32           33           30	ID OW-2-9S OW-2-10S OW-2-11S OW-2-13S	O2 Injection Ba Injection Ba 75' 75' 76.5' 75'	n System # nk B 40 50 30 40	2 psi 20 30 21 19 19	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh         30           30         30           30         35           35         35	scfh 28 32 20 31
ID           ID           OW-2-2           OW-2-3           OW-2-4           OW-2-5           OW-2-6	ng during loading c Injection Ba Opepth 90.2' 94.3' 94.7' 95.3' 95.7'	nk A scfh 30 35 45 30 30	psi           32           28           32           330           31	ID OW-2-9S OW-2-10S OW-2-11S OW-2-13S OW-2-15S	O2         Injection           Injection Ba         Depth           75'         75'           76.5'         75'           75'         75'	System #           nk B           scfh           40           50           30           40           OFF	2 20 20 30 21 19 OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	scfh         30           30         30           35         35           30         30	scfh 28 32 20 31 29

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.

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		7/13	3/2012	
					O <sub>2</sub> Injectior	<mark>1 System #</mark> 2	2					
	Injection Ba	nk D			Injection Ba				Ir	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	sc	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	O	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	O	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	O	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	35	2	9
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	45	2	9
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	30	3	2
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	45	3	4
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	50	3	9
Comments:	All injection point by URS Corporation		· ·	njection banks D &	-	f.		vas no greater than	the pressure	s provided in th	ne hydrostatic t	ables prepared
	Injection Ba	nk G			Injection Ba	nk H			Mon	itoring 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	21	MP-2-1	27.72	24.2	1.72	0
OW-2-38	62.1'	30	20	OW-2-46	61'	30	20	MP-2-2	28.82	17.5	2.38	0
OW-2-39	60'	35	21	OW-2-47	60.5'	35	20	MP-2-3S	28.94	20.9	1.97	0
OW-2-40	61.7'	30	21	ID	DO (mg/L) Middle	DO (n To	0 /	MP-2-3D	29.17	21.4	2.54	1.0
OW-2-41	61.7'	40	20	MP-2-2	2.91	3.1	4	MP-2-4	17.74	23.3	1.72	0
OW-2-42	61.6'	45	19	MP-2-3S	1.67	2.1	1	MP-2-5	15.96	31.3	2.17	11.2
OW-2-43	61.4'	30	20	MP-2-3D	2.67	2.7	79					
OW-2-44R	60.6'	30	20	MP-2-5	2.54	2.6	58					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	vas no greater than	the pressure	s provided in th	ne hydrostatic ta	ables prepared

Comments: by URS Corporation after collecting readings.

# SYSTEM #2

				Date:	7/13/2012
		OPERATIONAL NO	TES		
GA5 Air Compressor					
	ed with system unloaded*		Yes	X No	
	, wait until Delivery Air Pr	essure is less than 9 psi			
2) Oil Level with sy			<b>T</b> 7 <b>T</b> 7 <b>T</b>		
	Low (red)	Normal (green)	<u> </u>	h (orange)	
3) Oil added		Yes Yes		No         X           No         X           No         X           No         X           No         X           No         X           No         X	
4) Oil changed		Yes		No <u>X</u>	
5) Oil filter changed		Yes		No <u>X</u>	
6) Air filter Change		Yes Yes Yes X		No <u>X</u>	
7) Oil separator clea		Yes		No <u>X</u>	
8) Terminal strips c	hecked	Yes X		No	
AS-80 O <sub>2</sub> Generator					
1) Prefilter changed	1	Vas		No Y	
2) Coalescing change		Yes Yes		No X No X	
	geu	103			
		GENERAL SYSTEM N	OTES		
Trailer					
1) Performed gener	al housekeeping (i.e. sweep	o, collect trash inside and out, etc	c.)		
		Yes X		No	
2) Abnormal condit	ions observed (e.g. vandali	sm)			
2) Other main action					
3) Other major activ					
4) Supplies needed					
,					
5) Visitors					

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

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

Found oxygen holding tanks operating at a pressure of 40 psi which is low. Closed main valve and allowed pressure to build to 80- psi and conducted O&M. Soaked up a small amount of oil and water from separator for disposal. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas. Pulled weeds in and around fence area of shed.

On Tuesday, July 17, 2012, Mike Ryan returned to the site to determine why the pressure was extremely low at the oxygen holding tanks. Took apart all solenoid valves for each injection bank as well as the inline solenoids at the booster pump. Found a bad solenoid at the booster pump which was causing the low pressure in the holding tanks. Replaced the bad solenoid valve and cleaned all other valves. Restarted system and left running.

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

Action Items:

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Wea Outdoor Te Inside Trailer	nte: me: hther: emperature: Temperature: ned By:	12 Su ~8 ~7	/2012 230 nny 4° F 4° F 4° F 2 Ryan	- - - -							
	O <sub>2</sub> Ger	<mark>ierator (Ai</mark> i	rSep)				Com	<mark>pressor (Kaesa</mark>	a <mark>r Rotary</mark>	Screw)	
Hours			13,351	-	Compresso	r Tank *			95		(psi)
Feed Air Press	ure *		100	(psi)			(readings	s below are mad	le from co	ontrol panel)	
Cycle Pressure	*		60	(psi)	Delivery Ai Element Ou		erature		114 172		(psi) (°F)
Oxygen Receiv	ver Pressure *			115 (psi)	Running Ho Loading Ho				13,493 13,302		(hours) (hours)
	ng during loading c	-	94.3	(percent)	O <sub>2</sub> Injection					in the Back	7
Dxygen Purity maximum readin	ng during loading c Injection Ba	ank A			O <sub>2</sub> Injection Injection Ba	n System #	2	e ID	(r)	ajection Bank (	Cscfh
maximum readin	ng during loading c	-	94.3		O <sub>2</sub> Injection	<mark>n System</mark> #			<b>In</b> <b>Depth</b> 97.2'	ajection Bank ( scfh 40	
maximum readin	ng during loading c Injection Ba Depth	nnk A scfh	psi		O <sub>2</sub> Injection Injection Ba Depth	n System # nk B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	ng during loading c Injection Ba Depth 90.2'	ank A scfh 50	<b>psi</b> 28	ID 0W-2-9S	O2 Injection Injection Ba Depth 75'	n System # nk B scfh 30	2 psi 21	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	<b>scfh</b> 40	scfh 28
ID OW-2-2 OW-2-3	ng during loading c Injection Ba Depth 90.2' 94.3'	mk A scfh 50 30	28	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	n System # nk B scfh 30 15	2 psi 21 30	ID OW-2-10D OW-2-11D	<b>Depth</b> 97.2' 100.8'	scfh           40           25	scfh 28 32
ID       OW-2-2       OW-2-3       OW-2-4	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7'	mk A sefh 50 30 30 30	<b>psi</b> 28 28 28 29	ID           0W-2-9S           0W-2-10S           0W-2-11S	O2 Injection Ba Injection Ba Oepth 75' 75' 76.5'	n System # nk B Scfh 30 15 50	2 psi 21 30 22	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh 40 25 40	scfh           28           32           20
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	mk A sefh 50 30 30 35	<b>psi</b> 28 28 29 32	ID           OW-2-9S           OW-2-10S           OW-2-11S           OW-2-13S	O2 Injection Ba Injection Ba Oepth 75' 75' 76.5' 75'	n System # nk B scfh 30 15 50 25	2 psi 21 30 22 19 19	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	sefh 40 25 40 60	scfh 28 32 20 29
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5           0W-2-6	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3' 95.7'	mk A scfh 50 30 30 35 40	psi           28           28           29           32           31	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S           0W-2-15S	O2 Injection           Injection Ba           Depth           75'           75'           76.5'           75'           75'	n System # nk B scfh 30 15 50 25 OFF	2      psi      21      30      22      19      OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	sefh           40           25           40           60           25	scfh 28 32 20 29 30

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.

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		7/30	)/2012	
					O <sub>2</sub> Injection	<mark>1 System #</mark> 2	2					
	Injection Ba	ınk D			Injection Ba				Ir	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	so	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	0	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	0	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	20	2	9
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	25	2	8
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	30	3	2
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	30	3	0
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	20	3	6
Comments:	All injection point by URS Corporation		· ·	njection banks D &	•	f.	-	was no greater than	the pressure	es provided in the	ne hydrostatic t	ables prepared
	Injection Ba	ınk G			Injection Ba	nk H			Mon	itoring 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'	35	21	MP-2-1	28.07	24.9	1.53	0
OW-2-38	62.1'	40	19	OW-2-46	61'	30	20	MP-2-2	29.18	16.5	2.46	0
OW-2-39	60'	40	19	OW-2-47	60.5'	20	20	MP-2-3S	29.32	19.6	2.19	0
OW-2-40	61.7'	30	21	ID	DO (mg/L) Middle	DO (n To		MP-2-3D	29.55	20.3	2.47	0.2
OW-2-41	61.7'	30	20	MP-2-2	2.79	3.2	20	MP-2-4	18.09	31.7	1.80	0
OW-2-42	61.6'	35	20	MP-2-3S	2.00	2.6	54	MP-2-5	16.30	34.5	2.31	0.2
OW-2-43	61.4'	30	20	MP-2-3D	2.90	3.7	70					
OW-2-44R	60.6'	40	20	MP-2-5	2.50	2.6	56					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	was no greater than	the pressure	es provided in th	ne hydrostatic t	ables prepared

Comments: by URS Corporation after collecting readings.

# SYSTEM #2

			Date:	7/30/2012
	OPERATIONAL NOT	TES		
GA5 Air Compressor 1) Oil Level Checked with system unloaded*		Vas	v	No
* Unload system, wait until Delivery Air Pres	sure is less than 9 psi	ies	X	No
2) Oil Level with system unloaded	sure is less than 9 psi			
	Normal (green)	X High	(orange)	
3) Oil added	Yes			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	
o) rommu surps encened	100 11			
AS-80 O <sub>2</sub> Generator				
1) Prefilter changed	Yes		No	Х
2) Coalescing changed	Yes Yes		No	X
	GENERAL SYSTEM NO	OTES		
<u>Trailer</u>				
1) Performed general housekeeping (i.e. sweep, o		.)		
	Yes X		No_	
2) Abnormal conditions observed (e.g. vandalisn				
2) Abiofinal conditions observed (e.g. vandarish	1)			
3) Other major activities completed				
5) Other major activities completed				
4) Supplies needed				
5) Visitors				
5) VISIOIS				
Descend northing activities such as one clower /shutdowing as		-1		
Record routine activities such as any alarm/shutdowns, sa transported off-site, oil/filter/gasket and/or any other abn		lai		
transported on-site, on/inter/gasket and/or any other aon	ormai operating conditions:			
Soaked up a small amount of oil and water from separator for	disposal. Wiped down all equ	ipment and clea	ned up all g	garbage & leaves from around fence areas.
Pulled weeds in and around fence area of shed.				
Electric Mater # 06 020 544 tind into Dala #2				
Electric Meter # 96-929-544 tied into Pole #3				
Action Items:				

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Wea		12 Su ~8 ~7	2012 251 7° F 4° F 2012 251 7° F 4° F	- - - - -							
	O <sub>2</sub> Ger	<mark>ierator (Ai</mark> i	:Sep)				Com	<mark>pressor (Kaesa</mark>	ar Rotary	Screw)	
Hours			13,591	-	Compresso	r Tank *			95		(psi)
Feed Air Press	ure *		100	(psi)			(readings	s below are mad	le from co	ontrol panel)	
Cycle Pressure	· *		65	(psi)	Delivery Ai Element Ou		erature		107 176		(psi) (°F)
Oxygen Receiv	ver Pressure *			105 (psi)	Running Ho Loading Ho				13,733 13,531		(hours) (hours)
					1						
Dxygen Purity maximum readin	ng during loading c		94.5	_(percent)	O <sub>2</sub> Injection						
maximum readin	ng during loading c Injection Ba	ınk A			O <sub>2</sub> Injection Injection Ba	n System # nk B	2			ijection Bank (	
	ng during loading c		94.5 psi 29		O <sub>2</sub> Injection	n System #			In Depth 97.2'	ijection Bank ( scfh 35	C scfh 28
maximum readin	ng during loading c Injection Ba Depth	nk A scfh	psi		O <sub>2</sub> Injection Injection Ba Depth	n System # ink B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	ng during loading c Injection Ba Depth 90.2'	<b>nk A</b> scfh 40	<b>psi</b> 29	ID 0W-2-9S	O2 Injection Injection Ba Depth 75'	n System # mk B Scfh 30	2 psi 21	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	scfh 35	<b>scfh</b> 28
ID OW-2-2 OW-2-3	g during loading c Injection Ba Depth 90.2' 94.3'	mk A scfh 40 50	29 30	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	n System # mk B Scfh 30 35	2 psi 21 30	D 0W-2-10D 0W-2-11D	<b>Depth</b> 97.2' 100.8'	scfh 35 20	scfh 28 32
ID OW-2-2 OW-2-3 OW-2-4	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7'	mk A scfh 40 50 30	<b>psi</b> 29 30 33	ID OW-2-9S OW-2-10S OW-2-11S	O2 Injection Injection Ba Depth 75' 75' 75'	n System # mk B 30 35 30	2 psi 21 30 22	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh 35 20 40	scfh           28           32           20
ID           OW-2-2           OW-2-3           OW-2-4           OW-2-5	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	mk A sefh 40 50 30 30	<b>psi</b> 29 30 33 30	ID OW-2-98 OW-2-108 OW-2-115 OW-2-138	O2 Injection Injection Ba Depth 75' 75' 76.5' 75'	n System # nk B  scfh  30  35  30  50	2 psi 21 30 22 19 19	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh 35 20 40 30	scfh           28           32           20           27
ID           OW-2-2           OW-2-3           OW-2-4           OW-2-5           OW-2-6	ng during loading c Injection Ba Opepth 90.2' 94.3' 94.7' 95.3' 95.7'	mk A scfh 40 50 30 30 40	psi           29           30           33           30           31	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S           0W-2-15S	O2 Injection Injection Ba Depth 75' 75' 76.5' 75' 75'	n System # nk B sefh 30 35 30 50 OFF	2 psi 21 21 30 22 19 OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	scfh 35 20 40 30 20	scfh           28           32           20           27           28

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.

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		8/9	/2012	
					O <sub>2</sub> Injectior	<mark>1 System #</mark> 2	2					
	Injection Ba	nk D			Injection Ba				Iı	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	sc	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	0	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	O	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	25	2	8
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	30	2	7
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	45	3	3
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	30	3	4
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	25	3	6
Comments:	by URS Corporation		ing readings. In		E are turned of O <sub>2</sub> Injection Injection Ba	<mark>1 System #</mark> 2	2	-	Mor	itoving Doints	Log	
	Injection Ba	nk G			Injection Ba				Mon	itoring Points Oxygen		
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	Headspace (%O2)	DO (mg/L) Bottom	PID (ppm)
OW-2-37	62.8'	35	20	OW-2-45	61.1'	25	22	MP-2-1	28.25	23.7	1.80	0
OW-2-38	62.1'	40	19	OW-2-46	61'	30	19	MP-2-2	29.38	17.9	2.38	0
OW-2-39	60'	40	19	OW-2-47	60.5'	30	19	MP-2-3S	29.50	19.8	2.84	0.2
OW-2-40	61.7'	45	20	ID	DO (mg/L) Middle	DO (n To		MP-2-3D	29.73	20.9	2.46	0.1
OW-2-41	61.7'	50	20	MP-2-2	3.00	2.5	59	MP-2-4	18.27	26.5	1.62	0
OW-2-42	61.6'	30	20	MP-2-3S	1.94	2.5	58	MP-2-5	16.49	30.4	2.44	0
OW-2-43	61.4'	45	20	MP-2-3D	2.91	3.1	4					
OW-2-44R	60.6'	30	20	MP-2-5	2.38	2.1	3					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	vas no greater than	the pressure	s provided in th	ne hydrostatic ta	ables prepared

Comments: by URS Corporation after collecting readings.

# SYSTEM #2

		]	Date:	8/9/2012
		npa		
	OPERATIONAL NO'	TES		
GA5 Air Compressor 1) Oil Level Checked with system unloaded*		Yes X	No	
* Unload system, wait until Delivery Air Pres	ssura is lass than 9 psi		NO	
2) Oil Level with system unloaded	ssure is less than 9 psi			
Low (red)	Normal (green)	X High (ora	nga)	
3) Oil added	Vec Vec			
4) Oil changed	Yes		No <u>X</u> No <u>X</u>	
5) Oil filter changed	Yes		No X	
6) Air filter Changed	Yes Yes		No X	
7) Oil separator cleaned	Ves		No X	
8) Terminal strips checked	Yes X		No	
o) remina sups checked				
AS-80 O <sub>2</sub> Generator				
1) Prefilter changed	Yes		No X	
2) Coalescing changed	Yes Yes		No <u>X</u> No X	
	GENERAL SYSTEM N	OTES		
Trailer				
1) Performed general housekeeping (i.e. sweep,		2.)		
	Yes X		No	
2) Abnormal conditions observed (e.g. vandalist	m)			
3) Other major activities completed				
4) Supplies needed				
5) Visitors				
Record routine activities such as any alarm/shutdowns, s	L 0,	ial		
transported off-site, oil/filter/gasket and/or any other abi	normal operating conditions:			
Soaked up a small amount of oil and water from separator for				
up all garbage & leaves from around fence areas. Cleaned a	ir filter on A/C unit and change	d fresh air intake file	r on air compressor	r.
Electric Meter # 96-929-544 tied into Pole #3				
Action Items:				

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Wea Outdoor Te Inside Trailer	nte: ne: ther: emperature: Temperature: ned By:	12 Su ~9 ~8	/2012 249 2° F 0° F e Ryan	- - - -							
	O <sub>2</sub> Ger	<mark>erator (Ai</mark> i	rSep)				Com	<mark>pressor (Kaesa</mark>	a <mark>r Rotary</mark>	Screw)	
Hours			14,119	-	Compressor	r Tank *			85		(psi)
Feed Air Press	ure *		105	(psi)			(readings	s below are mad	le from co	ontrol panel)	
Cycle Pressure	*		60	(psi)	Delivery Ai Element Ou		erature		109 176		(psi) (°F)
Dxygen Receiv	ver Pressure *			115 (psi)	Running Ho Loading Ho				14,261 14,037		(hours) (hours)
	g during loading c		94.9	_(percent)	O <sub>2</sub> Injection						
	g during loading c Injection Ba	ink A			O <sub>2</sub> Injection Injection Ba	n System #	2		(r)	jection Bank C	
	g during loading c		94.9		O <sub>2</sub> Injection	<mark>n System</mark> #			In Depth 97.2'	jection Bank ( scfh 40	28
maximum readin	g during loading c Injection Ba Depth	nk A scfh	psi		O <sub>2</sub> Injection Injection Ba Depth	n System # nk B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	g during loading c Injection Ba Depth 90.2'	mk A scfh 30	<b>psi</b> 28	ID 0W-2-9S	O2 Injection Injection Ba Depth 75'	n System # nk B scfh 30	2 psi 20	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	<b>scfh</b> 40	scfh 28
ID OW-2-2 OW-2-3	g during loading c Injection Ba Depth 90.2' 94.3'	nnk A scfh 30 60	28 20	ID OW-2-9S OW-2-10S	O2 Injection Ba Injection Ba Depth 75' 75'	n System # nk B scfh 30 40	2 psi 20 30	ID OW-2-10D OW-2-11D	<b>Depth</b> 97.2' 100.8'	scfh 40 30	scfh 28 32
maximum readin ID OW-2-2 OW-2-3 OW-2-4	g during loading c Injection Ba Depth 90.2' 94.3' 94.7'	mk A sefh 30 60 30	28 20 32	ID           0W-2-9S           0W-2-10S           0W-2-11S	O2 Injection Ba Injection Ba 75' 75' 75'	n System # nk B scfh 30 40 30	2 psi 20 30 22	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh           40           30           30	scfh           28           32           20
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5	g during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	mk A scfh 30 60 30 25	28 28 20 32 30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S	O2 Injection Ba Injection Ba 75' 75' 76.5' 75'	n System # nk B scfh 30 40 30 30 30	2  psi 20 30 22 20 20 20 20 20 20 20 20 20 20 20 20	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh 40 30 30 50	scfh           28           32           20           38
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5           0W-2-6	g during loading c Injection Ba 0epth 90.2' 94.3' 94.7' 95.3' 95.7'	mk A scfh 30 60 30 25 30	psi           28           20           32           30           30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S           0W-2-15S	O2 Injection Ba Injection Ba 75' 75' 76.5' 75' 75'	n System # nk B scfh 30 40 30 30 0FF	2      psi      20      30      22      20      OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	sefh           40           30           30           50           40	scfh           28           32           20           38           28

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.

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		8/3	1/2012	
					O <sub>2</sub> Injectior	<mark>System #2</mark>	2					
	Injection Ba	ink D			Injection Ba				Iı	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	sc	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	O	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	O	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	35	2	:8
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	45	2	7
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	2	:8
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	30	3	7
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	40	3	60
Comments:	by URS Corporation	on after collect	· ·	njection banks D &	E are turned of O <sub>2</sub> Injection	f. 1 System #2		vas no greater than	the pressure	ss provided in u		ables prepared
	Injection Ba	nk G			Injection Ba	nk H			Mon	itoring 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	23	MP-2-1	28.60	24.8	2.31	0
OW-2-38	62.1'	40	19	OW-2-46	61'	30	21	MP-2-2	29.73	20.9	2.68	0
OW-2-39	60'	40	19	OW-2-47	60.5'	30	20	MP-2-3S	29.84	22.1	3.08	0.2
OW-2-40	61.7'	30	20	ID	DO (mg/L) Middle	DO (n To	0 /	MP-2-3D	30.06	22.4	2.49	0.3
OW-2-41	61.7'	30	20	MP-2-2	3.41	3.2	25	MP-2-4	18.61	24.5	2.23	0
OW-2-42	61.6'	30	19	MP-2-3S	2.25	3.1	9	MP-2-5	16.85	21.4	2.89	0
OW-2-43	61.4'	40	20	MP-2-3D	3.04	3.7	74					
OW-2-44R	60.6'	30	20	MP-2-5	3.03	2.6	56					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	vas no greater than	the pressure	es provided in tl	ne hydrostatic t	ables prepared

Comments: by URS Corporation after collecting readings.

# SYSTEM #2

				Date:	8/31/2012
<b>a</b> . <b>.</b>	~	OPERATIONAL NO'	TES		
GA5 Air	Compressor				N.
	1) Oil Level Checked with system unloaded*		Yes	X	No
	* Unload system, wait until Delivery Air Pre	ssure is less than 9 psi			
	2) Oil Level with system unloaded				
		X Normal (green)	High	(orange)	
	3) Oil added	Yes X		No_	
	4) Oil changed	Yes		No_	X
	5) Oil filter changed	Yes X Yes		No_	X X
	6) Air filter Changed	Yes		No	X
	7) Oil separator cleaned	Yes YesX		No	X
	8) Terminal strips checked	Yes X		No_	
15 80 0	Generator				
A3-80 U	1) Prefilter changed	Vac V		No	
	2) Coalescing changed	Yes X Yes		No	X
	2) Coalescing changed	1es		NO_	<u></u>
		GENERAL SYSTEM N	OTES		
Trailer					
	1) Performed general housekeeping (i.e. sweep,	collect trash inside and out, etc	c.)		
		Yes X		No	
	2) Abnormal conditions observed (e.g. vandalist	m)			
	3) Other major activities completed				
	4) Supplies needed				
	5) Visitors				
<b>л</b> 1		<b>.</b>			
	outine activities such as any alarm/shutdowns, s		nal		
transpor	ted off-site, oil/filter/gasket and/or any other abi	normal operating conditions:			
Soaked u	p a small amount of oil and water from separator for	or disposal. Added oil to comp	ressor and change	ed fresh air	intake filers. Changed pre-filter on oxyg
generator	. Wiped down all equipment and cleaned up all ga	rbage & leaves from around fer	nce areas. Starte	d to pull we	eds around shed enclosure.
Electric I	Aeter # 96-929-544 tied into Pole #3				
Action I	ems:				

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Date:       9/14/2012         Time:       1239         Weather:       Sunny         Outdoor Temperature:       ~81° F         Inside Trailer Temperature:       ~75° F         Performed By:       Mike Ryan         Og Generator (AirSep)			239 inny 1° F 5° F	- - - - -							
	O <sub>2</sub> Gen	<mark>erator (Ai</mark> i	rSep)		Compressor (Kaesar Rotary Screw)						
Hours			14,455	-	Compresso	r Tank *			115		(psi)
Feed Air Press	ure *		95	(psi)	(readings below are made from control panel)						
Cycle Pressure	· *		60	(psi)	Delivery A Element Ou					(psi) (°F)	
Dxygen Receiver Pressure *(psi			100 (psi)	Running Ho Loading Ho				14,597 14,359		(hours) (hours)	
Dxygen Purity	ng during loading c		97.9	_(percent)	O <sub>2</sub> Injection			2			
maximum readin	ng during loading cy Injection Ba	nk A			O <sub>2</sub> Injection Injection Ba	n System # ink B	2		(r)	ijection Bank (	
	ng during loading c		97.9 <b>psi</b> 31	<u> </u>	O <sub>2</sub> Injection	n System #		e ID OW-2-10D	<b>In</b> <b>Depth</b> 97.2'	ijection Bank ( scfh 35	2 scfh 28
ID	ng during loading cy Injection Ba Depth	nk A scfh	psi		O <sub>2</sub> Injection Injection Ba Depth	n System # ink B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	g during loading c: Injection Ba Depth 90.2'	nk A scfh 30	<b>psi</b> 31	0W-2-9S	O2 Injection Injection Ba Depth 75'	n System # mk B scfh 35	2 psi 20	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	<b>scfh</b> 35	scfh 28
ID OW-2-2 OW-2-3	g during loading c Injection Ba Depth 90.2' 94.3'	mk A scfh 30 50	<b>psi</b> 31 21	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	n System # mk B scfh 35 45	2 psi 20 30	<b>ID</b> OW-2-10D OW-2-11D	<b>Depth</b> 97.2' 100.8'	scfh 35 30	scfh 28 32
ID OW-2-2 OW-2-3 OW-2-4	g during loading c: Injection Ba Depth 90.2' 94.3' 94.7'	mk A scfh 30 50 30	<b>psi</b> 31 21 30	ID           0W-2-9S           0W-2-10S           0W-2-11S	O2 Injection Injection Ba Depth 75' 75' 76.5'	n System # nk B scfh 35 45 35	2 psi 20 30 22	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh           35           30           30	scfh 28 32 19
maximum readin           ID           OW-2-2           OW-2-3           OW-2-4           OW-2-5	g during loading c: Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	nk A scfh 30 50 30 40	<b>psi</b> 31 21 30 30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S	O2 Injection Injection Ba Depth 75' 75' 76.5' 75'	n System # nk B scfh 35 45 35 35 35	2 psi 20 30 22 20 20	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh           35           30           30           70	scfh 28 32 19 29
ID           ID           OW-2-2           OW-2-3           OW-2-4           OW-2-5           OW-2-6	g during loading c: Injection Ba 90.2' 94.3' 94.7' 95.3' 95.7'	scfh           30           50           30           40           30	psi           31           21           30           30           30           30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S           0W-2-15S	O2 Injection Ba Injection Ba 75' 75' 75' 76.5' 75' 75'	n System # ink B scfh 35 45 35 35 35 OFF	2 20 20 30 22 20 0FF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	scfh           35           30           30           70           35	scfh 28 32 19 29 29

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.

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		9/14	4/2012	
					O <sub>2</sub> Injection	<mark>1 System #</mark> 2	2					
	Injection Ba	ank D			Injection Ba				Ir	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	so	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	0	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	0	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	2	28
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	30	2	7
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	50	2	8
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	60	3	6
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	40	3	3
Comments:	All injection point by URS Corporati		· ·	njection banks D &	•	f.	-	vas no greater than	the pressure	es provided in tl	ne hydrostatic t	ables prepared
	Injection Ba	ınk G			Injection Ba	nk H			Mon	itoring 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'	30	20	OW-2-45	61.1'	40	21	MP-2-1	28.83	23.7	2.50	0
OW-2-38	62.1'	30	20	OW-2-46	61'	45	19	MP-2-2	29.94	17.6	2.89	0
OW-2-39	60'	40	18	OW-2-47	60.5'	30	20	MP-2-3S	29.96	20.9	2.87	0.2
OW-2-40	61.7'	30	20	ID	DO (mg/L) Middle	DO (n To	0 /	MP-2-3D	30.09	22.3	2.55	0.1
OW-2-41	61.7'	50	19	MP-2-2	3.49	3.6	50	MP-2-4	18.82	21.3	1.96	0.4
OW-2-42	61.6'	60	20	MP-2-3S	3.01	3.1	2	MP-2-5	17.03	23.9	2.05	1.5
OW-2-43	61.4'	30	20	MP-2-3D	2.99	3.1	4					
OW-2-44R	60.6'	30	20	MP-2-5	2.22	2.3	39					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	vas no greater than	the pressure	es provided in t	ne hydrostatic t	ables prepared

Comments: by URS Corporation after collecting readings.

# SYSTEM #2

		Date:	9/14/2012
		<b>77</b> 70	
	OPERATIONAL NO	TES	
GA5 Air Compressor	1 14	37 37	N
1) Oil Level Checked with system unlo		Yes X	No
* Unload system, wait until Delivery	y Air Pressure is less than 9 psi		
2) Oil Level with system unloaded		<b>X H H</b>	
	ed) 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 <sub>2</sub> Generator			
1) Prefilter changed	Vac V	No	
2) Coalescing changed	Yes X Yes	No	X
2) Coalescing changed	165	110	<u></u>
	GENERAL SYSTEM N	OTES	
Trailer			
1) Performed general housekeeping (i.e		c.)	
	Yes X	No	
		_	
2) Abnormal conditions observed (e.g.	vandalism)		
3) Other major activities completed			
() Sumplies maded			
4) Supplies needed			
5) Visitors			
Record routine activities such as any alarm/shut	downs, sampling, maintenance, mate	rial	
transported off-site, oil/filter/gasket and/or any o			
	r C		
Soaked up a small amount of oil and water from se	energian fan dienergel. Cleaned ein een dit	ionon filton and fusch air film	A directed halt tonging on air commences
	-		s. Adjusted ben tension on air compressor
and booster pump. Wiped down all equipment and	cleaned up all garbage & leaves from a	round tence areas.	
Electric Meter # 96-929-544 tied into Pole #3			
Electric Mieler # 90-929-344 tied fillo Pole #3			
A			
Action Items:			

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Date:9/27/2012Time:1252Weather:RainOutdoor Temperature:~77° Fnside Trailer Temperature:~72° FPerformed By:Mike RyanO2 Generator (AirSep)				- - - -							
	O <sub>2</sub> Gen	<mark>erator (Ai</mark>	rSep)				Com	pressor (Kaesa	<mark>ar Rotary</mark>	Screw)	
Iours			14,791	-	Compresso	r Tank *			95		(psi)
Feed Air Press	ure *		110	(psi)	(readings below are made from cont					ontrol panel)	
Cycle Pressure	e Pressure * 60 (psi) Delivery Air 105 Element Outlet Temperature 174							(psi) (°F)			
Dxygen Receiver Pressure * 10 (psi)			100 (psi)	Running Ho Loading Ho				14,933 14,682		(hours) (hours)	
Dxygen Purity maximum readin	ng during loading c		97.7	_(percent)	O <sub>2</sub> Injection					india Bark (	
	ng during loading c Injection Ba	ink A		<u> </u>	O <sub>2</sub> Injection Injection Ba	n System #	2			jection Bank C	scfh
maximum readin	ng during loading c		97.7 <b>psi</b> 33		O <sub>2</sub> Injection	n System #			In Depth 97.2'	jection Bank C scfn 30	
maximum readin	ng during loading c Injection Ba Depth	nk A scfh	psi		O2 Injection Injection Ba Depth	n System #	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	ng during loading c Injection Ba Depth 90.2'	mk A	<b>psi</b> 33	0W-2-9S	O2 Injection Injection Ba Depth 75'	n System #	2 psi 21	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	scfh 30	scfh 29
ID OW-2-2 OW-2-3	ng during loading c Injection Ba Depth 90.2' 94.3'	nnk A scfh 50 50	<b>psi</b> 33 30	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	System #           nk B           scfh           40           50	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>ID</b> OW-2-10D OW-2-11D	<b>Depth</b> 97.2' 100.8'	scfh         30           30         30	scfh 29 32
maximum readin ID OW-2-2 OW-2-3 OW-2-4	Injection Ba Injection Ba Depth 90.2' 94.3' 94.7'	mk A sefh 50 50 40	<b>psi</b> 33 30 32	ID           0W-2-9S           0W-2-10S           0W-2-11S	O2     Injection       Injection Ba     Depth       75'     75'       75'     75'	System #           nk B           scfh           40           50           35	2 psi 21 30 22	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh         30           30         30           30         30	scfh 29 32 20
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	mk A scfh 50 50 40 20	<b>psi</b> 33 30 32 30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S	O2         Injection           Injection Ba         Depth           75'         75'           75'         75.5'           76.5'         75.5'	System #           nk B           scfh           40           50           35           35	2 psi 21 30 22 20 20	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh         30           30         30           30         30           50         50	scfh 29 32 20 32
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5           0W-2-6	ng during loading c Injection Bz 0 0.2' 94.3' 94.7' 95.3' 95.7'	mk A scfh 50 50 40 20 30 30	psi           33           30           32           30           30           30	ID           OW-2-9S           OW-2-10S           OW-2-11S           OW-2-13S           OW-2-15S	O2         Injection           Injection Ba         Depth           75'         75'           76.5'         75'           75'         75'	System #           nk B           scfh           40           50           35           35           OFF	2 psi 21 21 30 22 20 OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	scfh         30           30         30           30         30           30         30           30         30           30         30           30         30           30         30           30         30           30         30           30         30           50         35	scfh           29           32           20           32           20           32           20           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 prepare by URS Corporation after collecting readings.

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		9/27	7/2012	
					O <sub>2</sub> Injectior	<mark>1 System #</mark> 2	2					
	Injection Ba	ink D			Injection Ba				Ir	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	so	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	0	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	0	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	2	8
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	30	2	7
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	50	3	4
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	40	3	9
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	30	3	5
Comments:	by URS Corporati	on after collect		njection banks D &	E are turned of O <sub>2</sub> Injection	f. 1 System #2		vas no greater than			-	liones prepilied
	Injection Ba	ink G			Injection Ba	nk H	1		Mon	itoring 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'	30	20	OW-2-45	61.1'	30	21	MP-2-1	28.95	23.4	2.51	0
OW-2-38	62.1'	30	20	OW-2-46	61'	30	19	MP-2-2	30.03	16.6	2.12	0
OW-2-39	60'	50	18	OW-2-47	60.5'	30	20	MP-2-3S	30.10	18.1	2.81	0.3
OW-2-40	61.7'	30	20	ID	DO (mg/L) Middle	DO (n To	0 /	MP-2-3D	30.35	19.8	2.62	0.1
OW-2-41	61.7'	50	19	MP-2-2	2.35	2.7	12	MP-2-4	18.92	26.5	1.91	0
OW-2-42	61.6'	60	19	MP-2-3S	2.06	3.2	21	MP-2-5	17.13	29.7	2.05	0
OW-2-43	61.4'	30	20	MP-2-3D	2.76	3.1	1					
OW-2-44R	60.6'	25	20	MP-2-5	2.39	2.2	26					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	vas no greater than	the pressure	s provided in th	ne hydrostatic t	ables prepared

Comments: by URS Corporation after collecting readings.

# SYSTEM #2

	Date:	9/27/2012
OPERATIONAL NOT	res	
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	Х
5) Oil filter changed Yes	No	X
6) Air filter Changed Yes	No	Х
7) Oil separator cleaned Yes	No	X
8) Terminal strips checked Yes X	No	
AS-80 O <sub>2</sub> Generator		
1) Prefilter changed     Yes X	No	
2) Coalescing changed Yes	No	X
	110	<u> </u>
GENERAL SYSTEM N	OTES	
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, mater	ial	
transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:		
Soaked up a small amount of oil and water from separator for disposal. Cleaned out separat	tor discharge line clogged wi	ith silt. Added small amount of oil to
compressor. Wiped down all equipment and cleaned up all garbage & leaves from around f 3D and MP-2-3S manholes can no longer be serviced and need to be replaced.	fence areas. The threads on t	he bolt holes of monitoring points MP-2-
Electric Meter # 96-929-544 tied into Pole #3		
Action Items:		

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Date:10/8/2012Time:1150Weather:RainOutdoor Temperature:~59° Fnside Trailer Temperature:~70° FPerformed By:Mike Ryan			- - - -								
	O <sub>2</sub> Gen	<mark>erator (Ai</mark> i	rSep)		Compressor (Kaesar Rotary Screw)						
Hours			15,029	-	Compressor Tank * 85 (ps						
Feed Air Press	ure *		100	(psi)	(readings below are made from control panel)						
Cycle Pressure *     60     (psi)     Delivery Air     112       Element Outlet Temperature     172						(psi) (°F)					
Dxygen Receiver Pressure * 1 (psi)			120 (psi)	Running Ho Loading Ho				15,171 14,910		(hours) (hours)	
Oxygen Purity maximum readir	ng during loading c		96.9	_(percent)	O <sub>2</sub> Injection			2			
maximum readir	ng during loading cy Injection Ba	ink A			O <sub>2</sub> Injection Injection Ba	n System # ank B	2		(r)	jection Bank C	
	ng during loading c		96.9		O <sub>2</sub> Injection	n System #			In Depth 97.2'	jection Bank C scfh 40	<mark></mark>
maximum readir	ng during loading cy Injection Ba Depth	nk A scfh	psi		O <sub>2</sub> Injection Injection Ba Depth	n System # ink B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	ng during loading c Injection Ba Depth 90.2'	mk A	<b>psi</b> 31	ID OW-2-9S	O2 Injection Injection Ba Depth 75'	n System # mk B scfh 40	2 psi 20	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	<b>scfh</b> 40	scfh 29
ID OW-2-2 OW-2-3	ng during loading c Injection Ba Depth 90.2' 94.3'	nnk A scfh 40 40	<b>psi</b> 31 29	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	n System # mk B scfh 40 50	2 psi 20 30	D 0W-2-10D 0W-2-11D	<b>Depth</b> 97.2' 100.8'	scfh 40 30	scfh 29 33
ID           0W-2-2           0W-2-3           0W-2-4	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7'	mk A scfh 40 40 50	<b>psi</b> 31 29 32	ID OW-2-9S OW-2-10S OW-2-11S	O2 Injection Injection Ba Depth 75' 75' 76.5'	n System # mk B 40 50 40	2 psi 20 30 21	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh           40           30           30	scfh 29 33 19
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5	ng during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	mk A scfh 40 40 50 30	<b>psi</b> 31 29 32 30	ID           OW-2-9S           OW-2-10S           OW-2-11S           OW-2-13S	O2 Injection Injection Ba Depth 75' 75' 76.5' 75'	n System # mk B scfh 40 50 40 30	2 psi 20 30 21 19 19	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh 40 30 30 60	scfh 29 33 19 22
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5           0W-2-6	ng during loading c Injection Bz 0 0 0.2' 94.3' 94.7' 95.3' 95.7'	mk A scfh 40 40 50 30 40	psi           31           29           32           30           30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S           0W-2-15S	O2 Injection Ba Injection Ba 75' 75' 75' 76.5' 75' 75'	n System # unk B scfh 40 50 40 30 OFF	2 20 20 30 21 19 OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	scfh           40           30           30           60           50	scfh 29 33 19 22 27

Comments:

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

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		10/8	8/2012	
					O <sub>2</sub> Injectior	<mark>1 System #</mark> 2	2					
	Injection Ba	ink D			Injection Ba				Iı	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	so	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	0	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	0	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	25	2	8
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	30	2	7
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	40	2	4
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	40	3	1
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	30	3	3
Comments:	All injection point by URS Corporation		· ·	njection banks D &	-	f.		vas no greater than	the pressure	es provided in the	he hydrostatic t	ables prepared
	Injection Ba	nk G			Injection Ba	nk H			Mon	itoring 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'	30	20	OW-2-45	61.1'	30	21	MP-2-1	29.07	23.4	2.90	0
OW-2-38	62.1'	30	19	OW-2-46	61'	25	20	MP-2-2	30.15	17.2	3.52	0
OW-2-39	60'	40	18	OW-2-47	60.5'	25	20	MP-2-3S	30.26	19.4	3.40	0.5
OW-2-40	61.7'	30	20	ID	DO (mg/L) Middle	DO (n To		MP-2-3D	30.46	20.1	2.41	0.4
OW-2-41	61.7'	35	19	MP-2-2	3.66	4.0	)4	MP-2-4	19.00	27.7	2.42	0.1
OW-2-42	61.6'	30	19	MP-2-3S	2.36	2.7	74	MP-2-5	17.22	28.9	2.73	0
OW-2-43	61.4'	30	20	MP-2-3D	3.04	3.9	)7					
OW-2-44R	60.6'	30	20	MP-2-5	2.81	2.8	37					
Comments:	All injection point			get flow rate of ~30	) scfh provided	that the pressu	ire reading v	vas no greater than	the pressure	es provided in t	he hydrostatic t	ables prepared

Comments: by URS Corporation after collecting readings.

### SYSTEM #2

		Date:	10/8/2012
		MDDO	
	OPERATIONAL NO	DTES	
GA5 Air Compressor	J- J*	Vac V	Na
1) Oil Level Checked with system unloa		Yes X	No
* Unload system, wait until Delivery .	Air Pressure is less than 9 psi		
2) Oil Level with system unloaded	Name al (ana an)	V IIich (company)	
Low (red	) Normal (green)	X High (orange)	V
3) Oil added	Yes Yes	No No	$\frac{\Lambda}{v}$
<ul><li>4) Oil changed</li><li>5) Oil filter changed</li></ul>	Yes		A v
6) Air filter Changed	Yes	No No No	A V
7) Oil separator cleaned	Yes		A V
8) Terminal strips checked	Yes Yes X	No No	<u>A</u>
8) Terminar surps checked			
AS-80 O <sub>2</sub> Generator			
1) Prefilter changed	Yes	No	Х
2) Coalescing changed	Yes Yes	No No	X
, , ,			
	GENERAL SYSTEM	NOTES	
Trailer			
1) Performed general housekeeping (i.e.			
	Yes X	No	
<b>2 1 1 1 1 1 1 1</b> 1			
2) Abnormal conditions observed (e.g. v	andalism)		
3) Other major activities completed			
5) Other major activities completed			
4) Supplies needed			
5) Visitors			
Record routine activities such as any alarm/shutde	owns, sampling, maintenance, mate	erial	
transported off-site, oil/filter/gasket and/or any ot			
	L G		
Soaked up a small amount of oil and water from sepa	rator for disposal. Found solenoid va	alve on air separator water drain	stuck open. Took apart valve and
cleaned out silt buildup and reinstalled. Wiped down	-	-	
· · ·		2	
Please note the threads on the bolt holes of monitorin	g points MP-2-3D and MP-2-3S man	holes can no longer be serviced	and need to be replaced.
Electric Meter # 96-929-544 tied into Pole #3			
Action Items:			

## SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

Weather:RaOutdoor Temperature:~57Inside Trailer Temperature:~68Performed By:Mike		4/2012 3:12 ain 7° F 8° F 2 Ryan	- - - -								
	O <sub>2</sub> Gen	<mark>ierator (Ai</mark> i	rSep)		Compressor (Kaesar Rotary Screw)						
Hours			15,415	-	Compresso	r Tank *		95			(psi)
Feed Air Press	ure *		90	(psi)			(reading	gs below are made from control pane			
Cycle Pressure	,*		60	(psi)	Delivery A Element Ou		erature		92 174		(psi) (°F)
Dxygen Receiv	ver Pressure *			110 (psi)	Running Ho Loading Ho				15,557 15,279		(hours) (hours)
	ng during loading c		97.8	_(percent)	O <sub>2</sub> Injection	<u> </u>		2		in the Day L	
	ng during loading c Injection Ba	nk A			O <sub>2</sub> Injection Injection Ba	n System #	2			ijection Bank (	
	ng during loading c		97.8 psi 34	(percent)	O <sub>2</sub> Injection	n System #			In Depth 97.2'	rjection Bank ( scfh 30	2 scfh 28
maximum readin	ng during loading cy Injection Ba Depth	nk A scfh	psi	ID	O2 Injection Injection Ba Depth	n System # mk B scfh	2 psi	ID	Depth	scfh	scfh
ID OW-2-2	ng during loading c Injection Ba Depth 90.2'	<b>nk A</b> scfh 40	psi 34		O2 Injection Injection Ba Depth 75'	n System # mk B Scfh 30	2 psi 20	<b>ID</b> OW-2-10D	<b>Depth</b> 97.2'	<b>scfh</b> 30	<b>scfh</b> 28
ID OW-2-2 OW-2-3	g during loading c	mk A scfh 40 80	<b>psi</b> 34 29	ID OW-2-9S OW-2-10S	O2 Injection Injection Ba Depth 75' 75'	n System # mk B Scfh 30 50	2 psi 20 30	ID OW-2-10D OW-2-11D	<b>Depth</b> 97.2' 100.8'	<b>sefh</b> 30 40	scfh 28 32
ID OW-2-2 OW-2-3 OW-2-4	g during loading c Injection Ba Depth 90.2' 94.3' 94.7'	mk A scfh 40 80 35	<b>psi</b> 34 29 33	ID OW-2-9S OW-2-10S OW-2-11S	O2 Injection Injection Ba Depth 75' 75' 76.5'	n System # mk B 30 50 35	2 psi 20 30 21	ID OW-2-10D OW-2-11D OW-2-12	Depth           97.2'           100.8'           94'	scfh 30 40 30	scfh           28           32           20
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5	g during loading c Injection Ba Depth 90.2' 94.3' 94.7' 95.3'	mk A sefh 40 80 35 30	<b>psi</b> 34 29 33 30	ID           OW-2-9S           OW-2-10S           OW-2-11S           OW-2-13S	O2         Injection           Injection Ba         Depth           75'         75'           75'         75'           76.5'         75'	n System # mk B  scfh  30  50  35  40	2 psi 20 30 21 18	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D	Depth           97.2'           100.8'           94'           97'	scfh 30 40 30 50	scfh           28           32           20           30
ID           0W-2-2           0W-2-3           0W-2-4           0W-2-5           0W-2-6	10 during loading c 10 Jupiction Ba 0 Depth 90.2' 94.3' 94.7' 95.3' 95.7'	mk A sefh 40 80 35 30 30	psi           34           29           33           30           30	ID           0W-2-9S           0W-2-10S           0W-2-11S           0W-2-13S           0W-2-15S	O2         Injection           Injection Ba         Depth           75'         75'           75'         75'           75'         75'           75'         75'	n System # nk B scfh 30 50 35 40 OFF	2 psi 20 30 21 18 OFF	ID           OW-2-10D           OW-2-11D           OW-2-12           OW-2-13D           OW-2-14	Depth           97.2'           100.8'           94'           97'           96.4'	scfh 30 40 30 50 40	sefh           28           32           20           30           29

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.

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

								Date:		10/2	4/2012	
					O <sub>2</sub> Injectior	<mark>1 System #</mark> 2	2					
	Injection Ba	ink D			Injection Ba				Iı	ijection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	so	fh
OW-2-18D	95.5'	OFF	OFF	OW-2-22S	76'	OFF	OFF	OW-2-26D	95'	OFF	0	FF
OW-2-19	96.1'	OFF	OFF	OW-2-24S	77.8'	OFF	OFF	OW-2-27	93.5'	OFF	0	FF
OW-2-20D	96.6'	OFF	OFF	OW-2-26S	74'	OFF	OFF	OW-2-28D	92.1'	OFF	0	FF
OW-2-21	96.6'	OFF	OFF	OW-2-28S	76'	OFF	OFF	OW-2-29	92.2'	30	2	8
OW-2-22D	96.3'	OFF	OFF	OW-2-30S	67.8'	OFF	OFF	OW-2-30D	88'	30	2	7
OW-2-23	97.2'	OFF	OFF	OW-2-34	71'	OFF	OFF	OW-2-31	86'	20	2	9
OW-2-24D	97'	OFF	OFF	OW-2-35	69.2'	OFF	OFF	OW-2-32	84'	25	2	5
OW-2-25	96'	OFF	OFF	OW-2-36	64.8'	OFF	OFF	OW-2-33	82'	30	2	9
Comments:	by URS Corporation		ing readings. In		E are turned of O <sub>2</sub> Injection Injection Ba	<mark>1 System #</mark> 2	2		Mon	itoring 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'	30	20	OW-2-45	61.1'	30	19	MP-2-1	29.29	24.3	2.85	0
OW-2-38	62.1'	30	18	OW-2-46	61'	30	18	MP-2-2	30.37	18.5	2.63	0
OW-2-39	60'	40	19	OW-2-47	60.5'	30	18	MP-2-3S	30.50	20.9	2.90	0.4
OW-2-40	61.7'	30	20	ID	DO (mg/L) Middle	DO (n To		MP-2-3D	30.72	20.9	2.65	0.4
OW-2-41	61.7'	40	19	MP-2-2	3.84	3.9	97	MP-2-4	19.25	26.5	2.33	0
OW-2-42	61.6'	30	20	MP-2-3S	2.27	3.6	56	MP-2-5	17.48	29.9	3.21	0
OW-2-43	61.4'	20	20	MP-2-3D	2.96	3.3	31					
OW-2-44R	60.6'	25	20	MP-2-5	3.37	4.4	16					
OW-2-44R Comments:		flows were ad	justed to the tar					vas no greater than	the pressure	es provided in t	ne hydrostatic t	ables prepared

Comments: by URS Corporation after collecting readings.

## SYSTEM #2

		Date:	10/24/2012
	OPERATIONAL NOTES		
GA5 Air Compressor		Vac V	Na
1) Oil Level Checked with system unloaded*	na ia laga than 0 nai	Yes X	No
* Unload system, wait until Delivery Air Pressu	re is less than 9 psi		
2) Oil Level with system unloaded		V II's h (second)	
Low (red)	Normal (green)	X High (orange)	
3) Oil added	Yes	No Z	
4) Oil changed	Yes	No Z	
5) Oil filter changed	Yes Yes	No Z	<u>X</u>
6) Air filter Changed	Yes	No Z	<u>X</u>
7) Oil separator cleaned	Yes Yes X	No Z	<u>X</u>
8) Terminal strips checked	Yes X	No	
AS-80 O <sub>2</sub> Generator			
1) Prefilter changed	Yes	No Z	X
2) Coalescing changed	Yes	No 2 No 2	X
2) Courseing enanged		110	· <u>·</u>
	GENERAL SYSTEM NOT	ES	
Trailer	leat trach incide and out ate.)		
1) Performed general housekeeping (i.e. sweep, co		N	
	Yes X	No	
2) Abnormal conditions observed (e.g. vandalism)			
2) Abhormaí conditions observed (e.g. vandarism)			
3) Other major activities completed			
4) Supplies needed			
5) Vicitors			
5) Visitors			
Record routine activities such as any alarm/shutdowns, sam	pling, maintenance, material		
transported off-site, oil/filter/gasket and/or any other abnor			
Soaked up a small amount of oil and water from separator for d	isposal. Replaced 60 watt light	bulb in shed. Wiped down	all equipment and cleaned up all
garbage & leaves from around fence areas. Restarted all injection			
Met with Kirk White of URS and showed him that the threads of	on the bolt holes of monitoring p	oints MP-2-3D and MP-2-3	3S manholes can no longer be serviced
and need to be replaced. In addition, during the walkthrough w	ith Kirk, it was noted that the th	reads on the bolt holes of m	nonitoring point MP-2-1 can no longer
be serviced and needs to be replaced.			
Electric Meter # 96-929-544 tied into Pole #3			
A stime Teams			
Action Items:			

### SYSTEM #2

Tir Wea Outdoor Te Inside Trailer	Date:11/13/2012Time:13:15Weather:RainOutdoor Temperature:~49° FInside Trailer Temperature:~70° FPerformed By:Mike Ryan											
	O <sub>2</sub> Ger	<mark>erator (Ai</mark>	rSep)		Compressor (Kaesar Rotary Screw)							
Hours	s <u>15,708</u>					Compressor Tank *95						
Feed Air Press	ure *		80	(psi)			(reading	s below are ma	de from c	ontrol panel	)	
Cycle Pressure	*		60	(psi)	Delivery A Element Ou		rature		109 171		(psi) ( <sup>o</sup> F)	
Oxygen Receiv	cle Pressure * <u>60</u> (psi) ygen Receiver Pressure * <u>115</u> (psi)					ours ours			15,840 15,514		(hours) (hours)	
Oxygen Purity * maximum readir	ng during loading c	cycle	98.1	(percent)		eading during		le				
	Injection Ba	onk A			O <sub>2</sub> Injection Injection Ba	<u> </u>	2		In	jection Bank (	n	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh	
OW-2-2	90.2'	40	29	OW-2-98	75'	25	20	OW-2-10D	97.2'	40	28	
OW-2-3	94.3'	50	21	OW-2-10S	75'	40	30	OW-2-11D	100.8'	40	32	
OW-2-4	94.7'	30	31	OW-2-11S	76.5'	20	21	OW-2-12	94'	30	20	
OW-2-5	95.3'	35	30	OW-2-13S	75'	30	19	OW-2-13D	97'	30	35	
OW-2-6	95.7'	40	30	OW-2-158	75'	30	19	OW-2-14	96.4'	30	28	
OW-2-7	96'	40	29	OW-2-16S	75.5'	30	19	OW-2-15D	94.6'	35	27	
OW-2-8	96.3'	40	29	OW-2-18S	74.5'	25	19	OW-2-16D	94.1'	40	28	
OW-2-9D	96.7'	40	30	OW-2-20S	79'	20	22	OW-2-17	95'	30	28	
		1		1	1	1	1	1				

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

					O <sub>2</sub> Injection	System #2	2					
	Injection Ba	ank D			Injection Ba	nk E			Ir	njection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	sc	fh
OW-2-18D	95.5'	35	32	OW-2-228	76'	30	19	OW-2-26D	95'	30	3	1
OW-2-19	96.1'	40	30	OW-2-24S	77.8'	35	25	OW-2-27	93.5'	30	2'	9
OW-2-20D	96.6'	40	30	OW-2-26S	74'	40	19	OW-2-28D	92.1'	35	2	9
OW-2-21	96.6'	40	29	OW-2-28S	76'	30	21	OW-2-29	92.2'	30	2	8
OW-2-22D	96.3'	30	28	OW-2-30S	67.8'	30	18	OW-2-30D	88'	30	2	8
OW-2-23	97.2'	30	30	OW-2-34	71'	40	20	OW-2-31	86'	40	2	7
OW-2-24D	97'	40	29	OW-2-35	69.2'	40	21	OW-2-32	84'	40	2'	9
OW-2-25	96'	30	29	OW-2-36	64.8'	35	21	OW-2-33	82'	30	3.	5
omments:	All injection poin prepared by URS	Corporation at		eadings. Injection	banks D & E ar	e turned off. System #2		g was no greater that		-	-	c tables
omments:	All injection poin	Corporation at		eadings. Injection	banks D & E ar	e turned off. System #2		g was no greater tha		itoring Points	-	c tables
Domments:	All injection poin prepared by URS	Corporation at		eadings. Injection	banks D & E ar	e turned off. System #2		g was no greater that		-	-	
	All injection poin prepared by URS Injection Ba	Corporation at	Îter collecting re	adings. Injection	banks D & E ar O <sub>2</sub> Injection Injection Ba	e turned off. <b>System #2</b> nk H	2		Mon	itoring Points Oxygen Headspace	Log DO (mg/L)	c tables PID (pp 0
ID	All injection poin prepared by URS Injection Ba	Corporation at ank G scfh	rter collecting re	adings. Injection	banks D & E ar O <sub>2</sub> Injection Injection Ba Depth	e turned off. System #2 nk H scfh	2 psi	ID	Mon	itoring Points Oxygen Headspace (%O2)	Log DO (mg/L) Bottom	PID (p
<b>ID</b> OW-2-37	All injection poin prepared by URS Injection Ba Depth 62.8'	Corporation at ank G scfh 30	psi 20	ID OW-2-45	banks D & E ar O2 Injection Injection Ba Depth 61.1'	e turned off. a System #2 nk H scfh 30	2 psi 22	ID MP-2-1	<b>Mon DTW</b> 29.38	itoring Points Oxygen Headspace (%O2) 24.5	Log DO (mg/L) Bottom 2.48	<b>PID</b> (p. 0
<b>ID</b> OW-2-37 OW-2-38	All injection poin prepared by URS Injection B Depth 62.8' 62.1'	Corporation at ank G scfh 30 30	psi 20 19	ID OW-2-45 OW-2-46	banks D & E ar O2 Injection Injection Ba Depth 61.1' 61'	e turned off.  System #2  scfh  30  30	2 psi 22 19 19 ng/L)		Mon DTW 29.38 30.55	itoring Points Oxygen Headspace (%O2) 24.5 17.7	Log DO (mg/L) Bottom 2.48 3.15	<b>PID</b> (p. 0
D OW-2-37 OW-2-38 OW-2-39	All injection poin prepared by URS Injection B: Depth 62.8' 62.1' 60'	Corporation al ank G scfh 30 30 40	psi 20 19 18	ID           OW-2-45           OW-2-46           OW-2-47	banks D & E ar O <sub>2</sub> Injection Ba Depth 61.1' 61' 60.5' DO (mg/L)	e turned off. a System #2 nk H scfh 30 30 30 DO (m	2 psi 22 19 19 19 19 p	ID MP-2-1 MP-2-2 MP-2-3S	Mon DTW 29.38 30.55 30.52	itoring Points Oxygen Headspace (%O2) 24.5 17.7 20.3	Log DO (mg/L) Bottom 2.48 3.15 2.95	<b>PID (p</b> 0 0.1
D OW-2-37 OW-2-38 OW-2-39 OW-2-40	All injection poin prepared by URS Injection Ba Oepth 62.8' 62.1' 60' 61.7'	Corporation al ank G scfh 30 30 40 30	psi           20           19           18           20	Injection           ID           OW-2-45           OW-2-46           OW-2-47	banks D & E ar O2 Injection Injection Ba Depth 61.1' 61' 60.5' DO (mg/L) Middle	e turned off. a System #2 nk H sefh 30 30 30 DO (m To	2 psi 22 19 19 19 19 19 19	ID MP-2-1 MP-2-2 MP-2-38 MP-2-3D	Mon DTW 29.38 30.55 30.52 30.76	itoring Points Oxygen Headspace (%O2) 24.5 17.7 20.3 21.1	Log DO (mg/L) Bottom 2.48 3.15 2.95 2.39	PID (p 0 0.1
ID           OW-2-37           OW-2-38           OW-2-39           OW-2-40	All injection poin prepared by URS Injection B Depth 62.8' 62.1' 60' 61.7' 61.7'	Corporation al ank G 30 30 40 40 40 40	psi           20           19           18           20           20	Injection           ID           OW-2-45           OW-2-46           OW-2-47           ID           MP-2-2	banks D & E ar O2 Injection Injection Ba Depth 61.1' 61' 60.5' DO (mg/L) Middle 3.38	e turned off.	2 psi 22 19 19 19 24 29	ID           MP-2-1           MP-2-2           MP-2-3S           MP-2-3D           MP-2-4	Mon DTW 29.38 30.55 30.52 30.76 19.29	itoring Points Oxygen Headspace (%O2) 24.5 17.7 20.3 21.1 22.4	Log DO (mg/L) Bottom 2.48 3.15 2.95 2.39 2.08	PID (p) 0 0.1 0

### SYSTEM #2

		Date:	11/13/2012
	<b>OPERATIONAL NO</b>	TES	
GA5 Air Compressor			
<ol> <li>Oil Level Checked with system unloaded*</li> </ol>		Yes X No	
* Unload system, wait until Delivery Air Pr	ressure is less than 9 psi		
2) Oil Level with system unloaded			
Low (red)	Normal (green)	X High (orange)	
3) Oil added	Yes X	No No No No No	
4) Oil changed	Yes X	No	
5) Oil filter changed	Yes X	No	
6) Air filter Changed	Yes X	No	
7) Oil separator cleaned	Yes X	No No	
8) Terminal strips checked	Yes X	No	
AS-80 O <sub>2</sub> Generator			
1) Prefilter changed	Yes X	No	
2) Coalescing changed	Yes X	No	
	GENERAL SYSTEM N	OTES	
	GENERAL SISIEM N	UIES	
Trailer			
1) Performed general housekeeping (i.e. sweep	n collect trash inside and out, etc	:)	
i) i entrinioù general nousekeeping (net sireej	Yes X	No	
	100		
2) Abnormal conditions observed (e.g. vandal	ism		
,			
3) Other major activities completed			
4) Supplies needed			
· · · · ·			
5) Visitors			

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

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

On Monday, October 29, 2012, the area was impacted with a major hurricane, which knocked power out to the system. On Monday, November 5, 2012, we assessed the situation at the system and discovered that the power to the system had been resorred. However, the compressor and booster pump motor control starters were both tripped and needed to be manually reset to restart the system. In addition, the fan motor on the air drywer unit was found in overload and needs to be replaced. The system was restarted and was allowed to buildup pressure before the injections solenoids were reset and injections were restarted. Total down time for this alarm condition was approximately 7 days.

In addition to the power issues caused by the storm, the system shed doors and roof was damaged. Even with the doors deadbolted the pressure gradient caused by the storm ripped them open and broke the doors from the door jams. In addition, some shingles were blown off the roof. The major damage to the doors was repaired on November 8, 2012 and the system was secured.

Performed 12-month O&M on all equipment between 11-6-12 and 11-13-12.

Took apart air compressor and changed filters and cooling oil. Installed new belt on compressor. Cleaned out cooling canister of debris and emptied out oil and water from separator unit. Took apart auto drains on all units and cleaned out silt build up. Changed filters in water trap and replaced o-rings in unit. Flushed out oil building up in base of air separator unit and replaced filters. Greased all fittings on booster pump and changed belt. Changed all fresh air filters in shed. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

The threads on the bolt holes of monitoring points MP-2-1, MP-2-3D and MP-2-3S manholes can no longer be serviced and need to be replaced.

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

Action Items:

### SYSTEM #2

Date:     11/29/2012       Time:     9:15       Weather:     Sunny       Outdoor Temperature:     ~37° F       Inside Trailer Temperature:     ~68° F       Performed By:     Mike Ryan				- - - - -							
	O <sub>2</sub> Ger	<mark>ierator (Ai</mark>	rSep)		Compressor (Kaesar Rotary Screw)						
Hours			15,843	-	Compresso	r Tank *		105			(psi)
Feed Air Press	sure *		75	(psi)			(reading	gs below are made from control panel)			)
Cycle Pressure	*		60	(psi)	Delivery A Element Ou		rature		94 164		(psi) (°F)
Oxygen Receiv	ver Pressure *			110 (psi)	Running Ho Loading Ho				15,975 15,627		(hours) (hours)
Oxygen Purity * maximum readii	ng during loading c	ycle	93.7	(percent)		eading during		le			
	Injection Ba	unk A			O <sub>2</sub> Injection Injection Ba		2		In	jection Bank (	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	40	33	OW-2-9S	75'	20	20	OW-2-10D	97.2'	30	29
OW-2-3	94.3'	45	29	OW-2-10S	75'	30	30	OW-2-11D	100.8'	32	32
OW-2-4	94.7'	30	33	OW-2-11S	76.5'	30	21	OW-2-12	94'	35	20
OW-2-5	95.3'	35	30	OW-2-13S	75'	35	18	OW-2-13D	97'	40	30
OW-2-6	95.7'	30	30	OW-2-15S	75'	40	18	OW-2-14	96.4'	30	29
OW-2-7	96'	30	28	OW-2-16S	75.5'	30	19	OW-2-15D	94.6'	30	28
					74.51	35	19	OW-2-16D 94.1' 30			27
OW-2-8	96.3'	30	29	OW-2-18S	74.5'	55	.,	OW-2-16D 94.1' 30			27
	96.3' 96.7'	30 40	29 29	OW-2-18S OW-2-20S	74.5	35	22	OW-2-17         95'         30         28			

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

					O I	- C						
	Tataataa D			1	O <sub>2</sub> Injection		2		T	te atte e De al 1	<b>P</b>	
ID	Injection Ba	scfh	psi	ID	Injection Ba Depth	nk E scfh	psi	ID	Depth	ijection Bank	r sc	նի
OW-2-18D	95.5'	40	32	OW-2-22S	76'	20	18	OW-2-26D	95'	25	3	
OW-2-19	96.1'	30	28	OW-2-24S	77.8'	20	19	OW-2-27	93.5'	35	2	9
OW-2-20D	96.6'	30	31	OW-2-26S	74'	30	19	OW-2-28D	92.1'	45	2	7
OW-2-21	96.6'	30	29	OW-2-28S	76'	40	19	OW-2-29	92.2'	40	2	6
OW-2-22D	96.3'	35	27	OW-2-30S	67.8'	25	17	OW-2-30D	88'	30	2	5
OW-2-23	97.2'	50	27	OW-2-34	71'	30	19	OW-2-31	86'	30	2	5
OW-2-24D	97'	40	32	OW-2-35	69.2'	30	26	OW-2-32	84'	30	3	6
	0.51	35	29	OW-2-36	64.8'	30	19	OW-2-33	82'	30	3	3
OW-2-25	prepared by URS	t flows were ac Corporation at	ljusted to the ta	rget flow rate of ~3 eadings. Injection	30 scfh provide banks D & E ar O <sub>2</sub> Injection	e turned off. <b>System #</b> 2	sure reading	g was no greater that	in the pressu	ires provided in	-	c tables
OW-2-25	All injection poin	t flows were ac Corporation at	ljusted to the ta	rget flow rate of ~3 eadings. Injection	30 scfh provide banks D & E ar	e turned off. <b>System #</b> 2	sure reading		in the pressu	ires provided in itoring Points	-	c tables
	All injection poin prepared by URS	t flows were ac Corporation at	ljusted to the ta	rget flow rate of ~3 eadings. Injection	30 scfh provide banks D & E ar O <sub>2</sub> Injection	e turned off. <b>System #</b> 2	sure reading		in the pressu	ires provided in	-	c tables
omments:	All injection poin prepared by URS Injection Ba	t flows were au Corporation at mk G	ljusted to the ta	rget flow rate of ~3 adings. Injection	30 scfh provided banks D & E ar O <sub>2</sub> Injection Injection Ba	e turned off. <b>1 System #2</b> nk H	sure reading	g was no greater the	n the pressu Moni	itoring Points Oxygen Headspace	Log DO (mg/L)	
omments:	All injection poin prepared by URS Injection B: Depth	t flows were at Corporation at Ink G scfh	ljusted to the ta trer collecting ro psi	rget flow rate of ~2 eadings. Injection	30 scfh provide banks D & E ar O <sub>2</sub> Injection Injection Ba Depth	e turned off. <b>1 System #2</b> nk H scfh	sure reading	g was no greater that	In the pressu Moni	itoring Points Oxygen Headspace (%O2)	Log DO (mg/L) Bottom	PID (pp
OMMENTS: ID OW-2-37	All injection poin prepared by URS Injection Ba Depth 62.8'	t flows were ac Corporation at ank G scfh 30	ljusted to the ta trer collecting ro psi 19	rget flow rate of ~3 eadings. Injection I ID OW-2-45	0 scfh provide banks D & E ar O <sub>2</sub> Injection Injection Ba Depth 61.1'	e turned off. n System #2 nk H scfh 30	sure reading 2 psi 2 22	g was no greater that	Moni DTW 29.61	itoring Points Oxygen Headspace (%O2) 23.1	Log DO (mg/L) Bottom 2.72	PID (pp
omments: ID OW-2-37 OW-2-38	All injection poin prepared by URS Injection Ba Depth 62.8' 62.1'	t flows were au Corporation at mk G scfh 30 30	ljusted to the ta fter collecting ro psi 19 18	rget flow rate of ~3 eadings. Injection 1 ID OW-2-45 OW-2-46	0 scfh provided banks D & E ar O2 Injection Ba Injection Ba Depth 61.1' 61'	e turned off.	2 psi 22 19 19 19 19	g was no greater that	In the pressu           Moni           DTW           29.61           30.47	itoring Points Oxygen Headspace (%O2) 23.1 18.5	Log DO (mg/L) Bottom 2.72 2.53	PID (pp 0
Omments: ID OW-2-37 OW-2-38 OW-2-39	All injection poin prepared by URS Injection Ba Depth 62.8' 62.1' 60'	t flows were au Corporation at mk G scfh 30 30 30	ljusted to the ta fter collecting re psi 19 18 17	rget flow rate of ~3 eadings. Injection i ID OW-2-45 OW-2-46 OW-2-47	0 scfh provide banks D & E ar O <sub>2</sub> Injection Ba Depth 61.1' 61' 60.5' DO (mg/L)	e turned off. <b>1 System #2</b> <b>nk H</b> <b>scfh</b> 30 30 30 <b>DO (m</b>	2 psi 22 19 19 sg/L) p	By was no greater that the second sec	In the pressu           Moni           DTW           29.61           30.47           30.81	itoring Points Oxygen Headspace (%O2) 23.1 18.5 21.1	Log DO (mg/L) Bottom 2.72 2.53 3.33	<b>PID</b> (p) 0 0.3
Omments: ID OW-2-37 OW-2-38 OW-2-39 OW-2-40	All injection poin prepared by URS Injection B2 Depth 62.8' 62.1' 60' 61.7'	t flows were ac Corporation at <b>scfh</b> 30 30 30 40	ljusted to the ta fter collecting re psi 19 18 17 18	rget flow rate of ~3 aadings. Injection 1 ID OW-2-45 OW-2-46 OW-2-47 ID	0 sofh provided banks D & E ar O <sub>2</sub> Injection Ba Depth 61.1' 61' 60.5' DO (mg/L) Middle	e turned off. <b>1 System #7</b> <b>nk H</b> <b>30</b> 30 30 <b>DO (m</b> <b>To</b>	2 psi 22 19 19 19 19 19 7	ID MP-2-1 MP-2-2 MP-2-3S MP-2-3D	Moni 29.61 30.47 30.00	itoring Points Oxygen Headspace (%O2) 23.1 18.5 21.1 20.9	Log DO (mg/L) Bottom 2.72 2.53 3.33 3.08	PID (pp 0 0.3 0.4
Omments: ID OW-2-37 OW-2-38 OW-2-39 OW-2-40 OW-2-41	All injection poin prepared by URS Injection B: Depth 62.8' 62.1' 60' 61.7' 61.7'	t flows were as Corporation at mk G scfh 30 30 30 40 50	ljusted to the ta frer collecting ro psi 19 18 17 18 18 19	rget flow rate of ~3 eadings. Injection 1 ID OW-2-45 OW-2-46 OW-2-47 ID MP-2-2	0 scfh provided banks D & E ar O <sub>2</sub> Injection Ba Depth 61.1' 61' 60.5' DO (mg/L) Middle 2.91	e turned off.	2 psi 22 19 19 7 6	TD MP-2-1 MP-2-3S MP-2-3D MP-2-4	In the pressu           Moni           29.61           30.47           30.81           30.00           19.53	itoring Points Oxygen Headspace (%O2) 23.1 18.5 21.1 20.9 26.1	Log DO (mg/L) Bottom 2.72 2.53 3.33 3.08 2.39	PID (p) 0 0.3 0.4 0

### SYSTEM #2

		Date:	11/29/2012
	OPERATIONAL NO	TES	
GA5 Air Compressor			
<ol> <li>Oil Level Checked with system unloaded*</li> </ol>		Yes X No	
* Unload system, wait until Delivery Air Press	sure is less than 9 psi		
2) Oil Level with system unloaded			
Low (red)	Normal (green)	X High (orange)	
3) Oil added	Yes	No <u>X</u>	
4) Oil changed	Yes	No <u>X</u>	
5) Oil filter changed	Yes	No X	
6) Air filter Changed	Yes	No <u>X</u>	
7) Oil separator cleaned	Yes	No <u>X</u>	
8) Terminal strips checked	Yes X	No	
AS-80 O <sub>2</sub> Generator			
1) Prefilter changed	Yes	No X	
2) Coalescing changed	Yes	No X	
	GENERAL SYSTEM N	OTES	
Trailer	11+ treak incide and out at	- )	
1) Performed general housekeeping (i.e. sweep, o	Yes X		
	res <u>A</u>	No	
2) Abnormal conditions observed (e.g. vandalisn	n		
3) Other major activities completed			
5) outer major activities completed			
(1) Supplies needed			
4) Supplies needed			
5) Visitors			
5) (101010			

#### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

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

On Thursday, November 15, 2012, a low pressure alarm occurred at 12:41 AM. The alarm was caused by a solenoid valve on one of the injection legs being stuck open. Upon further investigation it turns out that the electric coil that controls the valve burned out and needs to be replaced. We made a temporary repair by taking a valve off a injection bank that was not being used in System #1.

Soaked up a small amount of oil and water from separator for disposal. Wiped down all equipment and cleaned up all garbage & leaves from around fence areas.

The threads on the bolt holes of monitoring points MP-2-1, MP-2-3D and MP-2-3S manholes can no longer be serviced and need to be replaced.

The fan motor in the air dryer unit is burned out and needs to be replaced.

The solenoid valve at the location that was temporarily replaced needs to be replaced with a new solenoid valve.

Since starting up all of the injections points, high pressure at the j-plugs has been noted at monitoring points MP-2-3S and MP-2-3D. This is a safety concern that has been previously mentioned and needs to be addressed.

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

Action Items:

### SYSTEM #2

Tir Wea Outdoor Te Inside Trailer	tte: ne: tther: emperature: Temperature: ned By:	- - - -									
	O <sub>2</sub> Gen	erator (Ai	rSep)		Compressor (Kaesar Rotary Screw)						
Hours			16,061	-	Compressor Tank *85						(psi)
Feed Air Press	ure *		100	(psi)			(reading	s below are ma	)		
Cycle Pressure	*		60	(psi)	Delivery A Element Ou		rature		110 171		(psi) (°F)
Oxygen Receiv	ver Pressure *			120 (psi)	Running Ho Loading Ho				16,190 15,817		(hours) (hours)
Oxygen Purity * maximum readir	ng during loading c	ycle	95.9	(percent)		eading during		le			
	Injection Ba	nk A			O <sub>2</sub> Injection Injection Ba		2		In	jection Bank (	n
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	scfh
OW-2-2	90.2'	30	29	OW-2-9S	75'	45	20	OW-2-10D	97.2'	45	28
OW-2-3	94.3'	30	30	OW-2-10S	75'	30	30	OW-2-11D	100.8'	45	32
OW-2-4	94.7'	35	29	OW-2-11S	76.5'	35	21	OW-2-12	94'	55	19
OW-2-5	95.3'	40	31	OW-2-13S	75'	30	20	OW-2-13D	97'	40	28
OW-2-6	95.7'	50	30	OW-2-15S	75'	30	18	OW-2-14	96.4'	35	29
OW-2-7	96'	45	28	OW-2-16S	75.5'	30	19	OW-2-15D	94.6'	30	31
OW-2-8	96.3'	30	31	OW-2-18S	74.5'	30	18	OW-2-16D	94.1'	30	28
OW-2-9D	96.7'	30	29	OW-2-20S	79'	30	22	OW-2-17	95'	35	30
	A11 - 1	a						OW-2-17         95'         35         3           ling was no greater than the pressures provided in the hydrostati			

### SYSTEM #2

Hempstead Intersection Street Former MGP Site Nassau County, New York

					O Injection	System #	)					
	Injection Ba	ank D			O <sub>2</sub> Injection Injection Ba				Ir	jection Bank	F	
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	sc	fh
OW-2-18D	95.5'	40	31	OW-2-228	76'	40	19	OW-2-26D	95'	30	2'	9
OW-2-19	96.1'	45	30	OW-2-24S	77.8'	30	25	OW-2-27	93.5'	30	2	8
OW-2-20D	96.6'	30	31	OW-2-26S	74'	30	19	OW-2-28D	92.1'	30	2	7
OW-2-21	96.6'	30	29	OW-2-28S	76'	30	20	OW-2-29	92.2'	45	2	7
OW-2-22D	96.3'	30	28	OW-2-30S	67.8'	30	16	OW-2-30D	88'	55	2	6
OW-2-23	97.2'	35	30	OW-2-34	71'	35	19	OW-2-31	86'	65	3	1
OW-2-24D	97'	30	29	OW-2-35	69.2'	40	20	OW-2-32	84'	60	3	4
OW-2-25	96'	35	30	OW-2-36	64.8'	30	19	OW-2-33	82'	40	3	3
	All injection poin			eadings. Injection		e turned off.		g was no greater tha	an the pressu	ures provided in	n the hydrostati	c tables
omments:	All injection poin	Corporation at		eadings. Injection	banks D & E ar	e turned off. <b>System #2</b>		g was no greater tha		itoring Points	-	c tables
	All injection poin prepared by URS	Corporation at		eadings. Injection	banks D & E ar $O_2 Injection$	e turned off. <b>System #2</b>		g was no greater tha		-	-	
omments:	All injection poin prepared by URS Injection Ba	Corporation at	fter collecting re	adings. Injection	banks D & E ar O <sub>2</sub> Injection Injection Ba	e turned off. <b>1 System #2</b> nk H	2		Mon	itoring Points Oxygen Headspace	Log DO (mg/L)	
omments:	All injection poin prepared by URS Injection B: Depth	Corporation at ank G scfh	fter collecting re	adings. Injection   ID	banks D & E ar O <sub>2</sub> Injection Injection Ba Depth	e turned off. <b>1 System #2</b> nk H scfh	2 psi	ID	Mon	itoring Points Oxygen Headspace (%O2)	Log DO (mg/L) Bottom	PID (pp
OMMENTS: ID OW-2-37	All injection poin prepared by URS Injection Ba Depth 62.8'	Corporation at ank G scfh 30	psi 20	ID OW-2-45	banks D & E ar O2 Injection Injection Ba Depth 61.1'	e turned off. n System #2 nk H scfh 30	2 psi 20	ID MP-2-1	<b>Mon DTW</b> 29.76	itoring Points Oxygen Headspace (%O2) 24.7	Log DO (mg/L) Bottom 2.59	PID (pp
omments: ID OW-2-37 OW-2-38	All injection poin prepared by URS Injection Ba Depth 62.8' 62.1'	Corporation at ank G scfh 30 30	psi 20 19	ID OW-2-45 OW-2-46	banks D & E ar O <sub>2</sub> Injection Injection Ba Depth 61.1' 61'	e turned off.	2 psi 20 18 19 19	ID MP-2-1 MP-2-2	Mon DTW 29.76 30.86	itoring Points Oxygen Headspace (%O2) 24.7 17.5	Log DO (mg/L) Bottom 2.59 3.05	<b>PID</b> (pp 0
OW-2-37 OW-2-38 OW-2-39	All injection poin prepared by URS Injection Ba Depth 62.8' 62.1' 60'	Corporation at ank G Scfh 30 30 30	psi           20           19           17	ID OW-2-45 OW-2-46 OW-2-47	banks D & E ar O <sub>2</sub> Injection Injection Ba Depth 61.1' 61.' 60.5' DO (mg/L)	e turned off. <b>1 System #2</b> <b>nk H</b> <b>scfh</b> 30 30 30 <b>DO (m</b>	2 psi 20 18 19 pg/L) p	ID MP-2-1 MP-2-2 MP-2-3S	Mon DTW 29.76 30.86 30.95	itoring Points Oxygen Headspace (%O2) 24.7 17.5 19.3	Log DO (mg/L) Bottom 2.59 3.05 3.80	<b>PID</b> (pp 0 0.6
Omments: ID OW-2-37 OW-2-38 OW-2-39 OW-2-40	All injection poin prepared by URS Injection B2 Depth 62.8' 62.1' 60' 61.7'	Corporation al ank G	psi           20           19           17           20	Injection           ID           OW-2-45           OW-2-46           OW-2-47	banks D & E ar O2 Injection Injection Ba Depth 61.1' 61' 60.5' DO (mg/L) Middle	e turned off. <b>1 System #7</b> <b>nk H</b> <b>30</b> 30 30 <b>DO (m</b> <b>To</b>	2 psi 20 18 19 sg/L) p 0	ID MP-2-1 MP-2-2 MP-2-38 MP-2-3D	Mon DTW 29.76 30.86 30.95 31.02	itoring Points Oxygen Headspace (%O2) 24.7 17.5 19.3 40.6	Log DO (mg/L) Bottom 2.59 3.05 3.80 3.06	PID (pp 0 0 0.6
Omments: ID OW-2-37 OW-2-38 OW-2-39 OW-2-40 OW-2-41	All injection poin prepared by URS Injection B: Depth 62.8' 62.1' 60' 61.7' 61.7'	Corporation ad ank G 30 30 30 30 30 30 30 30	psi           20           19           17           20           19           17           20           19	Injection           ID           OW-2-45           OW-2-46           OW-2-47           ID           MP-2-2	banks D & E ar O <sub>2</sub> Injection Injection Ba Depth 61.1' 61' 60.5' DO (mg/L) Middle 3.26	e turned off.	2 20 20 18 19 0 3	ID           MP-2-1           MP-2-2           MP-2-3S           MP-2-3D           MP-2-4	Mon DTW 29.76 30.86 30.95 31.02 19.69	itoring Points Oxygen Headspace (%O2) 24.7 17.5 19.3 40.6 20.9	Log DO (mg/L) Bottom 2.59 3.05 3.80 3.06 1.89	PID (pp 0 0.6 0.9 0

### SYSTEM #2

		Date:	12/12/2012
GA5 Air Compressor	OPERATIONAL NO	TES	
1) Oil Level Checked with system unloa	ded*	Yes X No	
* Unload system, wait until Delivery		<u> </u>	
2) Oil Level with system unloaded	received the second sec		
	l) 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 <sub>2</sub> Generator			
1) Prefilter changed	Yes	No X	
2) Coalescing changed	Yes	No X	
,			
	GENERAL SYSTEM N	IOTES	
<u>Trailer</u>			
1) Performed general housekeeping (i.e.	sweep, collect trash inside and out, et	c.)	
	Yes X	No	
2) Abnormal conditions observed (e.g. v	andalism		
3) Other major activities completed			
5) Other major activities completed			
4) Supplies needed			
·/ = •FF			
5) Visitors			
Record routine activities such as any alarm/shutd			
transported off-site, oil/filter/gasket and/or any ot	ner abnormal operating conditions:		
Frend and a last in base with a set of second	A diamate d h alt to main any that has a to make		
Found oxygen leak in brass union and made repair. A Wiped down all equipment and cleaned up all garbag		.mp. Soaked up a sman amount of on	and water from separator for dispo
The threads on the bolt holes of monitoring points M	P-2-1, MP-2-3D and MP-2-3S manho	les can no longer be serviced and need	l to be replaced.
The fan motor in the air dryer unit is burned out will	be replaced as soon as the shipment a	rrives from Matrix (Anticipated week	of 12-17-12).
The solenoid valve at the location that was temporari	ly replaced needs to be replaced with	a new solenoid valve.	
Since starting up all of the injections points, high pre been previously mentioned and needs to be addressed		nonitoring points MP-2-3S and MP-2-	3D. This is a safety concern that h
Electric Meter # 96-929-544 tied into Pole #3			
Action Items:			