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Periodic Review Report
February 28, 2019 – March 28, 2020

Hempstead Intersection Street Former MGP Site

Town of Hempstead
Nassau County, New York
Site ID No. 130086

Submitted to:
National Grid USA
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Hicksville, New York 11801

Submitted by:
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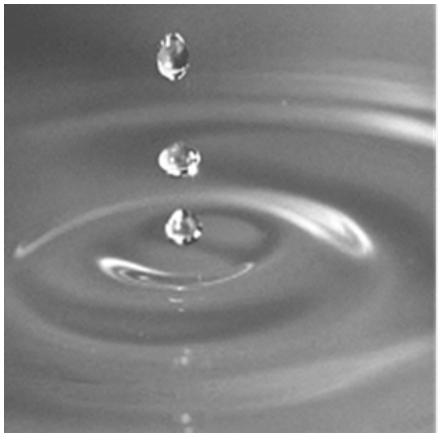

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Acronyms and Abbreviations

AST	Aboveground Storage Tank
AWQS	Ambient Water Quality Standard or Guidance Value
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulations
DER	Division of Environmental Remediation
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Accreditation Program
EWP	Excavation Work Plan
GEI	GEI Consultants, Inc., P.C.
HASP	Health and Safety Plan
IC	Institutional Control
IRM	Interim Remedial Measure
ISS	In-Situ Solidification
LIRR	Long Island Railroad
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
National Grid	National Grid NY
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PRR	Periodic Review Report
PAH	Polycyclic Aromatic Hydrocarbon
POB	Professional Office Building
ROW	Right-of-Way
Site	National Grid Former Hempstead MGP
SMP	Site Management Plan
SVI	Soil Vapor Intrusion
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VGC	Village of Garden City
WRS	WRS Environmental Services

Measurements

bgs	below ground surface
cy	cubic yards
mg/L	milligrams per liter
µg/L	micrograms per liter

Periodic Review Report Certification Statement

I, Jeffrey Parillo, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report and all attachments were prepared under my direction. To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program, and generally accepted engineering practices; and that the information presented is accurate and complete.

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

a) the institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by DER;
b) nothing has occurred that would impair the ability of such control to protect public health and the environment;
c) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control; and
d) access to the Site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control.

April 27, 2020
Date

Jeffrey Parillo, P.E.
GEI Consultants, Inc. P.C.
New York State Professional Engineer
License Number 0118801

1. Introduction

This Periodic Review Report (PRR) was prepared by GEI Consultants, Inc., P.C. (GEI), on behalf of National Grid NY (National Grid), to present the scope and results of the post-remediation monitoring activities conducted between March 1, 2019 and March 28, 2020 at the Former Hempstead Manufactured Gas Plant (MGP) site (the Site) located in Hempstead, New York. This PRR for this Site (NYSDEC Site #130086) is prepared in accordance with the requirements of the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) guidance document DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010) and the Site Management Plan (SMP) (URS, 2017) for the Site. The 2019-2020 monitoring activities were conducted to evaluate the on-going performance and effectiveness of the Engineering Controls (ECs) and Institutional Controls (ICs) at the Site and in off-Site areas and consisted of the following:

- Monthly non-aqueous phase liquid (NAPL) monitoring and recovery at monitoring well HIMW-21;
- Monthly oxygenation system monitoring. On October 24, 2019 the NYSDEC approved changing the frequency of the groundwater treatment performance monitoring of dissolved oxygen (DO) from monthly to quarterly. DO sampling was conducted in March, April, May, June, July, August, September, and October 2019, as well as March 2020;
- Semi-annual groundwater monitoring in March 2019, September 2019, and March 2020; and
- Annual Site-wide inspection in March 2020.

Additional activities conducted during the current PRR period included:

- Oversight of the removal of an aboveground storage tank (AST) from the Site on June 20, 2019 by WRS Environmental Services (WRS),
- The abandonment of two off-Site monitoring wells and the re-installation of one of the two abandoned wells; and
- Quarterly Site checks.

The 2019-2020 monitoring activities were performed in accordance with the NYSDEC-approved Site Management Plan (SMP; URS, 2017) and subsequent modifications. These included a reduction to the groundwater sampling frequency and the inclusion of the sampling results in the PRR in lieu of the annual report formerly titled "*Annual Groundwater*

Sampling, NAPL Monitoring/ Recovery and Groundwater Treatment Performance Report" (National Grid 2018), and the modifications to the dissolved oxygen sampling program (Dissolved Oxygen Modification Request; National Grid 2019). The above-referenced modifications were approved by the NYSDEC on June 1, 2018 and October 24, 2019, respectively. The NYSDEC correspondence regarding the modification approvals are provided in **Appendix A**. In addition, monitoring wells HIMW-12I and HIMW-12D were abandoned and HIMW-12I was replaced in accordance with the NYSDEC-approved work plan dated, September 2019.

1.1 Site Location and Description

National Grid's corporate predecessor, KeySpan Corporation, entered into an Order on Consent (#D1-0001-98-11) with the NYSDEC to investigate and remediate MGP-related residuals at the Site and surrounding areas in the Villages of Hempstead and Garden City, in the Town of Hempstead, Nassau County, New York. The Site is generally bounded by Second Street to the north, an inactive Long Island Railroad (LIRR) Right-of-Way (ROW) to the east, Intersection Street to the south, and a Village of Garden City (VGC) municipal property to the west which contains a public parking lot, two public water supply wells, and a recharge basin that is used to service the water supply wells (**Figures 1 and 2**). The area immediately surrounding the Site is developed with residential and commercial properties. The Site includes an active natural gas regulator station in the northwest corner of the property, storage areas used by National Grid and its contractors, and a storage area for new cars that is leased to a car dealership.

In addition to the Site, the following off-Site areas were subjected to soil remediation via excavation removal/backfill and in situ solidification (ISS):

- The VGC municipal property that is adjacent to and west of the Site;
- The parking lot of the Plaza 230 Professional Office Building (POB) that is south of the Site;
- Intersection Street ROW that is between the Site and the POB parking lot;
- The inactive LIRR ROW that is adjacent to and east of the Site; and
- Oswego Oil Storage Terminal that is just north of Intersection Street and east of the Site.

These off-Site Areas are shown on **Figure 2** and the Site and adjacent parcels are identified by the Section, Block, and Lot numbers on **Figure 3**. Additional off-Site remedial activities include the installation and operation of two oxygenation systems that treat groundwater through oxygen delivery to the subsurface, the installation and sampling of monitoring wells

located throughout the project area and the recovery of dense non-aqueous phase liquid (DNAPL).

1.2 Remedial Chronology

National Grid has performed two interim remedial measures (IRMs) and two remedial actions (one off-Site and one on-Site), which are summarized below.

- A "cut and plug" IRM was conducted in 1999 and 2000. Underground piping associated with historic MGP operations was located, cut, drained of any fluids, and plugged to limit the potential for any off-Site migration of MGP-related constituents.

- A second IRM was implemented in 2008 to excavate shallow MGP source materials from the Site and to recover DNAPL from groundwater. A total of 4,432 cubic yards (cy) of MGP-impacted soil and construction/demolition debris was transported to a licensed facility for off-Site treatment and disposal. MGP-impacted liquid (9,493 gallons) was containerized and transported to a licensed facility for off-Site treatment and disposal.

- As part of an off-Site remedial action remedial action, National Grid installed two groundwater oxygenation systems downgradient of the Site (see **Figure 4**). These systems are components of the full Site-wide remedy and inject oxygen to the downgradient groundwater plume. The primary objective of the off-Site groundwater oxygenation systems is to increase the level of DO in the groundwater to encourage aerobic bioremediation of organic contaminants. As contaminated groundwater flows through the treatment areas, the increased DO accelerates the rate at which the dissolved contaminant mass is bioremediated and the contaminant concentrations in groundwater decrease. System #1 was brought on-line in April 2011 and is located immediately south of the Site and runs generally east-west from Hilton Avenue to Sealy Avenue, in a neighborhood that includes residential and light commercial spaces, as well as a portion of the LIRR ROW. System #2 was brought on-line in October 2010 and is located in a primarily residential neighborhood about 500 feet to the south of System #1, running from Mirschel Park to Kensington Court.

- The on-Site remedial action (including portions of adjacent parcels as described in Section 1.1) was completed between 2011 and 2016 and included an excavation and ISS remedy addressing MGP source material on the Site and adjacent off-Site areas. Elements of the remedial action included:

    1. Excavation of MGP structures and shallow targeted MGP-impacted soil from the Site and treatment/disposal off-Site.
    2. Excavation of shallow clean soil and stockpile for later backfill.

3. Solidification of deeper targeted MGP source material beneath the Site using ISS.
4. Construction of an approximately 15-foot deep subsurface soil-crete retaining wall in the POB parking lot and in portions of Wendell Street and Intersection Street. The soil-crete wall consisted of soil mixed with a cement-based grout to provide concrete-like properties.
5. Excavation to approximately 15 feet below ground surface (bgs) within the soil-crete wall and stockpiling/reuse clean overburden soils and then solidification of deeper targeted MGP source material.
6. Solidification of targeted MGP source material in the VGC municipal property and the Oswego Oil Storage Terminal property.
7. Coverage of solidified material, known as a cover system, with approximately four feet of clean soil. Surface cover materials to prevent contact with solidified materials and remaining untreated contaminated soil at the Site and adjacent off-Site areas are as follows:
    - National Grid Property:
        - New York State Department of Transportation (NYSDOT) select stone cover (4 inches thick) in disturbed/work areas; or
        - Asphalt pavement (for access roads and asphalt parking); or
        - Select stone-lined swale (4 inches thick).
    - VGC Municipal Property:
        - Asphalt pavement (access roads and asphalt parking); or
        - Landscaped area including:
            - Topsoil and grass vegetation; or
            - Landscape strips with topsoil (6-inches)/grass, shrubs, and trees.
    - Wendell Street, Intersection Street, and Wydler Place:
        - Asphalt cover with concrete curbs, adjacent topsoil (6-inches)/grass strips, concrete sidewalks, and trees.
    - POB Parking Lot:
        - Asphalt paving; and
        - Curbed decorative gravel islands with trees.

- Oswego Oil Storage Terminal area where ISS was completed:
    - Four inches of asphaltic concrete on top of 4 inches of subbase course.

2. Institutional Control/Engineering Control (IC/EC) Plan Compliance

Since solidified material and remaining impacted soil and groundwater exists beneath the Site and in some off-Site areas, ICs and ECs exist to protect human health and the environment. The SMP includes provisions to protect human health and the environment from groundwater contamination in addition to managing the remaining soil contamination. The intent of this section is to provide a description of the IC/ECs in place for the Site and off-Site areas, the objective and status of each IC/EC, as well as to provide a mechanism used to monitor and enforce ICs and ECs, where appropriate.

2.1 Institutional Controls

A series of ICs is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to MGP-related residuals by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to restricted residential use, as indicated in the Environmental Easement unless other future uses are approved by the NYSDEC. These ICs are as follows:

- Compliance with the Environmental Easement by the Grantor and the Grantor's successors and assigns with all elements of the SMP;
- Compliance with the Access Agreement;
- All ECs must be operated and maintained as specified in the SMP by National Grid;
- All ECs must be inspected and certified by National Grid or a contractor of National Grid at a frequency and in a manner defined in the SMP;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported by National Grid at the frequency and in a manner defined in the SMP; and
- Site and off-Site area environmental monitoring including but not limited to, groundwater monitoring wells and oxygen injection points, must be maintained to ensure continued functioning in the manner specified in the SMP.

ICs may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The Site has a series of ICs in the form of restrictions. Adherence to these ICs is required by the Environmental Easement on the Site. Restrictions that apply to the Site and off-Site areas as indicated below are as follows:

- Use of the Site is approved for restricted residential use. Any specific future development must comply with local laws and regulations.

- Use of groundwater underlying the Site or the other properties that were subjected to soil remediation via excavation removal/backfill and ISS (as described in Section 1.1) is prohibited without treatment to ensure it is safe for the intended use.

- All future activities on the Site or surrounding areas that were subjected to soil remediation via excavation removal/backfill and ISS that will disturb contaminated and/or solidified material must not be conducted unless they are conducted in accordance with the SMP and accompanying Excavation Work Plan (EWP).

- Implementation of a Health and Safety Plan (HASP) and EWP prior to any ground intrusive activity including but not limited to utility work, boring completion, monitoring well installation, and excavation; with the exception of normal landscaping (to a maximum of 24 inches below ground surface or top of the groundwater table, whichever is shallower).

- The potential for vapor intrusion must be evaluated for any new buildings proposed on the Site or at off-Site areas that were subjected to soil remediation via excavation removal/backfill and ISS, and any potential impacts that are identified must be monitored or mitigated.

- Written notification at least 60 days in advance for changes in use at the Site or to off-Site areas that were subjected to soil remediation via excavation removal/ backfill and ISS must be submitted to NYSDEC as per Part 375 and DER-10.

- Vegetable gardens and farming on the Site are prohibited.

- National Grid will submit to NYSDEC a written statement that certifies that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Site at any time in order to evaluate the

continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.2 Engineering Controls

The SMP lists the following ECs:

- Cover system,
- DNAPL monitoring and recovery, and
- Operation of groundwater oxygenation systems.

A description of each of the ECs is provided below. Monitoring activities are discussed in subsequent sections.

2.2.1 Cover System

Contact with MGP-related residuals in soil and solidified material at the Site and adjacent off-Site areas is prevented by multiple cover systems. Locations of the various cover systems are provided in the SMP. The cover systems, exclusive of any underlying fill that was described earlier in Section 1.2, are comprised of asphalt pavement, concrete sidewalks, concrete slabs, select stone (gravel), or vegetated topsoil.

2.2.2 DNAPL Monitoring & Recovery

DNAPL is gauged monthly from one well in the off-Site area (HIMW-21). Recovery is conducted when DNAPL thickness reaches approximately 2.5 feet, which is significantly less than the 10-foot sump installed in the well. The collected DNAPL is transferred to a collection drum stored on-Site, and properly disposed of off-Site.

2.2.3 Oxygenation Systems

Remediation of the dissolved phase groundwater plume is addressed through the continued operation of the oxygenation treatment systems. Oxygen delivery is comprised of systems that deliver oxygen to the groundwater at rates determined to be sufficient to maintain aerobic conditions in the aquifer. Aerobic conditions allow naturally occurring bacteria to oxidize and break down contaminants into water and carbon dioxide. Systems are inspected on a monthly basis. During each monthly inspection, repairs and routine operation and maintenance activities are performed and the dissolved oxygen levels are measured in monitoring wells installed adjacent to the delivery points in order to confirm that aerobic conditions are present.

System No. 1 was brought on-line in April 2011 and is located immediately south of the Site and runs generally east-west from Hilton Ave to the west to Sealy Ave to the east, in a neighborhood that includes residential and light commercial spaces, as well as a portion of the LIRR ROW. System No. 2 was brought on-line in October 2010 and is located in a primarily residential neighborhood about 500 feet to the south of System No. 1, running from Mirschel Park to the east to Kensington Court to the west. The location of the system is shown on **Figure 4**.

2.3 IC/EC Plan Evaluation

The following Plans are applicable at the Site or to off-Site areas that were subjected to soil remediation via excavation removal/backfill and ISS, as outlined in the SMP.

2.3.1 Excavation Work Plan

Any future intrusive work (e.g., through drilling, trenching, excavation) that will penetrate, encounter or disturb the cover systems, or encounter or disturb solidified material and/or MGP-related residuals including any modifications or repairs to the existing cover systems, will be performed in compliance with the EWP included as Appendix B of the SMP. Should the monolith be breached, removed monolith material will be disposed off-Site as contaminated material, and provisions will be made to avoid ponding on the breached monolith surface. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under the SMP.

Any work conducted pursuant to the EWP must also be conducted in accordance with a HASP and Community Air Monitoring Plan (CAMP) prepared for the Site, in accordance with DER-10, 29 Code of Federal Regulations (CFR) 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the SMP.

The affected property owner(s) and the contractor performing the excavation work are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, the identification of any buried utilities within the excavation area and for structures that may be affected by excavations (such as building foundations and footings), and control of runoff from open excavations onto solidified material and/or MGP-related residuals. In addition, the property owner(s) will ensure that site development activities will not interfere with, or otherwise impair or compromise, the ECs described in the SMP.

2.3.2 Soil Vapor Intrusion Evaluation

Prior to the construction of any new enclosed structures on the Site or to off-Site areas that were subjected to soil remediation via excavation removal/backfill and ISS, a soil vapor intrusion (SVI) evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. The design of a new building foundation will also be considered in this type of evaluation. Alternatively, an SVI mitigation system and/or vapor barrier can be installed as an element of the building foundation without first conducting an investigation. The mitigation system would potentially include a vapor barrier and passive sub-slab venting system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan would be developed and submitted to the NYSDEC and New York State Department of Health (NYSDOH) for approval. This work plan would be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York." Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

2.3.3 Contingency Plan

The SMP includes a Contingency Plan to respond to emergencies including injury to personnel, fire or explosion, environmental release, or serious weather conditions. In the event of any emergency, the procedures detailed in the Contingency Plan Section of the SMP will be followed.

No emergencies occurred during the reporting period that required implementation or modification of the Contingency Plan.

2.3.4 Corrective Measures Plan

If any component of the remedy is found to be compromised, or if the periodic certification cannot be provided due to an issue with an institutional or engineering control, a Corrective Measures Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Plan until it is approved by the NYSDEC.

As no component of the remedy was found to be compromised during the reporting period, a Corrective Measures Plan was not required.

2.4 Inspections and Notifications

2.4.1 Inspections

Inspections of all remedial components and all ECs present at the Site and off-Site areas will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive Site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of the SMP and the Environmental Easement/Access Agreement;
- Achievement of remedial performance criteria for groundwater;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the ECs.

Inspections will be conducted in accordance with the procedures set forth in the SMP.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site by a qualified environmental professional will be conducted within five days of the event to verify the effectiveness of the EC/ICs implemented at the Site or off-Site areas. If there are observed issues they will be documented.

2.4.2 Notifications

The following notifications will be submitted by the owner(s) of the properties subject to remediation (excavation and ISS) to National Grid and the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in property use that are required under the terms of the Order on Consent, 6 NYCRR Part 375, and/or Environmental Conservation Law (ECL).
- 15-day advance notice of any proposed ground-intrusive activities pursuant to the EWP.

- Notice within 48 hours of any damage or defect to the foundations or structures that reduces or has the potential to reduce the effectiveness of other ECs and likewise any action to be taken to mitigate the damage or defect.

- Notice within 48 hours of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site of in off-Site areas, including a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to National Grid and the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

National Grid will review and provide comments as appropriate on all planned ground-intrusive activities proposed on properties located within the limits of the areas covered by SMP. National Grid must have a full-time representative on-site per the Order on Consent during any ground-intrusive work activities and document compliance with the SMP.

Any change in the ownership of the properties subjected to remediation or the responsibility for implementing the SMP will include the following notifications:

- At least 60 days prior to the change, National Grid and the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the SMP, Access Agreement, and all approved work plans and reports.

- Within 15 days after the transfer of all or part of the property, the new owner's name, contact representative, and contact information will be confirmed in writing.

3. Monitoring Plan Activities and Compliance

3.1 Monitoring Plan Description

The Monitoring Plan is designed to evaluate the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site or in off-Site areas. The plan includes monitoring procedures for the three ECs and affected Site media. The monitoring program schedule and requirements are provided on **Tables 1** and **2**, respectively. The Monitoring Plan may only be revised with the approval of NYSDEC.

3.2 Site Inspections and Cover System Monitoring

An annual Site-wide inspection is required to ensure that the cover system continues to be effective at preventing direct exposure to residual contamination throughout the Site and affected off-Site areas. Inspections of remedial components will also be conducted when a breakdown of any component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

The inspection will facilitate the compilation of sufficient information to assess the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of the SMP and the Environmental Easement/Access Agreement; and
- Achievement of remedial performance criteria for groundwater.

No impacts or disturbances to the cover system were observed during the reporting period. GEI performed the annual Site-wide inspection on March 18, 2020. Since the ISS monolith is at least 4 feet below ground surface and is overlain by the soil backfill and cover, monitoring of the cover has been deemed sufficient for ISS monolith inspection.

In addition, GEI accessed the Site and off-Site areas monthly (at a minimum) and no disturbances to the cover system were noted. The annual Site-wide inspection was documented on the inspection form presented in **Appendix B**.

Portions of the Site are being used for storage by National Grid and (through a lease) the adjacent automobile dealer through 2023. However, these uses have not impacted the surface cover integrity and its surfaces and thicknesses.

3.3 Reporting Period Monitoring

DNAPL and groundwater monitoring were conducted during the reporting period. Monitoring dates and other relevant information are provided in this section. DNAPL gauging and/or collection was performed at well HIMW-21 on:

- March 26, 2019
- April 24, 2019
- May 14, 2019
- June 12, 2019
- July 17, 2019
- August 13, 2019
- September 23, 2019
- October 22, 2019
- November 22, 2019
- December 20, 2019
- January 17, 2020
- February 19, 2020; and
- March 17, 2020

3.3.1 Groundwater

Groundwater monitoring events consisting of depth-to-groundwater measurements and groundwater sampling are currently conducted semi-annually. On June 1, 2018, NYSDEC approved reducing the frequency of groundwater sampling from quarterly to semi-annually. **Table 2** lists the wells that are gauged for water level and presence of NAPL and/or sampled. Each groundwater sample is analyzed by a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory for benzene, toluene, ethylbenzene, and xylenes (BTEX) United States Environmental Protection Agency (USEPA) Method SW8260C and polycyclic aromatic hydrocarbon (PAHs) by USEPA Method SW8270D.

Groundwater sampling was performed at 29 wells on the following dates:

- Q1 2019 - March 18, 19, 20, 25 and 26, 2019
- Q3 2019 - September 17, 18 and 19, 2019
- Q1 2020 - March 10, 11, 12, 13 and 16, 2020

Depth-to-groundwater measurements were taken from all accessible wells during each monitoring event identified above.

Data Usability Summary Reports (DUSRs) for groundwater samples collected in March and September 2019, and March 2020 are included as **Appendix C**.

3.4 Summary of Monitoring Results

The results of the depth-to-water measurements and NAPL gauging events for Q1 2019, Q3 2019 and Q1 2020 are presented on **Tables 3**, **4** and **5**, respectively. The results of the DNAPL recovery from HIMW-21 are presented in **Table 6**. The results of the groundwater sampling analyses are presented in **Table 7** and on **Figures 5, 6** and **7**. Groundwater contour maps for the three depth zones for each sampling event are presented on **Figures 8** through **16**.

During the reporting period, monitoring well HIMW-21 was gauged monthly for the presence of DNAPL. A total of approximately 3.4 gallons of DNAPL were recovered during the reporting period during two recovery events (April 24 and October 22, 2019). HIMW-21 is the only remaining monitoring well with observed DNAPL.

Groundwater at the Site and at off-Site areas was determined to flow in a generally southerly direction. This is consistent with previous sampling events.

Exceedances of the NYSDEC Ambient Water Quality Standards (AWQS) during the March 2019, September 2019, and the March 2020 sampling events were identified in eight, six and seven wells, respectively. The exceedances included BTEX compounds and select PAHs (acenaphthene, acenaphthylene and naphthalene) which were primarily identified upgradient of Treatment System #1. Exceedances downgradient of Treatment System #1 include monitoring well HIMW-24 in both sampling events, as well as HIMW-13D and HIMW-14I, which are also downgradient of Treatment System #2, in the March 2020 and March 2019 sampling events, respectively. Benzene slightly exceeded the AWQS of 1 micrograms per liter (µg/L) in HIMW-13D and HIMW-14I during the above-referenced sampling events with concentrations of 1.2 µg/L and 1.1 µg/L, respectively.

The configuration of the plume as defined by concentrations of BTEX of PAHs above 100 µg/L was generally similar in the three sampling events conducted during the current PRR period (**Figures 5**, **6** and **7**). The plume was slightly shorter in length in the September 2019 and March 2020 sampling events due to significant reductions in monitoring well HIMW-08S. The data collected from the 2019 and March 2020 sampling events show the plume has been reduced from previous sampling events, where it was shown to extend beyond Oxygenation System #1 (System #1). These reductions are likely due to the more consistent operation of System #1 during the current reporting period. The elevated concentrations of BTEX (650.5 µg/L) and PAHs (1,688.6 µg/L) detected in monitoring well HIMW-24 during the September 2018 sampling event were significantly reduced in the

March and September 2019 sampling events and were non-detect in the March 2020 sampling event.

The remaining wells with elevated (>100 µg/L) concentrations of BTEX or PAHs upgradient of Treatment System #1 during the reporting period include HIMW-05I, HIMW-05D, HIMW-08S, HIMW-26D, HIMW-27S, and HIMW-28S. BTEX or PAH concentrations in select wells in the above-referenced clusters were also above 1,000 µg/L in at least one monitoring event during the reporting period including HIMW-05I, HIMW-05D, HIMW-08S, HIMW-26D and HIMW-27S. The BTEX concentrations in HIMW-08S were above 1,000 µg/L during March 2019 but were 0.66 µg/L and 6.1 µg/L, respectively in the two subsequent sampling events. Concentration trends in HIMW-05I and HIMW-26D have generally been decreasing during the reporting period, while concentrations in HIMW-05D and HIMW-28S have been generally increasing. The concentrations in HIMW-27S have been relatively stable.

The DO monitoring points near both System #1 and Oxygenation System #2 (System #2) were monitored monthly through Q3 2019 and quarterly thereafter. The DO concentrations have generally remained elevated as shown by the readings from March 2019 through March 2020 that are presented in **Table 8**. The DO concentrations downgradient of the two systems are shown on **Figures 17** and **18**. Further discussion of the DO concentrations and the effectiveness of the oxygenation systems is provided in **Section 4**. The groundwater treatment system performance data for the above-referenced period is included as **Appendix D**.

Potentiometric heads and NAPL thickness measurements for March and September 2019 and March 2020 are presented in **Tables 3, 4** and **5**, respectively. Potentiometric surface maps for shallow, intermediate, and deep groundwater zones were developed using this data and are shown on **Figures 8 through 16** for the three monitoring events conducted during the reporting period. The data indicate that the direction of groundwater flow within the well field was south for shallow, intermediate, and deep-water bearing zones.

A total of approximately 3.4 gallons of DNAPL were recovered from well HIMW-21. DNAPL was recovered on April 24, 2019 and October 22, 2019 with 1.2 gallons and 2.2 gallons collected during the respective events.

The sump length in HIMW-21 is 10-feet, as a result, DNAPL recovery is to be performed when the measured thickness is greater than 2.5 feet.

3.5 Monitoring Well Abandonment and Re-installation

Two monitoring wells, HIMW-12I and HIMW-12D, which had debris blocking their risers due to vandalism, were abandoned and HIMW-12I was re-installed in March 2020. The

work was completed in general accordance with NYSDEC approved work plan dated September 10, 2019. A summary of the work including a deviation to the approved work plan are discussed below.

An attempt was made to clear the two wells of debris using vacuum-excavation and hand tools on October 30, 2019. Although some debris was removed from each of the wells, the attempt was ultimately unsuccessful.

Following the unsuccessful attempt to clear the wells of debris, the plan was to abandon the two wells by over-drilling. However, an alternative method for abandonment which included splitting the wells with a tool using a direct-push drilling rig was discussed with and approved by NYSDEC in an email dated March 16, 2020. A direct-push rig was mobilized to the project area on March 16, 2020. Monitoring well HIMW-12D was successfully cleared of debris and split to within five feet of the bottom depth of the well; however, the well collapsed upon withdrawal of the splitting tool and could not be grouted. As a result, the decision was made to over-drill the two locations with NYSDEC approval.

Over-drilling and abandonment were performed using a sonic rig on March 17 through 19, 2020. Following abandonment, HIMW-12I (now known as HIMW-12IR) was re-installed using the sonic rig on March 20, 2020. Monitoring well abandonment and installation logs are included as **Appendix E**.

HIMW-12IR will be surveyed for incorporation into the monitoring well network, as well as developed and sampled; however, these tasks were not completed in the current reporting period due to restrictions associated with COVID-19 non-essential work guidance issued by New York State. Several other wells with damaged well boxes were repaired during this mobilization. These wells will also be resurveyed if the measuring point was altered.

4. Operation and Maintenance Activities and Compliance

4.1 Oxygenation System Description

There are two oxygenation systems installed to enhance the groundwater oxygen concentrations in the groundwater plume (**Figure 4**). The aerobic conditions allow bacteria to biologically degrade dissolved hydrocarbons, including BTEX and PAHs. System #1 is located along Smith Street, a portion of the LIRR ROW, and a portion of Hilton Avenue and began operation in April 2011. System #2 extends from Mirschel Park in the east to Kensington Court in the west and began operation in October 2010.

In May 2011, soon after the start-up of the two systems, the dissolved phase groundwater plume extended approximately 2,000 feet to the south of the Site, as shown on **Figure 19** and extended over 3,600 feet prior to the implementation of remedial activities. The plume boundaries were defined by total BTEX and/or total PAH concentrations greater than 100 µg/L. The locations and depths of the injection wells are presented on **Figures 20** and **21** for Systems #1 and #2, respectively.

4.2 Operational Summary

Overall, the system operated efficiently during the reporting period with the exceptions noted below. System #1 was not operational from May 17, 2019 through July 12, 2019 due to a faulty booster pump. A new booster pump was subsequently ordered and installed upon delivery and System #1 was operational July 12, 2019. System #2 was not operational from November 25, 2019 through January 30, 2020 due to a faulty compressor. The delays were due to lead time to acquire the required parts necessary to repair the compressor.

A total of nine oxygen delivery wells (three in System #1 and five in System #2) have been taken offline due to low pressure. One of the points was turned off during the previous reporting period, seven were turned off at the start of the current reporting period (March 2019) after no pressure was detected. One additional point was turned off in April 2019, following reductions in pressure in March and April 2019, when no pressure was detected. Since the system has been successful at maintaining aerobic conditions within the aquifer and no rebound of contaminants have been noted in groundwater, repairs to the oxygen delivery wells that are currently off are unnecessary at this time.

4.3 Summary of Oxygen Level Measurements

DO levels were measured from the DO monitoring points on a monthly basis from March through October 2019 and then quarterly in March 2020. On October 24, 2019, the NYSDEC approved the change of monitoring frequency from monthly to quarterly. The monitoring locations are shown on **Figures 20** and **21**.

The dissolved oxygen concentrations in wells downgradient of System #1 averaged between 17.57 milligrams per liter (mg/L) in Q3 2019 to a high of 19.30 mg/L during Q4 2019 with a cumulative average of 18.11 mg/L during the reporting period. The dissolved oxygen concentrations in wells downgradient of System #2 averaged between 16.30 mg/L in Q1 2020 to a high of 22.00 mg/L during Q1 2019, with a cumulative average of 19.72 mg/L during the reporting period. The Q1 2020 results in wells downgradient of System #2 were below average for reporting period but remained elevated. The results of the DO monitoring are presented in **Table 5** and shown on **Figures 17** and **18**. **Appendix D** contains the oxygen injection operation and maintenance log sheets for the reporting period.

4.4 Evaluation of Effectiveness

Figure 17 shows that oxygen concentrations for System #1 started decreasing in May 2019 due to the faulty booster pump but rebounded in August 2019 after the booster pump was replaced. The aquifer remained under aerobic conditions during the downtime.

Figure 18 shows that System #2 consistently maintained high oxygen concentrations from March 2019 through March 2020. System #2 was shut down in November 2019 due to a faulty compressor, which was repaired and operational again on January 30, 2020.

The two oxygenation systems remain effective in maintaining high oxygen concentrations in the groundwater. Concentrations of contaminants in groundwater also remained low as discussed in Section 4.4.

5. Overall PRR Conclusions and Recommendations

5.1 Compliance with SMP

National Grid has operated and maintained the Site in compliance with the SMP, excluding interruptions to the operation of the oxygenation systems. The systems required repairs which were subsequently conducted, allowing the resumption of system operation. The NYSDEC IC/ECs Certification Form is provided in **Appendix F**.

5.2 Performance and Effectiveness of Remedy

The ICs/ECs remain effective at this Site and in off-Site areas. The largest component of the remedy was the solidification of 168,600 cy of soil. While there is no direct monitoring of the monolith created by this solidification, it remains in place under cover materials. The cover system is unchanged, with no intrusive activities noted that penetrated the system. Based on inspection of the off-Site area properties, which did not reveal any evidence of intrusive activities, and discussions with the off-Site area property owners, the cover system is unchanged, and no intrusive activities took place that penetrated the cover system. Representatives from the VGC informed us that an underground storage tank (UST) was recently removed from their property. The area where the UST was removed was outside of the ISS and cover system area on the property.

Due to the presence of residual contamination beneath the POB known as Plaza 230, and beneath the powerline running along the LIRR ROW, some dissolved phased contamination remains immediately downgradient of the solidified monolith. However, this contamination is effectively treated by System #1 as detailed below. During this reporting period, 3.4 gallons of NAPL were recovered from the one recovery well (HIMW-21) located near the POB. This well is located within an area inaccessible for ISS treatment.

The oxygenation systems have been effective in reducing the size and concentration of the downgradient plume. In contrast to the current plume extent shown on **Figures 5** through **7**, the plume as it existed at the time of the start-up of the oxygenation systems (**Figure 19**) has been reduced by approximately 2,000 feet. Further reductions (as great as 3,600 feet) are evident when compared to the pre-remedial extent. **Figures 22 (A and B)** and **23 (A and B)** show total BTEX and total PAH concentrations (respectively) in all wells monitoring the plume downgradient of System #1. These charts use a logarithmic concentration scale to effectively show the wide range of concentrations observed in these wells. For the purposes of data presentation, non-detects are shown as a concentration of 1 µg/L. These charts show there has been a clear decreasing trend in these wells since the startup of the two systems. This trend is especially clear in wells located farther downgradient including HIMW-13I and -13D, HIMW-14I, and HIMW-15I, that directly intercepted the plume. This trend is more evident with BTEX than with PAHs. Prior to the current reporting period, several wells

located in between the two oxygenation systems, including HIMW-20I, HIMW-24 and HIMW-25, have shown significant variation in concentrations. However, concentrations in HIMW-20I and HIMW-25 were below detections levels in each of the three sampling events during the current reporting period and HIMW-24 decreased during the reporting period to below detection levels in March 2020. These variations are likely related to the periods of operational downtime experienced with System #1. Prior to the extended period of downtime from June 2017 to February 2018, concentrations in the above-referenced wells were generally trending downward, with some variation noted in HIMW-24 which is located farthest from System #1. Increasing concentrations coinciding with and following the downtime period were noted. As stated above, decreasing trends in each of these wells, with some lag noted in HIMW-24, have been evident since the system restarted. The re-installation and sampling (during the next reporting period) of HIMW-12I, located downgradient of HIMW-24 will provide additional information regarding groundwater quality in the area between the two treatment systems.

5.3 Recommendations

Continue performance monitoring in accordance with the SMP and subsequent NYSDEC-approved modifications as described below.

The frequency of well HIMW-21 NAPL gauging (and if appropriate, NAPL collection) will continue at a monthly frequency. Groundwater sampling will be conducted semi-annually, and dissolved oxygen monitoring will be conducted quarterly as approved in the June 1, 2018 and October 24, 2019 letters from NYSDEC, respectively.

6. References

NYSDEC, 2010. DER-10 / *Technical Guidance for Site Investigation and Remediation*, May 2010.

URS Corporation, 2017. *Site Management Plan for the Hempstead Intersection Street Former Manufactured Gas Plant Site, Villages of Hempstead & Garden City, Nassau County, New York*, February 2017.

AECOM USA, Inc., 2019. *Periodic Review Report – April 6, 2017 through February 28, 2019, Hempstead Intersection Street Former MGP Site*, March 2019

Tables

Table 1 . Monitoring Program Schedule
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Monitoring/Inspection	Frequency	Analysis	Reporting Frequency
Cover System: Former MGP Area and LIRR ROW	Annually	none	Annually
Cover System: Village of Garden City Property	Annually	none	Annually
Cover System: Oswego Oil Storage Terminal Area	Annually	none	Annually
Cover System: Restored Roadway Areas	Annually	none	Annually
Cover System: POB Parking Lot	Annually	none	Annually
Groundwater Monitoring	Semi-Annually	Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by USEPA Method 8260C and polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270D	Annually
Groundwater level measurements and potentiometric surface map(s)	Semi-Annually	N/A	Annually
DNAPL Depth Gauging	Monthly	Depth	Annually
Treatment System Monitoring	Monthly/ Quarterly*	Dissolved Oxygen	Annually

Notes:

* On October 24, 2019, NYSDEC approved changing the frequency of dissolved oxygen sampling to quarterly.
N/A=Not Applicable
LIRR=Long Island Railroad
ROW=Right of Way
MGP=Manufactured Gas Plant
POB=Professional Office Building

Table 2. Monitoring Requirements
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Frequency	Semi-Annual			Monthly
Well Id	Water Level	NAPL Thickness	Water Quality	DNAPL Thickness
HIMW-03S	X	X	X	
HIMW-03I	X	X	X	
HIMW-03D	X	X	X	
HIMW-04S	X	X		
HIMW-04I	X	X		
HIMW-04D	X	X		
HIMW-05S	X	X	X	
HIMW-05I	X	X	X	
HIMW-05D	X	X	X	
HIMW-08S	X	X	X	
HIMW-08I	X	X	X	
HIMW-08D	X	X	X	
HIMW-09S	X	X		
HIMW-09I	X	X		
HIMW-09D	X	X		
HIMW-10S	X	X		
HIMW-10I	X	X		
HIMW-11S	X	X		
HIMW-11I	X	X		
HIMW-11D	X	X		
HIMW-12S	X	X	X	
HIMW-12I	X	X	X	
HIMW-12D	X	X	X	
HIMW-13S	X	X	X	
HIMW-13I	X	X	X	
HIMW-13D	X	X	X	
HIMW-14I	X	X	X	
HIMW-14D	X	X	X	
HIMW-15I	X	X	X	
HIMW-15D	X	X	X	
HIMW-20S	X	X	X	
HIMW-20I	X	X	X	
HIMW-21	X	X		X
HIMW-22	X	X	X	
HIMW-23	X	X	X	
HIMW-24	X	X	X	
HIMW-25	X	X	X	
HIMW-26I	X	X	X	
HIMW-26D	X	X	X	
HIMW-27S	X	X	X	
HIMW-27I	X	X	X	
HIMW-28S	X	X	X	
HIMW-28I	X	X	X	
PZ-02	X	X		
PZ-03	X	X		
OSMW-02	X	X		
OSMW-03	X	X		

Notes:

Field marked with "X" indicates that the activity is to be performed.

Blank field indicates that the activity not required.

MGP=Manufactured Gas Plant

Table 3. Groundwater and NAPL Measurements First Quarter 2019
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-03S	3/27/2019	65.00	ND	18.41	ND	34.48	0	0.00	46.59
HIMW-03I	3/27/2019	64.94	ND	17.81	ND	85.05	0	0.00	47.13
HIMW-03D	3/27/2019	65.26	ND	18.47	ND	142.11	0	0.00	46.79
HIMW-04S	3/27/2019	72.74	ND	25.98	ND	41.65	0	0.00	46.76
HIMW-04I	3/27/2019	72.78	ND	26.05	ND	90.51	0	0.00	46.73
HIMW-04D	3/27/2019	72.65	ND	26.55	ND	177.00	0	0.00	46.10
HIMW-05S	3/27/2019	67.19	ND	20.29	ND	39.00	0	0.00	46.90
HIMW-05I	3/27/2019	67.22	ND	20.42	ND	90.55	0	0.00	46.80
HIMW-05D	3/27/2019	67.22	ND	21.02	ND	136.00	0	0.00	46.20
HIMW-08S	3/27/2019	65.04	ND	18.53	ND	36.95	0	0.00	46.51
HIMW-08I	3/27/2019	65.14	ND	18.73	ND	75.00	0	0.00	46.41
HIMW-08D	3/27/2019	64.93	ND	18.47	ND	114.50	0	0.00	46.46
HIMW-09S	3/27/2019	70.03	ND	23.09	ND	39.53	0	0.00	46.94
HIMW-09I	3/27/2019	69.93	ND	23.00	ND	80.25	0	0.00	46.93
HIMW-09D	3/27/2019	69.96	ND	23.10	ND	123.21	0	0.00	46.86
HIMW-10S	3/27/2019	71.60	ND	23.45	ND	39.32	0	0.00	48.15
HIMW-10I	3/27/2019	71.47	ND	23.65	ND	89.69	0	0.00	47.82
HIMW-11S	3/27/2019	71.62	24.06	24.10	ND	40.25	0.04	0.00	47.52
HIMW-11I	3/27/2019	71.43	ND	23.91	ND	93.29	0	0.00	47.52
HIMW-11D	3/27/2019	71.39	ND	23.94	ND	122.27	0	0.00	47.45
HIMW-12S	3/27/2019	61.58	ND	16.24	ND	33.25	0	0.00	45.34
HIMW-12I	3/27/2019	61.59	ND	NM	ND	NM	NM	NM	NC
HIMW-12D	3/27/2019	61.82	NM	NM	NM	NM	NM	NM	NC
HIMW-13S	3/27/2019	72.83	ND	29.39	ND	48.60	0	0.00	43.44
HIMW-13I	3/27/2019	72.60	ND	29.19	ND	81.50	0	0.00	43.41
HIMW-13D	3/27/2019	72.53	ND	29.21	ND	121.95	0	0.00	43.32
HIMW-14I	3/27/2019	71.71	ND	28.32	ND	95.79	0	0.00	43.39
HIMW-14D	3/27/2019	71.59	ND	30.46	ND	151.75	0	0.00	41.13
HIMW-15I	3/27/2019	64.18	ND	23.82	ND	92.42	0	0.00	40.36
HIMW-15D	3/27/2019	63.96	ND	25.44	ND	152.09	0	0.00	38.52
HIMW-20S	3/27/2019	70.43	ND	24.39	ND	36.75	0	0.00	46.04
HIMW-20I	3/27/2019	70.30	ND	24.19	ND	74.82	0	0.00	46.11
HIMW-21	3/26/2019	NM	ND	21.82	44.92	45.25	0	0.33	NC
HIMW-22	3/27/2019	74.07	ND	29.38	ND	64.40	0	0.00	44.69
HIMW-23	3/27/2019	74.41	ND	29.49	ND	75.27	0	0.00	44.92
HIMW-24	3/27/2019	59.83	ND	14.00	ND	54.95	0	0.00	45.83
HIMW-25	3/27/2019	62.75	ND	16.41	ND	52.15	0	0.00	46.34
HIMW-26I	3/27/2019	68.13	ND	22.20	ND	84.91	0	0.00	45.93
HIMW-26D	3/27/2019	68.02	ND	22.28	ND	137.50	0	0.00	45.74
HIMW-27S	3/27/2019	69.49	ND	23.27	ND	41.14	0	0.00	46.22
HIMW-27I	3/27/2019	68.96	ND	22.68	ND	69.95	0	0.00	46.28
HIMW-28S	3/27/2019	69.87	ND	23.60	ND	41.45	0	0.00	46.27
HIMW-28I	3/27/2019	69.56	ND	23.31	ND	71.49	0	0.00	46.25
PZ-02	3/27/2019	72.96	ND	24.77	ND	35.55	0	0.00	48.19
PZ-03	3/27/2019	64.58	ND	16.72	ND	29.83	0	0.00	47.86
OSMW-02	3/27/2019	71.59	ND	24.23	ND	45.20	0	0.00	47.36
OSMW-03	3/27/2019	71.39	ND	24.09	ND	44.75	0	0.00	47.30

Notes:

(1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
TOR=Top of Riser
LNAPL=Light Non-Aqueous Phase Liquid
DNAPL=Dense Non-Aqueous Phase Liquid
ft bgs=feet below ground surface
ft amsl=feet above mean sea level
ND=Not Detected
NM=Not Measured
NC=Not Calculated

Table 4. Groundwater and NAPL Measurements Third Quarter 2019
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head [(1)]
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-03S	9/23/2019	65.00	ND	17.01	ND	34.44	0	0.00	47.99
HIMW-03I	9/23/2019	64.94	ND	17.62	ND	85.00	0	0.00	47.32
HIMW-03D	9/23/2019	65.26	ND	18.35	ND	142.23	0	0.00	46.91
HIMW-04S	9/23/2019	72.74	ND	25.41	ND	41.66	0	0.00	47.33
HIMW-04I	9/23/2019	72.78	ND	25.74	ND	90.50	0	0.00	47.04
HIMW-04D	9/23/2019	72.65	ND	26.62	ND	177.01	0	0.00	46.03
HIMW-05S	9/23/2019	67.19	ND	19.91	ND	38.98	0	0.00	47.28
HIMW-05I	9/23/2019	67.22	ND	20.27	ND	90.55	0	0.00	46.95
HIMW-05D	9/23/2019	67.22	ND	21.02	ND	136.00	0	0.00	46.20
HIMW-08S	9/23/2019	65.04	ND	18.39	ND	36.97	0	0.00	46.65
HIMW-08I	9/23/2019	65.14	ND	18.44	ND	75.09	0	0.00	46.70
HIMW-08D	9/23/2019	64.93	ND	18.24	ND	114.53	0	0.00	46.69
HIMW-09S	9/23/2019	70.03	ND	22.77	ND	39.72	0	0.00	47.26
HIMW-09I	9/23/2019	69.93	ND	22.74	ND	80.52	0	0.00	47.19
HIMW-09D	9/23/2019	69.96	ND	22.89	ND	123.22	0	0.00	47.07
HIMW-10S	9/23/2019	71.60	ND	23.39	ND	39.27	0	0.00	48.21
HIMW-10I	9/23/2019	71.47	ND	23.21	ND	89.71	0	0.00	48.26
HIMW-11S	9/23/2019	71.62	23.73	23.74	ND	40.20	0.01	0.00	47.88
HIMW-11I	9/23/2019	71.43	ND	23.61	ND	93.30	0	0.00	47.82
HIMW-11D	9/23/2019	71.39	ND	23.64	ND	122.41	0	0.00	47.75
HIMW-12S	9/23/2019	61.58	ND	16.11	ND	33.27	0	0.00	45.47
HIMW-12I	9/23/2019	61.59	ND	NM	ND	NM	NM	NM	NC
HIMW-12D	9/23/2019	61.82	NM	NM	NM	NM	NM	NM	NC
HIMW-13S	9/23/2019	72.83	ND	29.41	ND	48.62	0	0.00	43.42
HIMW-13I	9/23/2019	72.60	ND	29.10	ND	81.65	0	0.00	43.50
HIMW-13D	9/23/2019	72.53	ND	29.20	ND	121.96	0	0.00	43.33
HIMW-14I	9/23/2019	71.71	ND	28.48	ND	95.60	0	0.00	43.23
HIMW-14D	9/23/2019	71.59	ND	31.80	ND	151.82	0	0.00	39.79
HIMW-15I	9/23/2019	64.18	ND	24.32	ND	92.39	0	0.00	39.86
HIMW-15D	9/23/2019	63.96	ND	27.00	ND	152.10	0	0.00	36.96
HIMW-20S	9/23/2019	70.43	ND	24.16	ND	37.72	0	0.00	46.27
HIMW-20I	9/23/2019	70.30	ND	24.02	ND	74.84	0	0.00	46.28
HIMW-21	9/23/2019	NM	ND	18.45	43.80	45.09	0	1.29	NC
HIMW-22	9/23/2019	74.07	ND	29.21	ND	64.46	0	0.00	44.86
HIMW-23	9/23/2019	74.41	ND	29.32	ND	75.29	0	0.00	45.09
HIMW-24	9/23/2019	59.83	ND	13.81	ND	54.90	0	0.00	46.02
HIMW-25	9/23/2019	62.75	ND	16.16	ND	52.20	0	0.00	46.59
HIMW-26I	9/23/2019	68.13	ND	21.87	ND	84.89	0	0.00	46.26
HIMW-26D	9/23/2019	68.02	ND	21.98	ND	137.51	0	0.00	46.04
HIMW-27S	9/23/2019	69.49	ND	22.48	ND	41.10	0	0.00	47.01
HIMW-27I	9/23/2019	68.96	ND	22.41	ND	69.91	0	0.00	46.55
HIMW-28S	9/23/2019	69.87	ND	23.34	ND	41.32	0	0.00	46.53
HIMW-28I	9/23/2019	69.56	ND	23.03	ND	71.44	0	0.00	46.53
PZ-02	9/23/2019	72.96	ND	24.33	ND	35.52	0	0.00	48.63
PZ-03	9/23/2019	64.58	ND	16.31	ND	29.84	0	0.00	48.27
OSMW-02	9/23/2019	71.59	ND	23.92	ND	45.19	0	0.00	47.67
OSMW-03	9/23/2019	71.39	ND	24.72	ND	44.25	0	0.00	46.67

Notes:
[(1)] Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
TOR=Top of Riser
LNAPL=Light Non-Aqueous Phase Liquid
DNAPL=Dense Non-Aqueous Phase Liquid
ft bgs=feet below ground surface
ft amsl=feet above mean sea level
ND=Not Detected
NM=Not Measured
NC=Not Calculated

Table 5. Groundwater and NAPL Measurements First Quarter 2020
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head [(1)]
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-03S	3/12/2020	65.00	ND	17.54	ND	34.44	0	0.00	47.46
HIMW-03I	3/12/2020	64.94	ND	17.51	ND	85.00	0	0.00	47.43
HIMW-03D	3/12/2020	65.26	ND	18.32	ND	142.23	0	0.00	46.94
HIMW-04S	3/12/2020	72.74	ND	24.91	ND	41.66	0	0.00	47.83
HIMW-04I	3/12/2020	72.78	ND	25.02	ND	90.50	0	0.00	47.76
HIMW-04D	3/12/2020	72.65	ND	25.44	ND	177.01	0	0.00	47.21
HIMW-05S	3/17/2020	67.19	ND	20.39	ND	38.98	0	0.00	46.80
HIMW-05I	3/17/2020	67.22	ND	20.35	ND	90.55	0	0.00	46.87
HIMW-05D	3/17/2020	67.22	ND	20.98	ND	136.00	0	0.00	46.24
HIMW-08S	3/12/2020	65.04	ND	18.61	ND	36.97	0	0.00	46.43
HIMW-08I	3/12/2020	65.14	ND	18.76	ND	75.09	0	0.00	46.38
HIMW-08D	3/12/2020	64.93	ND	18.57	ND	114.53	0	0.00	46.36
HIMW-09S	3/12/2020	70.03	ND	23.08	ND	39.72	0	0.00	46.95
HIMW-09I	3/12/2020	69.93	ND	23.04	ND	80.52	0	0.00	46.89
HIMW-09D	3/12/2020	69.96	ND	23.11	ND	123.22	0	0.00	46.85
HIMW-10S	3/12/2020	71.60	ND	23.69	ND	39.27	0	0.00	47.91
HIMW-10I	3/12/2020	71.47	ND	23.51	ND	89.71	0	0.00	47.96
HIMW-11S	3/12/2020	71.62	23.73	24.11	ND	40.20	0.01	0.00	47.51
HIMW-11I	3/12/2020	71.43	ND	23.93	ND	93.30	0	0.00	47.50
HIMW-11D	3/12/2020	71.39	ND	23.93	ND	122.41	0	0.00	47.46
HIMW-12S	3/17/2020	61.58	ND	16.63	ND	33.27	0	0.00	44.95
HIMW-12I	NM	61.59	ND	NM	ND	NM	NM	NM	NC
HIMW-12D	NM	61.82	NM	NM	NM	NM	NM	NM	NC
HIMW-13S	3/12/2020	72.83	ND	29.61	ND	48.62	0	0.00	43.22
HIMW-13I	3/12/2020	72.60	ND	29.39	ND	81.65	0	0.00	43.21
HIMW-13D	3/12/2020	72.53	ND	29.40	ND	121.96	0	0.00	43.13
HIMW-14I	3/12/2020	71.71	ND	30.56	ND	95.60	0	0.00	41.15
HIMW-14D	3/12/2020	71.59	ND	28.61	ND	151.82	0	0.00	42.98
HIMW-15I	3/12/2020	64.18	ND	24.17	ND	92.39	0	0.00	40.01
HIMW-15D	3/12/2020	63.96	ND	25.41	ND	152.10	0	0.00	38.55
HIMW-20S	3/12/2020	70.43	ND	24.45	ND	37.72	0	0.00	45.98
HIMW-20I	3/12/2020	70.30	ND	24.32	ND	74.84	0	0.00	45.98
HIMW-21	3/17/2020	NM	ND	18.83	43.32	45.09	0	1.77	NC
HIMW-22	3/12/2020	74.07	ND	29.61	ND	64.46	0	0.00	44.46
HIMW-23	3/12/2020	74.41	ND	29.61	ND	75.29	0	0.00	44.80
HIMW-24	3/12/2020	59.83	ND	14.11	ND	54.90	0	0.00	45.72
HIMW-25	3/12/2020	62.75	ND	16.50	ND	52.20	0	0.00	46.25
HIMW-26I	3/12/2020	68.13	ND	22.35	ND	84.89	0	0.00	45.78
HIMW-26D	3/12/2020	68.02	ND	22.26	ND	137.51	0	0.00	45.76
HIMW-27S	3/12/2020	69.49	ND	23.29	ND	41.10	0	0.00	46.20
HIMW-27I	3/12/2020	68.96	ND	22.72	ND	69.91	0	0.00	46.24
HIMW-28S	3/12/2020	69.87	ND	23.39	ND	41.32	0	0.00	46.48
HIMW-28I	3/12/2020	69.56	ND	23.32	ND	71.44	0	0.00	46.24
PZ-02	3/12/2020	72.96	ND	24.70	ND	35.52	0	0.00	48.26
PZ-03	3/12/2020	64.58	ND	16.63	ND	29.84	0	0.00	47.95
OSMW-02	3/12/2020	71.59	ND	23.95	ND	45.19	0	0.00	47.64
OSMW-03	3/12/2020	71.39	ND	24.07	ND	44.25	0	0.00	47.32

Notes:

[(1)] Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
MGP=Manufactured Gas Plant
TOR=Top of Riser
LNAPL=Light Non-Aqueous Phase Liquid
DNAP= Dense Non-Aqueous Phase Liquid
ft bgs=feet below ground surface
ft amsl=feet above mean sea level
ND: Not Detected
NM=Not Measured
NC=Not Calculated

Table 6. NAPL Gauging and Recovery
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Well ID: HIMW-021				
Date	**Thickness of LNAPL (feet)**	**Thickness of DNAPL (feet)**	**Volume of NAPL Removed[(1)] (gallons)**	**Total Product Volume Recovered During PRR Period (gallons)**
March 26, 2019	ND	0.3	0.0	0.0
April 24, 2019	ND	1.1	1.2	1.2
May 14, 2019	ND	0.4	0.0	1.2
June 12, 2019	ND	0.7	0.0	1.2
July 17, 2019	ND	0.9	0.0	1.2
August 13, 2019	ND	0.8	0.0	1.2
September 23, 2019	ND	1.3	0.0	1.2
October 22, 2019	ND	1.66	2.23	3.4
November 22, 2019	ND	0.78	0.0	3.4
December 20, 2019	ND	0.97	0.0	3.4
January 17, 2020	ND	1.68	0.0	3.4
February 19, 2020	ND	1.71	0.0	3.4
March 17, 2020	ND	1.77	0.0	3.4
Total Volume of NAPL Recovered from April 2007 to Q1 2019				**861.2**
Total Volume of NAPL Recovered To-Date				**864.6**

Notes:
MGP=Manufactured Gas Plant
[(1)] Volume of product recovered was estimated by using the markings on a five gallon bucket.
LNAPL=Light Non-Aqueous Phase Liquid
DNAPL=Dense Non-Aqueous Phase Liquid
PRR=Periodic Review Report
ND=NAPL Not Detected
NC=Not Collected

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Analyte	Units	CAS No.	NYS AWQS	HIMW-03S 3/20/2019	HIMW-03S 9/19/2019	HIMW-03S 3/16/2020	HIMW-03I 3/20/2019	DUP-02 3/20/2019 HIMW-03I	HIMW-03I 9/19/2019	HIMW-03I 3/16/2020	HIMW-03D 3/20/2019	HIMW-03D 9/19/2019	HIMW-03D 3/16/2020	HIMW-05S 3/26/2019	HIMW-05S 9/19/2019	HIMW-05S 3/16/2020	DUP-02 3/16/2020 HIMW-05S
BTEX	µg/L																
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L																
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 UJ	2 U	2 U	2.1 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 UJ
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 UJ
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Analyte	Units	CAS No.	NYS AWQS	Sample Name / Sample Date / Parent Sample	HIMW-05I 3/26/2019	HIMW-05I 9/19/2019	HIMW-05I 3/17/2020	HIMW-05D 3/25/2019	HIMW-05D 9/19/2019	HIMW-05D 3/17/2020	HIMW-08S 3/18/2019	HIMW-08S 9/17/2019	HIMW-08S 3/11/2020	HIMW-08I 3/18/2019	HIMW-08I 9/17/2019	HIMW-08I 3/11/2020	HIMW-08D 3/18/2019	HIMW-08D 9/17/2019
BTEX	µg/L																	
Benzene		71-43-2	1		**0.65 J**	1 U	1 U	**0.75 J**	**0.54 J**	1 U	**650**	**0.66 J**	**4.8**	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5		1 U	1 U	1 U	**12**	**20**	**32**	**260**	1 U	**1**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5		**2.1**	1 U	1 U	**2.1**	**2.1 J**	**1.3**	**50**	1 U	**0.3 J**	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5		**50**	**37**	**25**	**150**	**200**	**240**	**140**	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE		**52.75**	**37**	**25**	**164.85**	**222.64**	**273.3**	**1100**	**0.66**	**6.1**	ND	ND	ND	ND	ND
PAH17	µg/L																	
Acenaphthene		83-32-9	20*		**14 J**	250 U	**9.9 J**	100 U	**11 J**	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE		**160**	**160 J**	**140**	**100**	**130**	**96 J**	**1.9 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*		100 U	250 U	50 U	100 U	100 U	200 U	**0.77 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*		10 U	25 U	5 U	10 U	10 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*		20 U	50 U	10 U	20 U	20 U	40 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*		10 U	25 U	5 U	10 U	10 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE		100 U	250 U	50 U	100 U	100 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND		10 U	25 U	5 U	10 U	10 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*		20 U	50 U	10 U	20 U	20 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE		10 U	25 U	5 U	10 U	10 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*		100 U	250 U	50 U	100 U	100 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*		**36 J**	**33 J**	**25 J**	**22 J**	**21 J**	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*		20 U	50 U	10 U	20 U	20 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE		**180**	**120 J**	**86**	**260**	**300**	**350**	**2.4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*		**1000**	**800**	**640**	**1200**	**1500**	**1900**	**81**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene		85-01-8	50*		**23 J**	**34 J**	**18 J**	100 U	**9.6 J**	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*		100 U	250 U	50 U	100 U	100 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE		**1413**	**1147**	**918.9**	**1582**	**1971.6**	**2346**	**86.07**	ND	ND	ND	ND	ND	ND	ND

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Analyte	Units	CAS No.	NYS AWQS	HIMW-08D 3/11/2020	HIMW-12S 3/19/2019	HIMW-12S 9/17/2019	HIMW-12S 3/16/2020	HIMW-13S 3/19/2019	HIMW-13S 9/18/2019	DUP-02 9/18/2019 HIMW-13S	HIMW-13S 3/11/2020	HIMW-13I 3/19/2019	HIMW-13I 9/18/2019	HIMW-13I 3/11/2020	HIMW-13D 3/19/2019	HIMW-13D 9/18/2019	HIMW-13D 3/11/2020
BTEX	µg/L																
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.47 J**	**0.9 J**	**1.1**
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.47**	**0.9**	**1.1**
PAH17	µg/L																
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7.7 J**	**4.1 J**	**4.5 J**
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**14**	**7.2 J**	**7 J**
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**21.7**	**11.3**	**11.5**

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Analyte	Units	CAS No.	NYS AWQS	HIMW-14I 3/19/2019	HIMW-14I 9/18/2019	HIMW-14I 3/12/2020	HIMW-14D 3/19/2019	HIMW-14D 9/18/2019	HIMW-14D 3/12/2020	HIMW-15I 3/19/2019	HIMW-15I 9/18/2019	HIMW-15I 3/12/2020	HIMW-15D 3/19/2019	HIMW-15D 9/18/2019	HIMW-15D 3/12/2020	HIMW-20S 3/20/2019	HIMW-20S 9/18/2019
BTEX	µg/L																
Benzene		71-43-2	1	**1.2**	**1**	**0.8 J**	1 U	**0.25 J**	1 U	**0.57 J**	**0.52 J**	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**1.2**	**1**	**0.8**	ND	**0.25**	ND	**0.57**	**0.52**	ND	ND	ND	ND	ND	ND
PAH17	µg/L																
Acenaphthene		83-32-9	20*	**5.1 J**	**1.8 J**	**4.1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	**6 J**	**2.8 J**	**5 J**	10 U	10 U	10 U	**4.5 J**	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	**1.8 J**	**1.1 J**	**1.4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene		85-01-8	50*	**1.8 J**	**1.4 J**	**1.7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**14.7**	**7.1**	**12.2**	ND	ND	ND	**4.5**	**2**	**2**	ND	ND	ND	ND	ND

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Analyte	Units	CAS No.	NYS AWQS	HIMW-20S 3/13/2020	HIMW-20I 3/20/2019	HIMW-20I 9/18/2019	HIMW-20I 3/13/2020	HIMW-22 3/19/2019	HIMW-22 9/17/2019	HIMW-22 3/12/2020	HIMW-23 3/19/2019	HIMW-23 9/17/2019	HIMW-23 3/12/2020	HIMW-24 3/18/2019	HIMW-24 9/17/2019	HIMW-24 3/13/2020	HIMW-25 3/18/2019
BTEX	µg/L																
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.7**	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**5.5 J**	3.9 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.5**	**2.7**	ND	ND
PAH17	µg/L																
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.7 J**	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**6 J**	**0.91 J**	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.9 J**	**2 J**	10 U	10 U
Naphthalene		91-20-3	10*	2 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	10 U	10 U	**17**	**45**	2 U	10 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**31.6**	**47.91**	ND	ND

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Analyte	Units	CAS No.	NYS AWQS	HIMW-25 9/17/2019	HIMW-25 3/13/2020	HIMW-26I 3/25/2019	HIMW-26I 9/19/2019	HIMW-26I 3/12/2020	HIMW-26D 3/25/2019	HIMW-26D 9/19/2019	HIMW-26D 3/12/2020	HIMW-27S 3/18/2019	HIMW-27S 9/17/2019	HIMW-27S 3/11/2020	HIMW-27I 3/18/2019	DUP-01 Q1 3/18/2019 HIMW-27I	HIMW-27I 9/17/2019
BTEX	µg/L																
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**17**	**8.2**	**3.9**	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	**0.68 J**	**3.7 J**	**0.4 J**	**18**	**20**	**20**	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**540**	**500**	**510**	**0.55 J**	**0.44 J**	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	**72**	**65**	**27**	**590**	**550**	**510**	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	**72.68**	**68.7**	**27.4**	**1165**	**1078.2**	**1043.9**	**0.55**	**0.44**	ND
PAH17	µg/L																
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	100 U	100 U	**5.7 J**	**85 J**	**61 J**	**82 J**	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	**88 J**	**83 J**	**72**	100 U	250 U	100 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	100 U	100 U	50 U	**8.8 J**	250 U	**6.7 J**	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 UJ	1 U	1 U	1 U	10 U	10 U	5 U	10 U	25 U	10 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	20 U	20 U	10 U	20 UJ	50 U	20 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	10 U	10 U	5 U	10 U	25 U	10 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	100 U	100 U	50 U	100 U	250 U	100 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 UJ	1 U	1 U	1 U	10 U	10 U	5 U	10 U	25 U	10 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	20 U	20 U	10 U	20 U	50 U	20 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	10 U	10 U	5 U	10 U	25 U	10 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	100 U	100 U	50 U	100 U	250 U	100 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	**20 J**	**17 J**	**15 J**	**42 J**	**32 J**	**37 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	20 U	20 U	10 U	20 U	50 U	20 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	**290**	**250**	**280**	**350**	**270**	**370**	10 U	10 U	10 U
Naphthalene		91-20-3	10*	10 U	2 U	**1.1 J**	10 U	10 U	**1200**	**870**	**780**	**1300**	**930**	**1000**	10 U	10 U	10 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	**17 J**	**20 J**	**14 J**	**49 J**	**32 J**	**36 J**	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 UJ	100 U	100 U	50 U	100 U	250 U	100 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	**1.1**	ND	ND	**1615**	**1240**	**1166.7**	**1834.8**	**1325**	**1531.7**	ND	ND	ND

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

				Sample Name	HIMW-27I	HIMW-28S	HIMW-28S	Dup-01	HIMW-28S	HIMW-28I	HIMW-28I
				Sample Date	3/11/2020	3/18/2019	9/17/2019	9/17/2019	3/11/2020	3/18/2019	9/17/2019
				Parent Sample				HIMW-28S			
Analyte	**Units**	**CAS No.**	**NYS AWQS**								
BTEX	µg/L										
Benzene		71-43-2	1	1 U	**1.5**	**3.1**	**2.6 J**	**0.81 J**	1 U	1 U
Toluene		108-88-3	5	1 U	**1.3**	**1.5 J**	**1.4 J**	**3.7**	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	**68**	**76**	**74**	**190**	1 U	1 U
Total Xylene		1330-20-7	5	2 U	**6.9**	4.8 U	6.1 U	**17**	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	**77.7**	**80.6**	**78**	**211.51**	ND	ND
PAH17	µg/L										
Acenaphthene		83-32-9	20*	10 U	**13**	**21**	**21**	**24**	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	**0.99 J**	**2.1 J**	**2 J**	**2.1 J**	10 U	10 U
Anthracene		120-12-7	50*	10 U	**2.2 J**	**3.7 J**	**3.6 J**	**3.4 J**	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	**1.3 J**	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	**8.9 J**	**20**	**20**	**19**	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	**26**	**19**	**18**	**44**	10 U	10 U
Naphthalene		91-20-3	10*	10 U	**120**	**150**	**150**	**160**	10 U	10 U
Phenanthrene		85-01-8	50*	10 U	**9.2 J**	**23**	**23**	**20**	10 U	10 U
Pyrene		129-00-0	50*	10 U	**2.1 J**	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	**183.69**	**238.8**	**237.6**	**272.5**	ND	ND

Table 7. Groundwater Analytical Results
Hempstead Intersection Street Former MGP Site
National Grid
Hempstead, New York

Notes:
MGP = Manufactured Gas Plant
µg/L = micrograms per liter or parts per billion (ppb)
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.
Total PAH17 is calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

Bolding indicates a detected result concentration
Gray shading and bolding indicates that the detected result value exceeds the NYS AWQS

Validation Qualifiers:
J = The result is an estimated value.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 8. Groundwater Treatment Performance Monitoring, March 2019 - March 2020
Hempstead Intersection Street Former MGP Site
National Grid

System #1

	Q1 2019			Q2 2019									Q3 2019									Q4 2019			Q1 2020		
	March 26			April 23-24			May 13-14			June 11-12			July 16-17			August 12-13			September 19-20			October 21-22			March 10-17		
ID	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)
MP-1-1S	25.33	0.0	15	25.13	0.9	16	24.70	0.0	18	24.46	0.2	17	24.71	0.0	21	24.32	0.4	29	25.03	0.0	24	25.88	32.5	26.00	25.21	0.0	16.00
MP-1-1D	25.41	0.0	19	25.10	0.4	22	24.67	0.0	17	24.42	0.3	18	24.69	0.0	3	24.37	7.5	27	25.10	0.0	23	25.86	23.1	29.00	25.33	2.0	16.00
MP-1-2S	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	19.16	0.7	16.00
MP-1-2D	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	19.71	0.0	18.00
MP-1-3S	17.98	0.2	13	17.48	0.7	27	17.12	NM	15	16.87	16.1	14	17.24	8.0	16	16.85	7.6	24	17.62	1.5	28	18.35	5.6	24.00	17.90	NM	23.00
MP-1-3D	17.79	0.0	11	17.52	7.2	20	17.05	NM	17	16.81	7.2	18	17.16	2.7	18	16.78	3.9	22	17.55	2.6	23	18.26	1.3	22.00	17.92	NM	24.00
MP-1-4S	20.35	0.0	25	20.13	0.0	24	19.72	0.0	5	19.42	0.1	6	19.82	0.0	3	19.41	0.0	18	20.27	0.0	20	20.93	0.0	16.00	20.57	0.4	16.00
MP-1-4D	20.73	0.0	26	20.21	3.3	26	19.81	0.0	14	19.62	0.2	11	19.92	0.0	4	19.69	0.0	6	20.34	0.0	17	21.04	0.0	15.00	20.77	1.7	15.00
MP-1-5	25.16	0.1	23	24.96	0.7	25	24.46	NM	23	24.11	1.1	28	24.45	0.0	24	24.15	2.0	23	24.87	0.3	26	25.66	18.6	26.00	25.31	0.2	29.00
MP-1-6	19.78	0.2	24	17.03	0.8	13	16.72	0.0	12	16.38	0.1	11	16.69	0.0	11	16.39	0.0	21	17.14	0.6	17	17.86	0.1	9.00	17.48	NM	18.00
MP-1-7	20.73	0.0	18	20.34	0.6	23	19.91	0.0	20	19.72	0.0	22	20.03	0.0	21	19.52	0.0	10	20.56	0.5	24	21.14	0.0	23.00	20.91	0.7	18.00
MP-1-8	22.01	0.0	3	21.71	2.2	28	20.98	0.0	19	21.09	0.0	21	21.39	0.0	14	21.10	1.0	7	21.92	0.0	3	22.51	0.0	3.00	22.19	0.4	3.00

System #2

	Q1 2019			Q2 2019									Q3 2019									Q4 2019			Q1 2020		
	March 25			April 23-24			May 13-14			June 11-12			July 16-17			August 12-13			September 19-20			October 21-22			March 10-17		
ID	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)	DTW (ft)	PID (ppm)	DO (mg/L)
MP-2-1	28.22	0.1	17	27.61	0.4	26	25.57	NM	19	27.28	6.5	15	27.41	0.0	19	27.17	7.3	16	27.94	0.0	21	28.77	0.0	18.00	28.37	0.7	19.00
MP-2-2	29.64	0.0	21	29.45	0.7	23	29.50	0.0	26	26.77	0.1	18	29.04	0.0	18	28.69	0.0	21	29.28	0.0	20	30.30	0.1	22.00	29.88	0.3	16.00
MP-2-3S	29.49	0.0	20	29.23	0.2	19	28.89	0.0	22	28.55	0.0	21	28.89	0.0	26	28.64	0.4	22	29.28	0.0	22	30.11	0.1	17.00	29.65	NM	24.00
MP-2-3D	29.52	0.0	18	29.35	0.7	25	28.92	0.1	18	28.76	0.0	19	29.02	0.0	24	28.77	3.7	18	29.44	0.0	20	30.22	0.0	21.00	29.75	23.5	11.00
MP-2-4	24.98	0.0	35	17.90	6.0	26	17.49	NM	22	17.29	7.5	28	NM	NM	NM	17.51	6.7	27	18.07	5.6	24	18.83	1.8	26.00	18.44	0.8	15.00
MP-2-5	16.33	0.0	21	16.21	0.9	17	16.57	0.0	15	15.46	0.1	15	15.83	0.0	14	15.48	0.6	14	16.13	0.0	14	17.01	0.0	13.00	16.66	0.0	13.00

Notes:

On October 24, 2019, NYSDEC approved changing the frequency of dissolved oxygen sampling to quarterly.

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

MGP=Manufactured Gas Plant

DTW=Depth to water (feet)

O_2=Oxygen measurement of well headspace (percent oxygen)

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

DO=Dissolved Oxygen concentration (percent of milligrams per liter)

NM=Not Measured

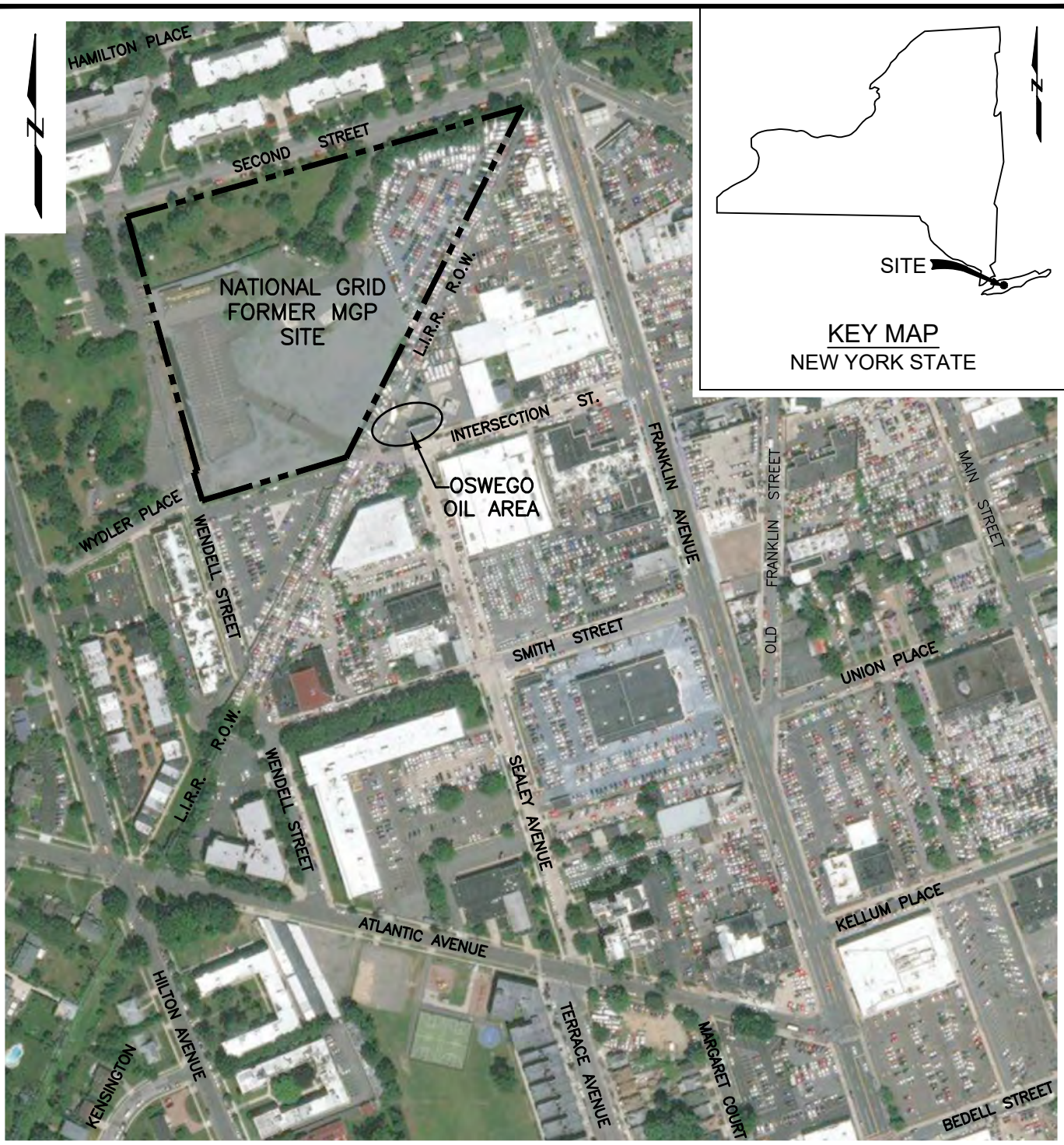
NA:=Not Accessible

ppm=parts per million

mg/L=milligrams per liter

ft=feet

Figures



KEY MAP
NEW YORK STATE

SOURCES:

1. FIGURE BASED ON *FIGURE 1: SITE LOCATION, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/5/19.
2. AERIAL PHOTO FROM BING MAPS AERIAL LAYER, ACCESSED VIA ARCGIS ONLINE, © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS, ACCESSED ON 1/27/2020.

LEGEND:

NATIONAL GRID PROPERTY BOUNDARY

0 300 600

SCALE: 1" = 300'

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Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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SITE LOCATION

Project 1905774 | April 2020 | Fig. 1

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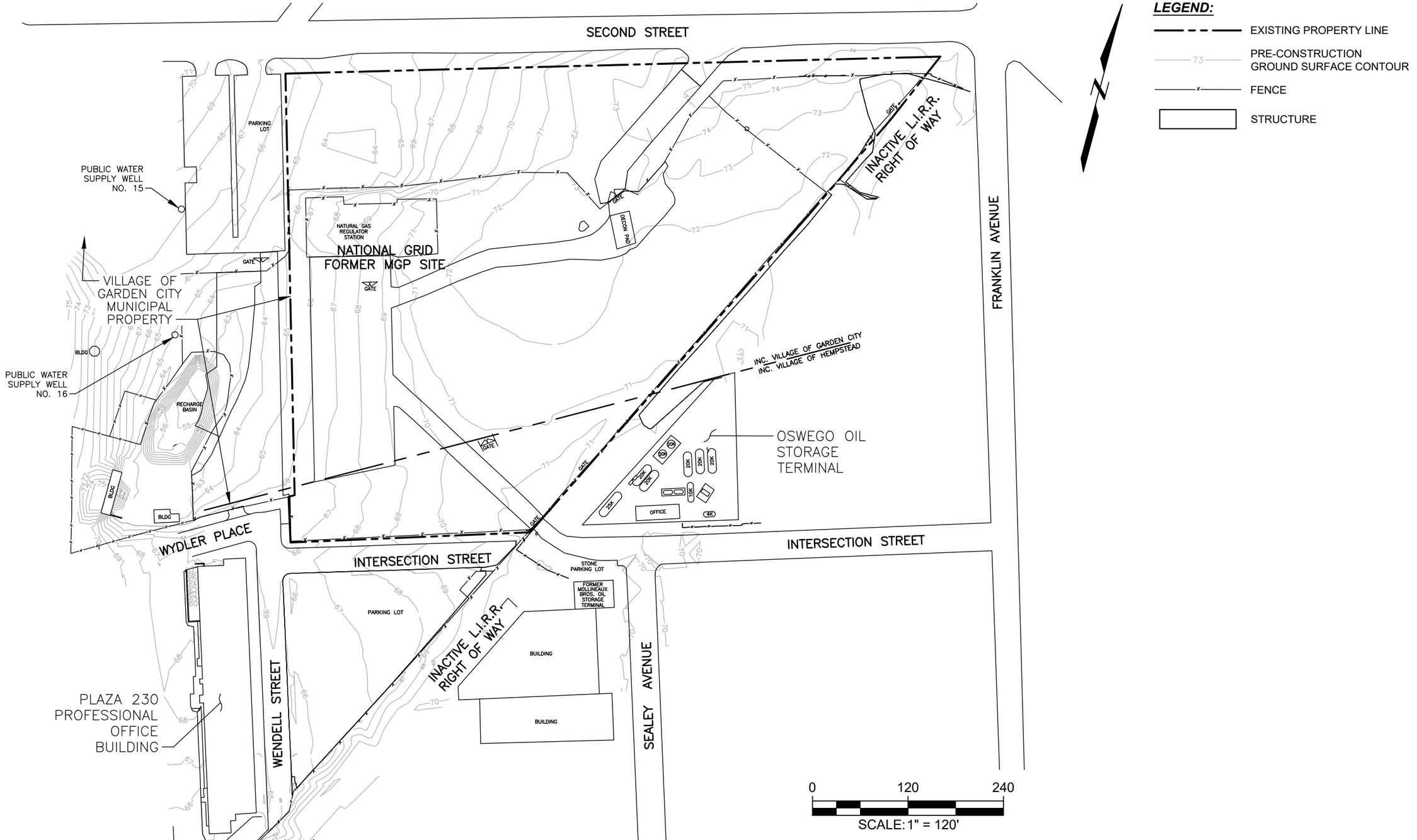

SOURCE:

FIGURE BASED ON *FIGURE 2: PROJECT SITE MAP, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE*, PREPARED BY AECOM, SCALE: 1" = 60', DATE: 2/5/19.

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PROJECT SITE MAP

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Parcel ID	Parcel Address
34.-145-209	18 Hilton Ave
34.-147-102	101 Second St
34.-147-116	34 Hamilton Pl
34.-147-140	38 Hamilton Pl
34.-147-158	131 Second St
34.-147-200	Franklin Ave
34.-147-242	12 Hamilton Pl
34.-147-243	Franklin Ave
34.-147-245	40 Hamilton Pl
34.-147-247	133 Second St
34.-147-248	135 Second St
34.-147-93	19 Hilton Ave
34.-147-98	15 Hilton Ave
34.-173-1	Cedar Valley Ave
34.-173-12	230 Hilton Ave
34.-173-13	7 Medical St
34.-173-14	200 Hilton Ave
34.-173-3	Hilton Ave
34.-174-1	Wendell St
34.-174-11	45 Intersection St
34.-174-13	299 N Franklin St
34.-174-14	301 Franklin St
34.-174-15	130 Franklin Ave
34.-174-17	23 Intersection St
34.-174-208.A	Cedar Valley Ave
34.-174-208.B	Intersection St
34.-174-209.B	Intersection St
34.-174-5	301-305 Franklin St
34.-174-8	283 Franklin St
34.-175-1	49 Sealy Ave
34.-175-2	55 Sealey Ave
34.-175-204	63 Smith St
34.-175-205	77 Smith St
34.-175-207	61 Sealey Ave
34.-175-208	57 Sealey Ave
34.-175-209	73-75 Sealey Ave
34.-175-210	77 Sealey Ave
34.-175-8	Intersection St
34.-176-1	283 N Franklin St
34.-176-10	277 N Franklin St
34.-176-103	283 N Franklin St
34.-176-104	17 Smith St
34.-176-106	32-44 Intersection St
34.-176-11	Sealey Ave
34.-176-113	17-21 Smith St
34.-176-12	54 Sealey Ave
34.-176-14	273 Franklin St
34.-176-213	52 Sealey Ave
34.-176-9	265 N Franklin St
34.-544-10	17 Barnes Ln
34.-544-23	12 Hilton Ave
34.-544-25	90 Second St
34.-544-26	92 Second St
34.-544-9	19 Barnes Ln
34.-545-10	20 Barnes Ln
34.-545-11	16 Barnes Ln
34.-545-20	225 Hilton Ave
34.-545-23	235 Hilton Ave
34.-545-25	217 Hilton Ave
34.-545-26	179 Atlantic Ave
34.-545-27	215 Hilton Ave
34.-545-28	189 Atlantic Ave

SOURCES:

1. FIGURE BASED ON *FIGURE 3: PARCEL BOUNDARIES, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 200', DATE: 2/5/19.
2. AERIAL PHOTO FROM BING MAPS AERIAL LAYER, ACCESSED VIA ARCGIS ONLINE, © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS, ACCESSED ON 1/28/2020.

NOTE:

PARCEL BOUNDARIES DERIVED FROM NASSAU COUNTY DEPARTMENT OF ASSESSMENT LAND RECORDS VIEWER (LVR) (NASSUA COUNTY, 2/5/19).

0 200 400

SCALE: 1" = 200'

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PARCEL BOUNDARIES

April 2020 Fig. 3

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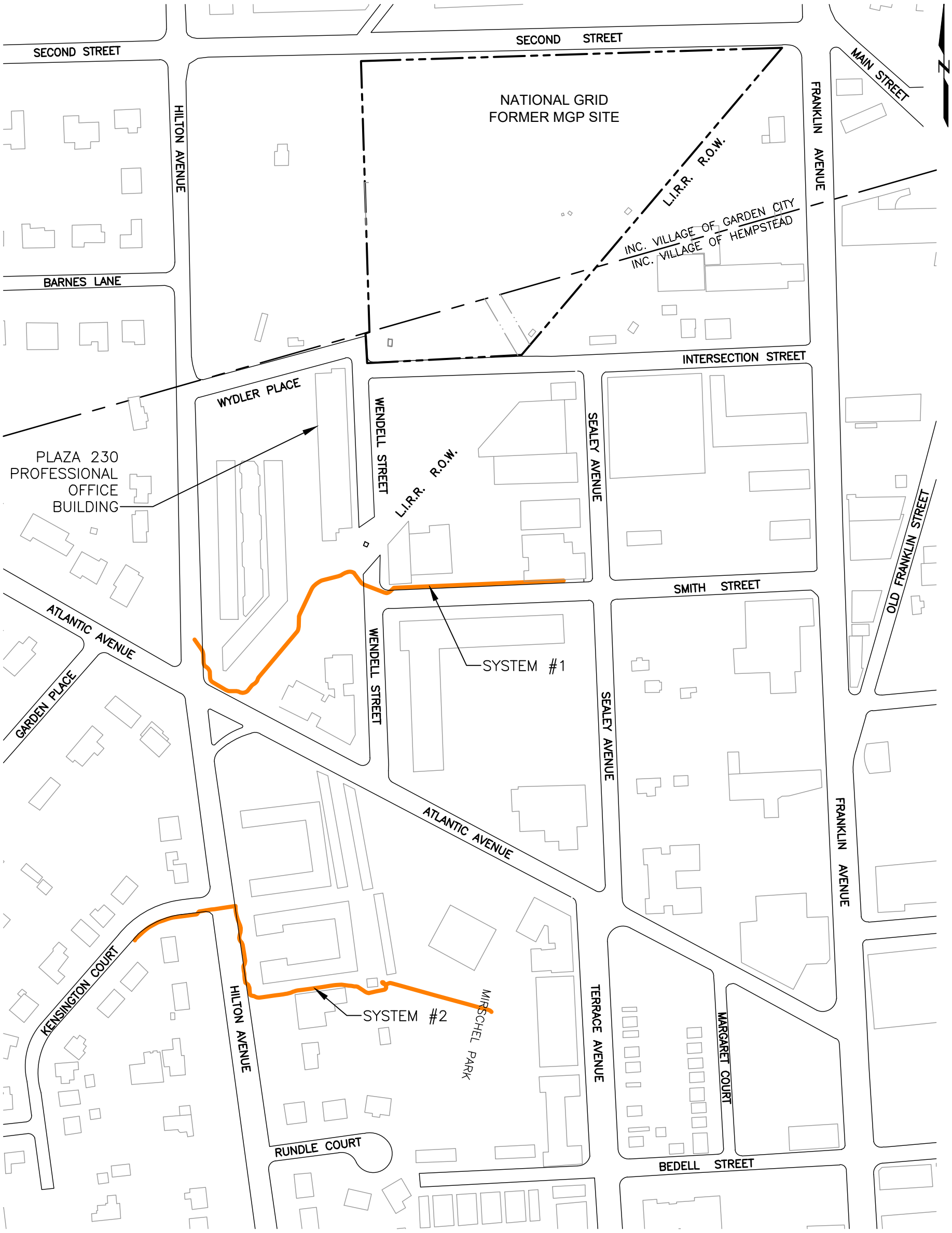

SOURCE:
FIGURE BASED ON *FIGURE 4: GROUNDWATER OXYGENATION SYSTEMS, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 150', DATE: 2/5/19.

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GROUNDWATER
OXYGENATION SYSTEM

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HIMW-28 S,I		
DEPTH	TOT. BTEX	TOT. PAH
20-40	ND-213 (77.7)	10-738 (183.69)
50-70	ND-213 (ND)	ND (ND)

HIMW-25		
DEPTH	TOT. BTEX	TOT. PAH
42-52	ND-1,320 (ND)	ND-573 (ND)

HIMW-13 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
38-48	ND-11 (ND)	ND (ND)
70-80	ND-313 (ND)	ND-156 (ND)
110-120	1-30 (0.47)	ND-28 (21.7)

HIMW-27 S, I		
DEPTH	TOT. BTEX	TOT. PAH
20-40	447-1,967 (1,165)	695-1,884 (1,834.8)
50-70	ND-2 (1.13)	ND-17 (ND)

HIMW-24		
DEPTH	TOT. BTEX	TOT. PAH
44.6-54.6	ND-900 (5.5)	ND-1,024 (31.6)

HIMW-14 I, D		
DEPTH	TOT. BTEX	TOT. PAH
85-95	2-273 (1.2)	19-288 (14.7)
140-150	ND-15 (ND)	ND-6 (ND)

HIMW-15 I, D		
DEPTH	TOT. BTEX	TOT. PAH
80-90	1-111 (0.57)	ND-273 (4.5)
141.5-151.5	ND-94 (ND)	ND-1 (ND)

HIMW-12 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
22-32	ND-338.8 (ND)	ND-1,391 (ND)

HIMW-03 S,I,D		
DEPTH	TOT. BTEX	TOT. PAH
23-33	ND-36 (ND)	ND (ND)
80.5-90.5	ND-13 (ND)	ND (ND)
133-143	ND-8.2 (ND)	ND-30 (ND)

HIMW-20 S, I		
DEPTH	TOT. BTEX	TOT. PAH
25-35	ND-3 (ND)	ND-5 (ND)
63-73	ND-474 (ND)	ND-3,968 (ND)

HIMW-22		
DEPTH	TOT. BTEX	TOT. PAH
54-64	ND-83 (ND)	ND-91 (ND)

HIMW-05 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
27-37	ND-232 (ND)	ND-765 (ND)
80-90	50-439 (52.75)	891-5,337 (1,413)
130-140	ND-359 (164.85)	ND-2,698 (1,582)

HIMW-26 I, D		
DEPTH	TOT. BTEX	TOT. PAH
65-85	ND (ND)	ND-3 (1.1)
115-135	14-105 (72.68)	118-2,138 (1,615)

HIMW-08 S,I,D		
DEPTH	TOT. BTEX	TOT. PAH
25-35	ND-8,240 (1,100)	ND-3,069 (86.07)
63-73	ND-457 (ND)	ND-251 (ND)
102-112	ND-16 (ND)	ND-46 (ND)

HIMW-23		
DEPTH	TOT. BTEX	TOT. PAH
66-76	ND-43 (ND)	ND-43 (ND)

LOCATION ID		
DEPTH	TOT. BTEX	TOT. PAH
23-33	ND-36 (ND)	ND (ND)
CONCENTRATION UNITS ARE MICROGRAMS PER LITER		
CONCENTRATION UNITS IN GREEN ARE FROM MARCH 2019		

LEGEND:

- MP-1-2D — OXYGEN SYSTEM MONITORING WELL
- HMW-20S — MONITORING WELL
- PZ-03 — PIEZOMETER
- HISTORICAL GROUNDWATER PLUME (>100 µg/L)
- LIMIT OF MGP SOURCE MATERIAL TREATMENT
- NATIONAL GRID PROPERTY LINE
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. CONTAMINATION CONCENTRATIONS LIKELY INFLUENCED BY THIRD PARTY
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1000 ug/L

SOURCE:

FIGURE BASED ON FIGURE FROM AECOM FIGURE 9, TITLED *"EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS-SEPTEMBER 2018"*, DATED FEB. 2019.

0 300 600

SCALE: 1" = 300'

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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EXTENT OF DISSOLVED PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS MARCH 2019

Project 1905774 | April 2020 | Fig. 5

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HIMW-28 S,I		
DEPTH	TOT. BTEX	TOT. PAH
20-40	ND-213 (85.4)	10-738 (238.8)
50-70	ND-213 (ND)	ND (ND)

HIMW-25		
DEPTH	TOT. BTEX	TOT. PAH
42-52	ND-1,320 (ND)	ND-573 (ND)

HIMW-13 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
38-48	ND-11 (ND)	ND (ND)
70-80	ND-313 (ND)	ND-156 (ND)
110-120	1-30 (0.9)	ND-28 (11.3)

HIMW-27 S, I		
DEPTH	TOT. BTEX	TOT. PAH
20-40	447-1,967 (1,078.2)	695-1,884 (1,325)
50-70	ND-2 (0.38)	ND-17 (ND)

HIMW-24		
DEPTH	TOT. BTEX	TOT. PAH
44.6-54.6	ND-900 (6.6)	ND-1,024 (47.91)

HIMW-14 I, D		
DEPTH	TOT. BTEX	TOT. PAH
85-95	2-273 (1.0)	19-288 (7.1)
140-150	ND-15 (0.25)	ND-6 (ND)

HIMW-15 I, D		
DEPTH	TOT. BTEX	TOT. PAH
80-90	1-111 (0.52)	ND-273 (2.0)
141.5-151.5	ND-94 (ND)	ND-1 (ND)

HIMW-12 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
22-32	ND-338.8 (ND)	ND-1,391 (ND)

HIMW-03 S,I,D		
DEPTH	TOT. BTEX	TOT. PAH
23-33	ND-36 (ND)	ND (ND)
80.5-90.5	ND-13 (ND)	ND (ND)
133-143	ND-8.2 (ND)	ND-30 (ND)

HIMW-20 S, I		
DEPTH	TOT. BTEX	TOT. PAH
25-35	ND-3 (ND)	ND-5 (ND)
63-73	ND-474 (ND)	ND-3,968 (ND)

HIMW-22		
DEPTH	TOT. BTEX	TOT. PAH
54-64	ND-83 (ND)	ND-91 (ND)

HIMW-05 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
27-37	ND-232 (ND)	ND-765 (ND)
80-90	50-439 (37.0)	891-5,337 (1,147)
130-140	ND-359 (222.64)	ND-2,698 (1,971.6)

HIMW-26 I, D		
DEPTH	TOT. BTEX	TOT. PAH
65-85	ND (ND)	ND-3 (ND)
115-135	14-105 (69.11)	118-2,138 (1,240)

HIMW-08 S,I,D		
DEPTH	TOT. BTEX	TOT. PAH
25-35	ND-8,240 (0.66)	ND-3,069 (ND)
63-73	ND-457 (ND)	ND-251 (ND)
102-112	ND-16 (ND)	ND-46 (ND)

HIMW-23		
DEPTH	TOT. BTEX	TOT. PAH
66-76	ND-43 (ND)	ND-43 (ND)

LOCATION ID		
DEPTH	TOT. BTEX	TOT. PAH
23-33	ND-36 (ND)	ND (ND)
CONCENTRATION UNITS ARE MICROGRAMS PER LITER		
CONCENTRATION UNITS IN GREEN ARE FROM SEPTEMBER 2019		

LEGEND:

- MP-1-2D — OXYGEN SYSTEM MONITORING WELL
- HIMW-20S — MONITORING WELL
- PZ-03 — PIEZOMETER
- HISTORICAL GROUNDWATER PLUME (>100 µg/L)
- LIMIT OF MGP SOURCE MATERIAL TREATMENT
- NATIONAL GRID PROPERTY LINE
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. CONTAMINATION CONCENTRATIONS LIKELY INFLUENCED BY THIRD PARTY
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1000 ug/L

SOURCE:

FIGURE BASED ON FIGURE FROM AECOM FIGURE 9, TITLED *"EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS-SEPTEMBER 2018"*, DATED FEB. 2019.

0 300 600

SCALE: 1" = 300'

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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EXTENT OF DISSOLVED PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS SEPTEMBER 2019

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HIMW-28 S,I		
DEPTH	TOT. BTEX	TOT. PAH
20-40	ND-213 (211.51)	10-738 (272.5)
50-70	ND-213 (ND)	ND (ND)

HIMW-25		
DEPTH	TOT. BTEX	TOT. PAH
42-52	ND-1,320 (ND)	ND-573 (ND)

HIMW-13 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
38-48	ND-11 (ND)	ND (ND)
70-80	ND-313 (ND)	ND-156 (ND)
110-120	1-30 (1.1)	ND-28 (11.5)

HIMW-27 S, I		
DEPTH	TOT. BTEX	TOT. PAH
20-40	447-1,967 (1,043.9)	695-1,884 (1531.7)
50-70	ND-2 (ND)	ND-17 (ND)

HIMW-24		
DEPTH	TOT. BTEX	TOT. PAH
44.6-54.6	ND-900 (ND)	ND-1,024 (ND)

HIMW-14 I, D		
DEPTH	TOT. BTEX	TOT. PAH
85-95	0.8 -273 (0.8)	12.2 -288 (12.2)
140-150	ND-15 (0.0)	ND-6 (ND)

HIMW-15 I, D		
DEPTH	TOT. BTEX	TOT. PAH
80-90	ND-111 (ND)	ND-273 (2.0)
141.5-151.5	ND-94 (ND)	ND-1 (ND)

HIMW-12 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
22-32	ND-338.8 (ND)	ND-1,391 (ND)

HIMW-03 S,I,D		
DEPTH	TOT. BTEX	TOT. PAH
23-33	ND-36 (ND)	ND (ND)
80.5-90.5	ND-13 (ND)	ND (ND)
133-143	ND-8.2 (ND)	ND-30 (ND)

HIMW-20 S, I		
DEPTH	TOT. BTEX	TOT. PAH
25-35	ND-3 (ND)	ND-5 (ND)
63-73	ND-474 (ND)	ND-3,968 (ND)

HIMW-22		
DEPTH	TOT. BTEX	TOT. PAH
54-64	ND-83 (ND)	ND-91 (ND)

HIMW-05 S, I, D		
DEPTH	TOT. BTEX	TOT. PAH
27-37	ND-232 (ND)	ND-765 (ND)
80-90	25-439 (25.0)	891-5,337 (918.9)
130-140	ND-359 (273.3)	ND-2,698 (2,346)

HIMW-26 I, D		
DEPTH	TOT. BTEX	TOT. PAH
65-85	ND (ND)	ND-3 (ND)
115-135	14-105 (27.4)	118-2,138 (1,166.7)

HIMW-08 S,I,D		
DEPTH	TOT. BTEX	TOT. PAH
25-35	ND-8,240 (6.1)	ND-3,069 (ND)
63-73	ND-457 (ND)	ND-251 (ND)
102-112	ND-16 (ND)	ND-46 (ND)

HIMW-23		
DEPTH	TOT. BTEX	TOT. PAH
66-76	ND-43 (ND)	ND-43 (ND)

LEGEND:

- MP-1-2D — OXYGEN SYSTEM MONITORING WELL
- HMW-20S — MONITORING WELL
- PZ-03 — PIEZOMETER
- HISTORICAL GROUNDWATER PLUME (>100 µg/L)
- LIMIT OF MGP SOURCE MATERIAL TREATMENT
- NATIONAL GRID PROPERTY LINE
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. CONTAMINATION CONCENTRATIONS LIKELY INFLUENCED BY THIRD PARTY
- ESTIMATED EXTENT OF GROUNDWATER PLUME DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1000 ug/L

LOCATION ID		
DEPTH	TOT. BTEX	TOT. PAH
54-64	ND-83 (ND)	ND-91 (ND)
CONCENTRATION UNITS ARE MICROGRAMS PER LITER		
CONCENTRATION UNITS IN GREEN ARE FROM MARCH 2020		

SOURCE:

FIGURE BASED ON FIGURE FROM AECOM FIGURE 9, TITLED *"EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS-SEPTEMBER 2018"*, DATED FEB. 2019.

0 300 600

SCALE: 1" = 300'

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

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EXTENT OF DISSOLVED PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS MARCH 2020

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PZ–02
48.19
PZ–03
47.86
NATIONAL GRID
FORMER MGP SITE
48.0
47.0
46.0
45.0
44.0
47.36
OSMW–2
47.30
OSMW–3
47.52
HIMW–11S
48.15
HIMW–10S
46.27
HIMW–28S
46.94
HIMW–09S
46.22
HIMW–27S
HIMW–03S
46.59
46.76
HIMW–04S
46.90
HIMW–05S
46.51
HIMW–08S
46.04
HIMW–20S
45.34
HIMW–12S
43.44
HIMW–13S
L.I.R.R. R.O.W.
SECOND STREET
HILTON AVENUE
BARNES LANE
WENDELL STREET
SEALEY AVENUE
FRANKLIN AVENUE
OLD FRANKLIN STREET
MAIN STREET
STOWE PLACE
SAMMIS PLACE
MILLER PLACE
UNION PLACE
INTERSECTION STREET
SMITH STREET
ATLANTIC AVENUE
GARDEN PLACE
KELLUM PLACE
CATHEDRAL AVENUE
KENSINGTON COURT
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA ST
RUNDLE COURT
RYAN COURT
JACKSON STREET
CATHEDRAL COURT
HILTON PLACE
MULFORD PLACE
ST. PAUL'S
FULTON AVENUE
BELL STREET

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44.0 POTENTIOMETRIC SURFACE CONTOUR
- 43.44 GROUNDWATER ELEVATION (FT. AMSL)
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 10: POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER - MARCH 27, 2019

Project 1905774 | April 2020 | Fig. 8

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NATIONAL GRID
FORMER MGP SITE

47.52
HIMW–11I

47.13
HIMW–03I

46.28
HIMW–27I

47.82
HIMW–10I

47.0

46.73
HIMW–04I

46.80
HIMW–05I

46.25
HIMW–28I

46.93
HIMW–09I

46.0

45.93
HIMW–26I

46.41
HIMW–08I

46.34
HIMW–25

46.11
HIMW–20I

45.83
HIMW–24

NM
HIMW–12I

45.0

44.92
HIMW–23

44.69
HIMW–22

44.0

43.41
HIMW–13I

43.39
HIMW–14I

43.0

42.0

41.0

40.36
HIMW–15I

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

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 41.0 POTENTIOMETRIC SURFACE CONTOUR
- 40.36 GROUNDWATER ELEVATION (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:
FIGURE BASED ON *FIGURE 11: POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER - MARCH 27, 2019

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NATIONAL GRID
FORMER MGP SITE

L.I.R.R. R.O.W.

46.79
HIMW–03D

47.45
HIMW–11D

46.10
HIMW–04D

46.20
HIMW–05D

46.86
HIMW–09D

45.74
HIMW–26D

46.46
HIMW–08D

NM
HIMW–12D

43.32
HIMW–13D

41.13
HIMW–14D

38.52
HIMW–15D

47.0
46.0
45.0
44.0
43.0
42.0
41.0
40.0
39.0

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

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 39.0 POTENTIOMETRIC SURFACE CONTOUR
- 38.52 GROUNDWATER ELEVATION (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 12: POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER - MARCH 27, 2019

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PZ–02
48.63
PZ–03
48.27
NATIONAL GRID
FORMER MGP SITE
47.88
HIMW–11S
48.21
HIMW–10S
47.67
OSMW–2
46.67
OSMW–3
48.0
HIMW–03S
47.99
47.33
HIMW–04S
47.28
HIMW–05S
47.0
46.53
HIMW–28S
47.01
HIMW–27S
47.26
HIMW–09S
46.65
HIMW–08S
46.27
HIMW–20S
46.0
45.47
HIMW–12S
45.0
44.0
43.42
HIMW–13S
FRANKLIN AVENUE
OLD FRANKLIN STREET
MAIN STREET
STOWE PLACE
SAMMIS PLACE
MILLER PLACE
UNION PLACE
SECOND STREET
HILTON AVENUE
BARNES LANE
WENDELL STREET
SEALEY AVENUE
INTERSECTION STREET
SMITH STREET
L.I.R.R. R.O.W.
ATLANTIC AVENUE
KELLUM PLACE
GARDEN PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA ST
RUNDLE COURT
RYAN COURT
JACKSON STREET
CATHEDRAL COURT
HILTON PLACE
MULFORD PLACE
ST. PAUL'S
FULTON AVENUE
BELL STREET

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44.0 POTENTIOMETRIC SURFACE CONTOUR
- 43.42 GROUNDWATER ELEVATION (FT. AMSL)
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 10: POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER - SEPTEMBER 23, 2019

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NATIONAL GRID
FORMER MGP SITE

47.82
HIMW–11I

47.32
HIMW–03I

46.55
HIMW–27I

48.26
HIMW–10I

46.53
HIMW–28I

47.04
HIMW–04I

46.95
HIMW–05I

47.19
HIMW–09I

47.0

46.26
HIMW–26I

46.70
HIMW–08I

46.59
HIMW–25

46.28
HIMW–20I

46.02
HIMW–24

46.0

NM
HIMW–12I

45.0

45.09
HIMW–23

44.86
HIMW–22

44.0

43.50
HIMW–13I

43.23
HIMW–14I

43.0

42.0

41.0

39.86
HIMW–15I

40.0

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

0 300 600
SCALE, FEET

LEGEND:

- ⊕ MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 40.0 POTENTIOMETRIC SURFACE CONTOUR
- 39.86 GROUNDWATER ELEVATION (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 11: POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER - SEPTEMBER 23, 2019

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NATIONAL GRID
FORMER MGP SITE

L.I.R.R. R.O.W.

46.91
HIMW–03D

47.0

47.75
HIMW–11D

46.03
HIMW–04D

46.20
HIMW–05D

47.07
HIMW–09D

46.0

46.04
HIMW–26D

46.69
HIMW–08D

45.0

NM
HIMW–12D

44.0

43.33
HIMW–13D

43.0

42.0

41.0

39.79
HIMW–14D

40.0

39.0

38.0

36.96
HIMW–15D

37.0

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

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 37.0 POTENTIOMETRIC SURFACE CONTOUR
- 36.96 GROUNDWATER ELEVATION (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 12: POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER - SEPTEMBER 23, 2019

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48.26
PZ–02
48.0
PZ–03
47.95
NATIONAL GRID
FORMER MGP SITE
47.51
HIMW–11S
47.64
OSMW–2
47.91
HIMW–10S
47.32
OSMW–3
HIMW–03S
47.46
47.83
HIMW–04S
47.0
46.80
HIMW–05S
46.48
HIMW–28S
46.20
HIMW–27S
46.95
HIMW–09S
46.43
HIMW–08S
46.0
HIMW–20S
45.98
45.0
44.95
HIMW–12S
44.0
43.22
HIMW–13S
SECOND STREET
HILTON AVENUE
BARNES LANE
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CHELSEA PLACE
CATHEDRAL AVENUE
WENDELL STREET
L.I.R.R. R.O.W.
FRANKLIN AVENUE
INTERSECTION STREET
SEALEY AVENUE
SMITH STREET
OLD FRANKLIN STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
MAIN STREET
MILLER PLACE
UNION PLACE
KELLUM PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA ST
RUNDLE COURT
RYAN COURT
JACKSON STREET
CATHEDRAL COURT
HILTON PLACE
MULFORD PLACE
ST. PAUL'S
FULTON AVENUE
BELL STREET
N

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44.0 POTENTIOMETRIC SURFACE CONTOUR
- 43.22 GROUNDWATER ELEVATION (FT. AMSL)
- FORMER MGP SITE BOUNDARY

SOURCE:

FIGURE BASED ON *FIGURE 10: POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER - MARCH 12, 2020

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NATIONAL GRID
FORMER MGP SITE

47.50
HIMW–11I

47.43
HIMW–03I

46.24
HIMW–27I

47.96
HIMW–10I

46.24
HIMW–28I

47.76
HIMW–04I

46.87
HIMW–05I

46.89
HIMW–09I

47.0

46.0

HIMW–26I

45.78

46.38
HIMW–08I

46.25
HIMW–25

45.98
HIMW–20I

45.72
HIMW–24

NM
HIMW–12I

45.0

44.80
HIMW–23

44.46
HIMW–22

44.0

43.21
HIMW–13I

43.0

42.0

41.15
HIMW–14I

41.0

40.01
HIMW–15I

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

0 300 600
SCALE, FEET

LEGEND:

- MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 41.0 — POTENTIOMETRIC SURFACE CONTOUR
- 40.01 — GROUNDWATER ELEVATION (FT. AMSL)
- NM — NOT MEASURED DURING THIS SAMPLING EVENT
- FORMER MGP SITE BOUNDARY

SOURCE:
FIGURE BASED ON *FIGURE 11: POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER - MARCH 12, 2020

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NATIONAL GRID
FORMER MGP SITE

46.94
HIMW–03D

47.46
HIMW–11D

47.21
HIMW–04D

46.24
HIMW–05D

HIMW–09D
46.85

47.0

46.0

45.76
HIMW–26D

46.36
HIMW–08D

45.0

NM
HIMW–12D

44.0

43.13
HIMW–13D

43.0

HIMW–14D
42.98

42.0

41.0

40.0

39.0

38.55
HIMW–15D

0 300 600
SCALE, FEET

LEGEND:

- ⊕ MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- 39.0 POTENTIOMETRIC SURFACE CONTOUR
- 38.55 GROUNDWATER ELEVATION (FT. AMSL)
- NM NOT MEASURED DURING THIS SAMPLING EVENT
- — - - — FORMER MGP SITE BOUNDARY

SOURCE:
FIGURE BASED ON *FIGURE 12: POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER,* SEPTEMBER 17, 2018 PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER - MARCH 12, 2020

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HIMW–003S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
23–33	ND–36 (ND)	ND (ND)
80.5–90.5	ND–13 (ND)	ND (ND)
133–143	ND–8.2 (ND)	ND–30 (ND)

HIMW–008S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–8,240 (ND)	ND–3,069 (3)
63–73	ND–457 (ND)	ND–251 (ND)
102–112	ND–16 (ND)	ND–46 (ND)

HIMW–011S,I		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	603–13,920	2,813–13,076
80–90	ND–49	ND–3

HIMW–014I,D		
DEPTH	TOT. BTEX	TOT. PAHs
85–95	2–273 (29)	19–288 (42)
140–150	ND–15 (ND)	ND–6 (ND)

HIMW–022		
DEPTH	TOT. BTEX	TOT. PAHs
54–64	ND	ND

HIMW–025		
DEPTH	TOT. BTEX	TOT. PAHs
42–52	552	573

HIMW–004S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
30–40	ND–4	ND–1
80–90	ND–13	ND
167–177	ND–4	ND–1

HIMW–009S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–16	ND–8
70–80	ND–2	ND
113–123	ND–16	ND–10

HIMW–012S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
22–32	ND–338.8 (ND)	ND–1,391 (ND)
63–73	6–256 (64)	65–527 (108)
117–127	ND–6 (ND)	ND–2 (ND)

HIMW–015I,D		
DEPTH	TOT. BTEX	TOT. PAHs
80–90	1–111 (23)	ND–273 (31)
141.5–151.5	ND–94 (ND)	ND–1 (ND)

HIMW–023		
DEPTH	TOT. BTEX	TOT. PAHs
66–76	43	11

OSMW–02		
DEPTH	TOT. BTEX	TOT. PAHs
30–40	2,604	3,517

HIMW–005S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
27–37	ND–232 (ND)	ND–765 (ND)
80–90	50–439 (146)	891–5,337 (2,120)
130–140	ND–359 (133)	ND–2,698 (166)

HIMW–010S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–33	1–150
80.5–90.5	ND–13	ND
112.5–132.5	ND–16	ND

HIMW–013S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
38–48	ND–11 (ND)	ND (ND)
70–80	ND–313 (142)	ND–156 (67)
110–120	1–30 (2)	ND–28 (17)

HIMW–020S,I		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–3 (ND)	ND–5 (ND)
63–73	ND–474 (198)	ND–3,968 (530)

HIMW–024		
DEPTH	TOT. BTEX	TOT. PAHs
44.6–54.6	870	1,020

OSMW–03		
DEPTH	TOT. BTEX	TOT. PAHs
29–39	4,301	2,911

LEGEND:

- MONITORING WELL
- PIEZOMETER
- OXYGEN SYSTEM MONITORING WELL
- EXISTING HOUSE OR BUILDING
- NATIONAL GRID PROPERTY BOUNDARY
- INSTALLED GROUNDWATER TREATMENT SYSTEM
- ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 µg/L
- ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 µg/L

ANALYTICAL BOXES

NA NOT ANALYZED

ND NOT DETECTED

LOCATION ID
DEPTH (ft bgs)

HIMW–024		
DEPTH	TOT. BTEX	TOT. PAHs
44.6–54.6	870	1,020

CONCENTRATION UNITS ARE µg/L HISTORIC RANGE (MAY 2011 CONCENTRATION)

29–39	4,301	2,911

GREY INDICATES WELL NOT SAMPLED IN MAY 2011

0 300 600

SCALE: 1" = 300'

SOURCE:

FIGURE BASED ON *FIGURE 14: EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS - MAY 2011, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 300', DATE: 2/22/19.

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EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS - MAY 2011

April 2020 Fig. 17

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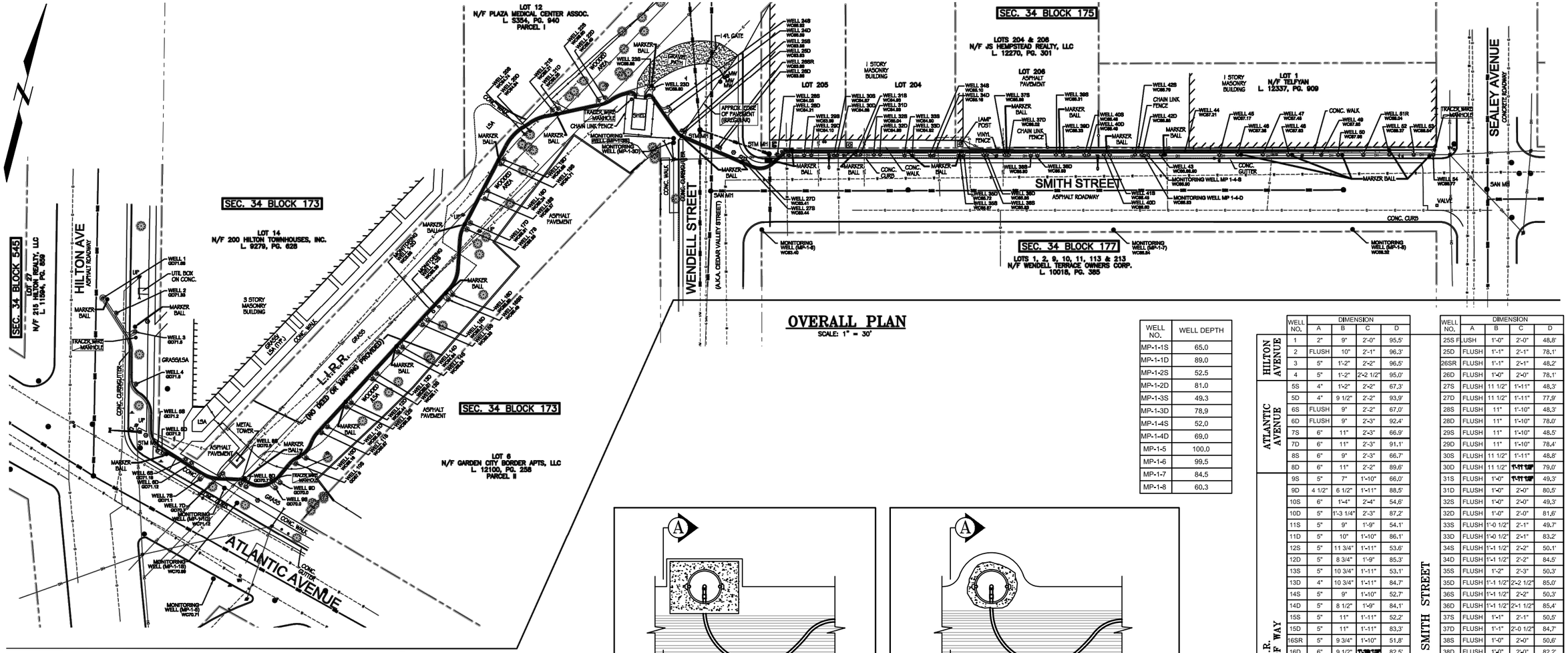


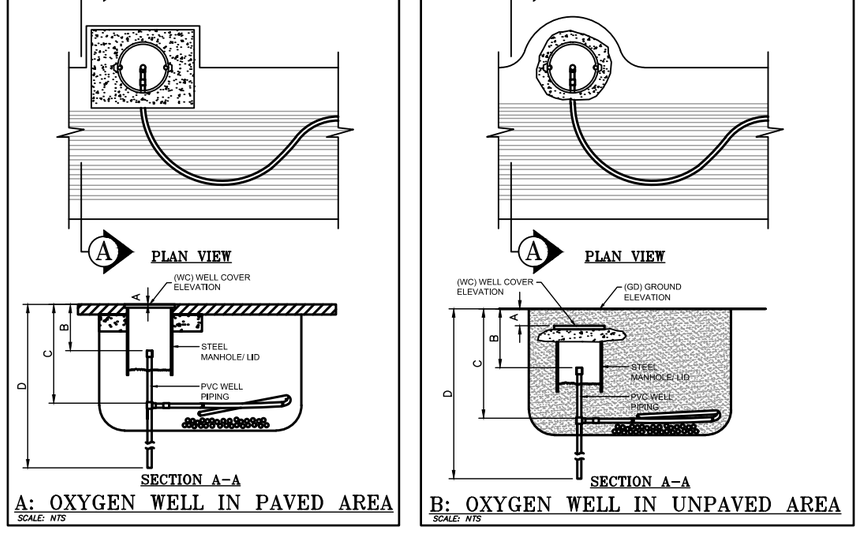
OVERALL PLAN

SCALE: 1" = 30'

WELL NO.	WELL DEPTH
MP-1-1S	65.0
MP-1-1D	89.0
MP-1-2S	52.5
MP-1-2D	81.0
MP-1-3S	49.3
MP-1-3D	78.9
MP-1-4S	52.0
MP-1-4D	69.0
MP-1-5	100.0
MP-1-6	99.5
MP-1-7	84.5
MP-1-8	60.3

	WELL NO.	DIMENSION A	B	C	D
HILTON AVENUE	1	2"	9"	2'-0"	95.5'
	2	FLUSH	10"	2'-1"	96.3'
	3	5"	1'-2"	2'-2"	96.5'
	4	5"	1'-2"	2'-2 1/2"	95.0'
ATLANTIC AVENUE	5S	4"	1'-2"	2'-2"	67.3'
	5D	4"	9 1/2"	2'-2"	93.9'
	6S	FLUSH	9"	2'-2"	67.0'
	6D	FLUSH	9"	2'-3"	92.4'
	7S	6"	11"	2'-3"	66.9'
	7D	6"	11"	2'-3"	91.1'
	8S	6"	9"	2'-3"	66.7'
	8D	6"	11"	2'-2"	89.6'
L.I.R.R. RIGHT OF WAY	9S	5"	7"	1'-10"	66.0'
	9D	4 1/2"	6 1/2"	1'-11"	88.5'
	10S	6"	1'-4"	2'-4"	54.6'
	10D	5"	1'-3 1/4"	2'-3"	87.2'
	11S	5"	9"	1'-9"	54.1'
	11D	5"	10"	1'-10"	86.1'
	12S	5"	11 3/4"	1'-11"	53.6'
	12D	5"	8 3/4"	1'-9"	85.3'
	13S	5"	10 3/4"	1'-11"	53.1'
	13D	4"	10 3/4"	1'-11"	84.7'
	14S	5"	9"	1'-10"	52.7'
	14D	5"	8 1/2"	1'-9"	84.1'
	15S	5"	11"	1'-11"	52.2'
	15D	5"	11"	1'-11"	83.3'
	16SR	5"	9 3/4"	1'-10"	51.8'
	16D	6"	9 1/2"	1'-10 1/2"	82.5'
	17S	6"	11 1/4"	2'-0"	50.7'
	17D	5"	6 3/4"	1'-7"	79.5'
	18S	5"	7 1/2"	1'-9"	50.2'
	18D	5"	7 5/8"	1'-8"	78.3'
	19S	6"	12 1/4"	2'-1"	49.7'
	19D	6"	12 3/8"	2'-1"	78.9'
	20S	6"	9 5/8"	1'-9"	49.3'
	20D	6"	11 3/8"	1'-11 1/2"	79.5'
	21S	5 1/2"	11 1/2"	1'-11"	49.3'
	21D	6"	10"	1'-11 1/2"	79.5'
	22S	5"	9 1/4"	1'-10 1/2"	49.3'
	22D	5"	9 1/4"	1'-10"	79.5'
	23S	5"	12 1/4"	2'-0 1/2"	48.8'
	23D	6"	11 3/4"	1'-11 1/2"	78.7'
	24S	6"	12 5/8"	2'-0"	48.4'
	24D	6"	9"	1'-8 1/2"	78.2'

	WELL NO.	DIMENSION A	B	C	D
SMITH STREET	25S	FLUSH	1'-0"	2'-0"	48.8'
	25D	FLUSH	1'-1"	2'-1"	78.1'
	26SR	FLUSH	1'-1"	2'-1"	48.2'
	26D	FLUSH	1'-0"	2'-0"	78.1'
	27S	FLUSH	11 1/2"	1'-11"	48.3'
	27D	FLUSH	11 1/2"	1'-11"	77.9'
	28S	FLUSH	11"	1'-10"	48.3'
	28D	FLUSH	11"	1'-10"	78.0'
	29S	FLUSH	11"	1'-10"	48.5'
	29D	FLUSH	11"	1'-10"	78.4'
	30S	FLUSH	11 1/2"	1'-11"	48.8'
	30D	FLUSH	11 1/2"	1'-11 1/2"	79.0'
	31S	FLUSH	1'-0"	1'-11 1/2"	49.3'
	31D	FLUSH	1'-0"	2'-0"	80.5'
	32S	FLUSH	1'-0"	2'-0"	49.3'
	32D	FLUSH	1'-0"	2'-0"	81.6'
	33S	FLUSH	1'-0 1/2"	2'-1"	49.7'
	33D	FLUSH	1'-0 1/2"	2'-1"	83.2'
	34S	FLUSH	1'-1 1/2"	2'-2"	50.1'
	34D	FLUSH	1'-1 1/2"	2'-2"	84.5'
	35S	FLUSH	1'-2"	2'-3"	50.3'
	35D	FLUSH	1'-1 1/2"	2'-2 1/2"	85.0'
	36S	FLUSH	1'-1 1/2"	2'-2"	50.3'
	36D	FLUSH	1'-1 1/2"	2'-1 1/2"	85.4'
	37S	FLUSH	1'-1"	2'-1"	50.5'
	37D	FLUSH	1'-1"	2'-0 1/2"	84.7'
	38S	FLUSH	1'-0"	2'-0"	50.6'
	38D	FLUSH	1'-0"	2'-0"	82.2'
	39S	FLUSH	11"	1'-11"	50.7'
	39D	FLUSH	11 1/2"	1'-11"	78.5'
	40S	FLUSH	11 1/2"	1'-11"	51.1'
	40D	FLUSH	11"	1'-10 1/2"	76.1'
	41S	FLUSH	1'-0"	2'-0"	51.5'
	41D	FLUSH	1'-1"	2'-1"	73.6'
	42S	FLUSH	1'-2"	2'-1"	51.3'
	42D	FLUSH	1'-2"	2'-2 1/2"	71.0'
	43	FLUSH	1'-2"	2'-3"	67.4'
	44	FLUSH	1'-2"	2'-2 1/2"	66.6'
	45	FLUSH	1'-3"	2'-3"	65.7'
	46	FLUSH	1'-3"	2'-3"	64.3'
	47	FLUSH	1'-3"	2'-3 1/2"	63.4'
	48	FLUSH	1'-3"	2'-3 1/2"	62.5'
	49	FLUSH	1'-3"	2'-3"	61.5'
	50	FLUSH	1'-3"	2'-3"	60.8'
	51R	FLUSH	1'-3"	2'-3"	60.4'
	52	FLUSH	1'-4"	2'-4"	59.3'
	53	FLUSH	1'-4"	2'-4"	60.2'
	54	FLUSH	1'-4"	2'-4"	60.2'



A: OXYGEN WELL IN PAVED AREA

SCALE: NTS

B: OXYGEN WELL IN UNPAVED AREA

SCALE: NTS

MAP LEGEND

	PROPERTY LINE		MANHOLE
	APPROX. LOC. U.G. WATER LINE		INLET
	APPROX. LOC. U.G. TELEPHONE LINE		SEWER CLEANOUT
	APPROX. LOC. U.G. GAS LINE		UTILITY POLE
	APPROX. LOC. U.G. ELECTRIC LINE		UTILITY POLE/LIGHT POLE
	APPROX. LOC. U.G. TELEVISION LINE		GUY ANCHOR
	APPROX. LOC. U.G. UNIDENTIFIED UTILITY LINE		TREE STUMP
	APPROX. LOC. U.G. SAN. SEWER LINE		TREE
	APPROX. LOC. U.G. STM. SEWER LINE		BUILDING FOOTPRINT (NOT FIELD VERIFIED)
	HYDRANT		
	WATER VALVE		OXYGEN WELL MANHOLE
	3/4" TUBING		MARKER BALL
WC12.34 GD12.3	DENOTES ELEVATION AT WELL COVER (WC), TOP OF PIPE (TP) OR GROUND (GD)		TRACER WIRE MANHOLE
			MONITORING WELL
		LSA	LANDSCAPED AREA

0 60 120

SCALE: 1" = 60'

SOURCE:

FIGURE BASED ON *FIGURE 15: SYSTEM #1 OXYGEN WELL LOCATION - SITE PLAN, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 60', DATE: 2/22/19.

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SYSTEM #1 OXYGEN WELL LOCATION SITE PLAN

Project 1905774 | April 2020 | Fig. 18

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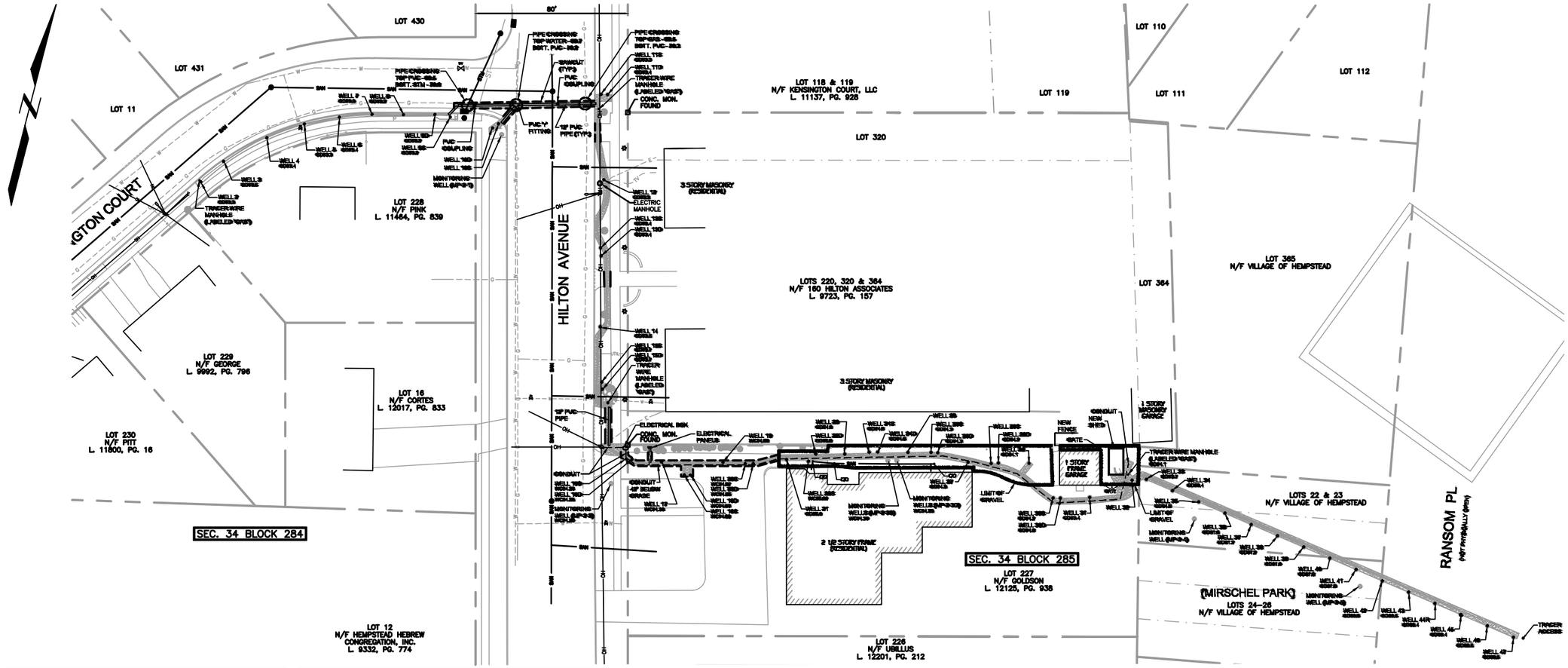


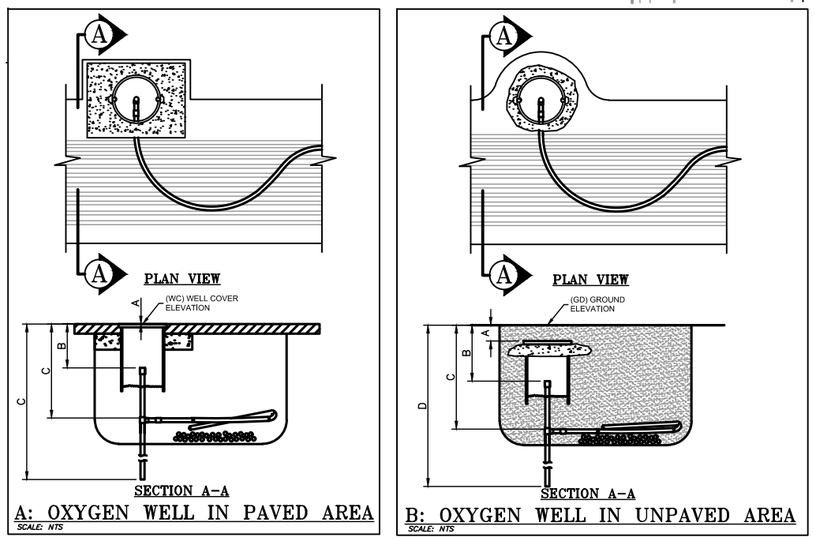
OVERALL PLAN

SCALE: 1" = 60'

WELL NO.	WELL DEPTH
MP-2-1	97'
MP-2-2	94'
MP-2-3D	97'
MP-2-3S	73.5'
MP-2-4	70.2'
MP-2-5	61.7'

		WELL NO.	DIMENSION A	B	C	D
KENSINGTON COURT	RESIDENTIAL PROPERTY	2	2-1/2"	11"	2'-1"	90.2'
		3	2-1/2"	10"	1'-11"	94.3'
		4	3"	1'-2"	1'-11"	94.7'
		5	3-1/2"	9"	1'-10"	95.3'
		6	2-1/2"	9-1/2"	1'-9"	95.7'
		7	3-1/2"	10"	1'-11"	96'
		8	3-1/2"	9-1/2"	1'-11"	96.3'
		9D	4-1/2"	8-1/2"	1'-11"	96.7'
		9S	3-1/2"	11"	1'-9 1/2"	75'
		10S	2"	9"	2'-0"	75'
		10D	2"	9-1/2"	2'-0"	97.2'
HILTON AVE.		11S	6"	9"	2'-0"	76.5'
		11D	4"	9"	2'-0"	100.8'
		12	4-3/4"	1'-0"	2'-4"	94'
		13S	5-1/2"	1'-2"	2'-3 1/2"	75'
		13D	6"	1'-1"	2'-6"	97'
		14	5-1/2"	11"	2'-2"	96.4'
		15S	4"	1'-2"	2'-7 1/2"	75'
		15D	6-1/2"	1'-0"	2'-7"	94.6'
		16S	FLUSH	9-1/2"	2'-3"	75.5'
		16D	FLUSH	1'-0"	2'-6"	94.1'
		17	FLUSH	8 1/2"	2'-1/2"	95'
		18S	FLUSH	7"	1'-8 1/2"	74.5'
		18D	FLUSH	9"	1'-9"	95.5'
		19	FLUSH	9-1/2"	1'-9 1/2"	96.1'
		20S	FLUSH	11"	2'-1/2"	74'
		20D	FLUSH	11"	1'-11 1/2"	96.6'
		21	3"	1'-1"	1'-8"	96.6'
		22S	5"	1'-1 1/2"	2'-0"	76'
		22D	4"	1'-4"	2'-4"	96.3'
		23	2"	1'-1"	2'-2"	97.2'
		24S	2-1/2"	1'-1/2"	1'-10"	77.8'
		24D	3-1/4'	1'-2"	1'-11"	97'
		25	3"	1'-1"	1'-9"	96'
		26S	3"	1'-0"	2'-2"	74'
		26D	3"	1'-1"	2'-0"	95'
		27	2"	1'-0"	1'-11"	93.5'
		28S	2-1/2"	11"	1'-11"	76'
		28D	4"	1'-1/2"	2'-0"	92.1'
		29	4-1/2"	11"	1'-11"	92.2'
		30S	3"	10"	2'-2"	67.8'
		30D	2-1/2"	1'-1/2"	2'-3"	88'
		31	4"	1'-4"	2'-2"	86'
		32	4"	6"	1'-11"	84'
PARK AREA		*33	8"	1'-0"	2'-0"	82'
		*34	8"	1'-0"	2'-0"	71'
		*35	6"	1'-0"	2'-0"	69.2'
		36	5-1/2"	11"	1'-11"	64.8'
		37	2-3/4"	1'-1/2"	1'-11"	62.8'
		38	3-3/4"	1'-1 3/4"	2'-0"	62.1'
		39	4"	1'-3/4"	2'-0"	60'
		40	3-3/4"	11-1/2"	1'-11"	61.7'
		41	4-3/4"	1'-0"	1'-11"	61.7'
		42	3-1/2"	1'-1/2"	1'-11"	61.6'
		43	3-1/2"	1'-0"	2'-0"	61.4'
		44R	4-1/2"	11"	1'-11"	60.6'
		45	4-1/4"	11-3/8"	1'-11"	61.1'
		46	1-1/2"	11"	1'-10"	61'
		47	2-1/2"	7-3/4"	1'-10"	60.5'

* LOCATED ON SLOPE



A: OXYGEN WELL IN PAVED AREA

SCALE: NTS

B: OXYGEN WELL IN UNPAVED AREA

SCALE: NTS

MAP LEGEND

- PROPERTY LINE
- APPROX. LOC. U.G. WATER LINE
- APPROX. LOC. U.G. GAS LINE
- APPROX. LOC. U.G. ELECTRIC LINE
- APPROX. LOC. U.G. TELEVISION LINE
- APPROX. LOC. U.G. UNIDENTIFIED UTILITY LINE
- APPROX. LOC. U.G. SAN. SEWER LINE
- APPROX. LOC. U.G. STM. SEWER LINE
- HYDRANT
- WATER VALVE
- MANHOLE
- INLET
- SEWER CLEANOUT
- UTILITY POLE
- UTILITY POLE/LIGHT POLE
- GUY ANCHOR
- TREE STUMP
- TREE WITH DIAMETER
- BUILDING FOOTPRINT (NOT FIELD VERIFIED)

PROPOSED LEGEND

- APPROX. LOC. OF TRENCH
- LOCATION OF U.G. CONDUIT
- LIMIT OF GRAVEL
- SAWCUT LINE
- OXYGEN WELL MANHOLE
- MONITORING WELL
- TRACER WIRE MANHOLE
- 3/4" TUBING
- WC12,34 TP12,34 GD12,3 — DENOTES ELEVATION AT WELL COVER (WC), TOP OF PIPE (TP) OR GROUND (GD)

NOTES:

1. GROUND & WELL COVER ELEVATIONS OBTAINED BY GALLAS SURVEYING GROUP. ELEVATION DATUM IS BASED UPON DESIGN CAD FILES PROVIDED BY CLIENT.
2. LOCATION OF BURIED WELLS AND DIMENSIONS B & C ON WELLS AND PIPE CROSSING DEPTHS WERE OBTAINED BY HIGH POINT ENGINEERING DURING CONSTRUCTION.
3. WELL DEPTHS (DIMENSION 'D') WERE PROVIDED BY FENELY & NICOL ENVIRONMENTAL, INC., 445 BROOK AVENUE, DEER PARK, NY, 11729

0 60 120

SCALE: 1" = 60'

SOURCE:

FIGURE BASED ON *FIGURE 16: SYSTEM #2 OXYGEN WELL LOCATION - SITE PLAN, HEMPSTEAD INTERSECTION STREET FORMER MGP SITE,* PREPARED BY AECOM, SCALE: 1" = 60', DATE: 2/5/19.

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SYSTEM #2 OXYGEN WELL LOCATION SITE PLAN

April 2020 Fig. 19

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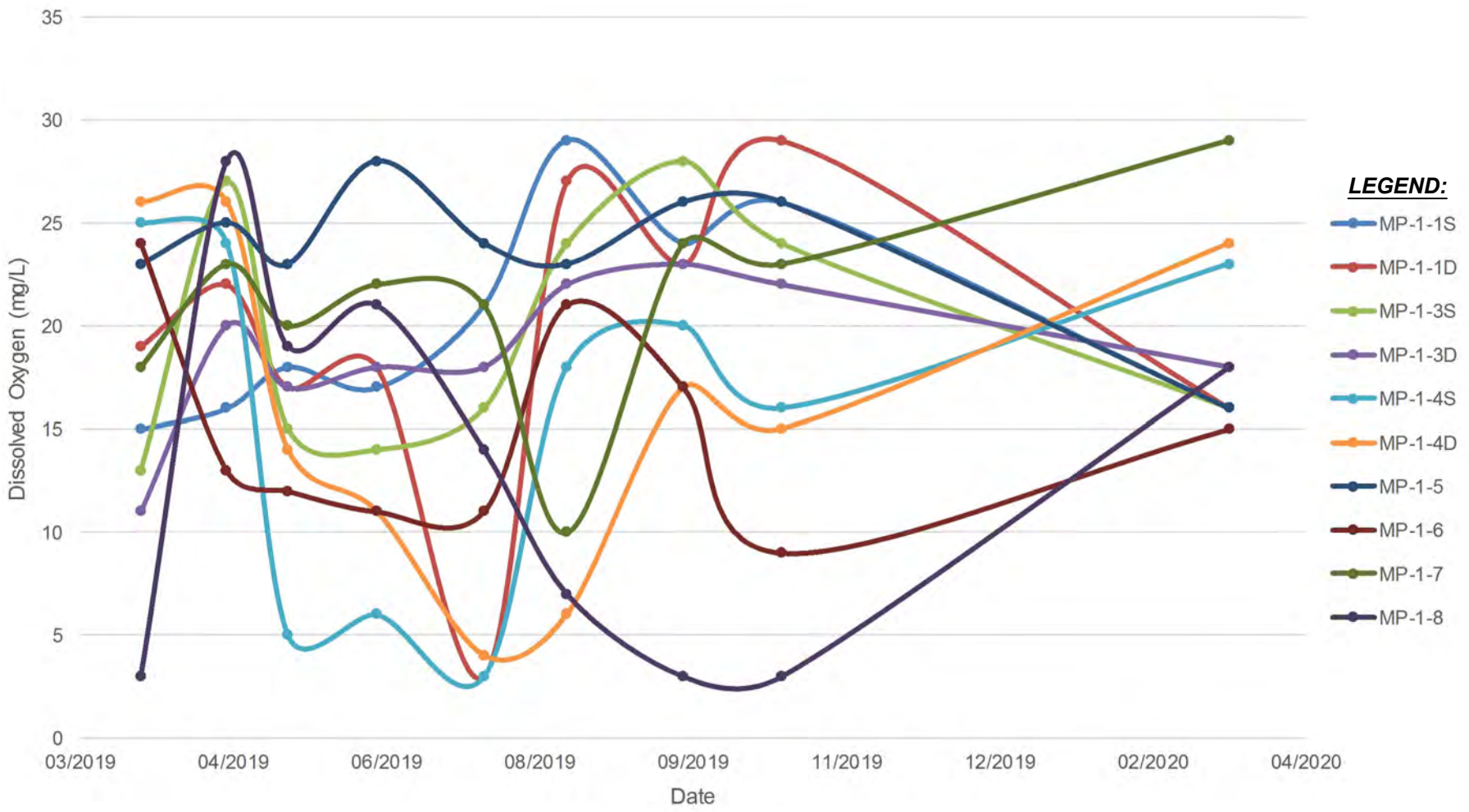

NOTE:

IN JUNE 2017, THE COMPRESSOR ON OXYGEN SYSTEM #1 FAILED; REPLACEMENT COMPRESSOR WAS NOT INSTALLED UNTIL JANUARY 2018.

SOURCE:

FIGURE BASED ON *FIGURE 17: OXYGEN SYSTEM #1, DISSOLVED OXYGEN CONCENTRATIONS,* PREPARED BY AECOM.

Periodic Review Report Hempstead Intersection Street Former MGP Hempstead/Garden City, New York	GEI Consultants	OXYGEN SYSTEM #1 DISSOLVED OXYGEN CONCENTRATIONS
nationalgrid	Project 1905774	April 2020 Fig. 20

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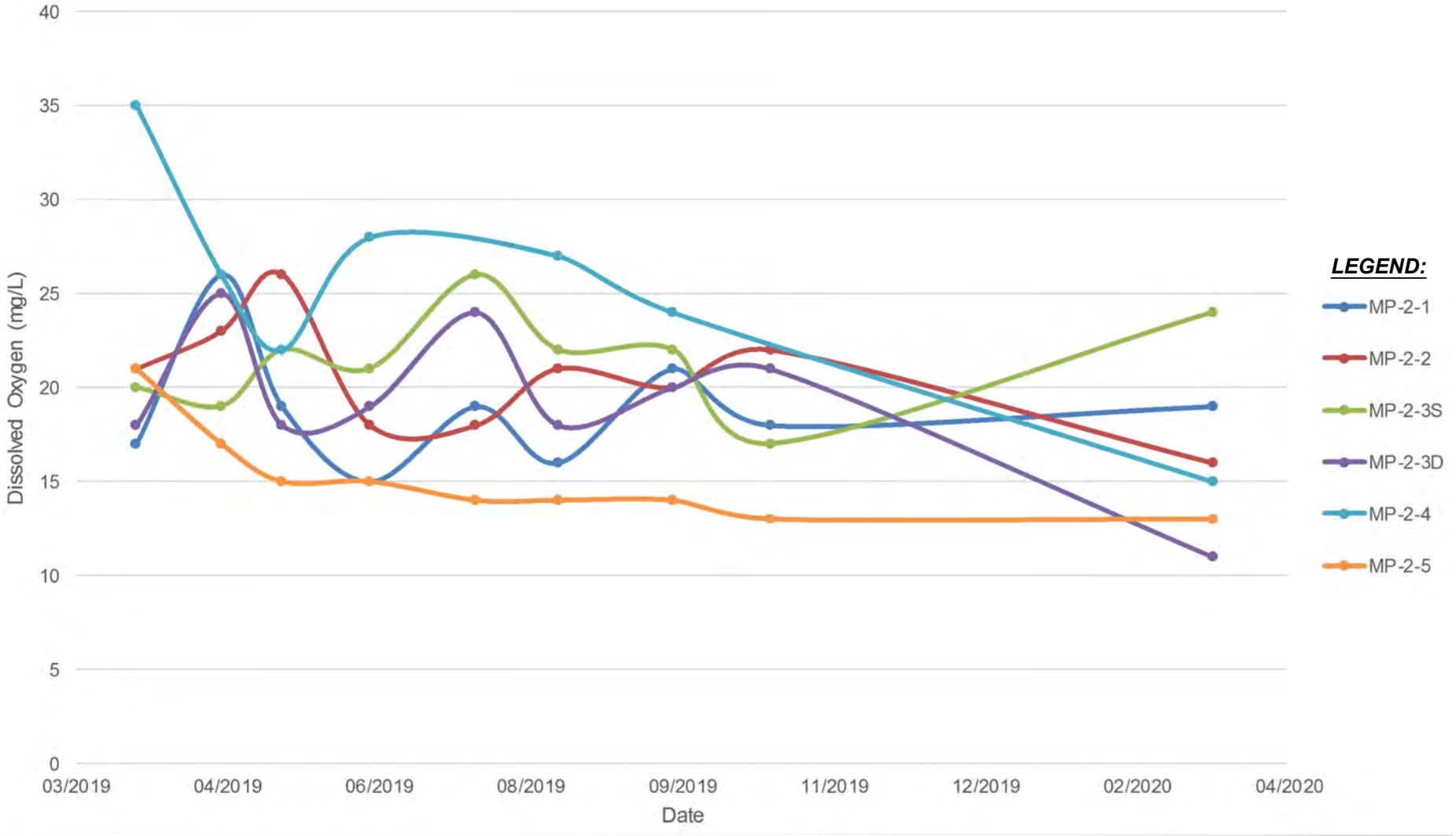

SOURCE:
FIGURE BASED ON *FIGURE 18: OXYGEN SYSTEM #2, DISSOLVED OXYGEN CONCENTRATIONS,* PREPARED BY AECOM.

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OXYGEN SYSTEM #2
DISSOLVED OXYGEN
CONCENTRATIONS

Project 1905774 | April 2020 | Fig. 21

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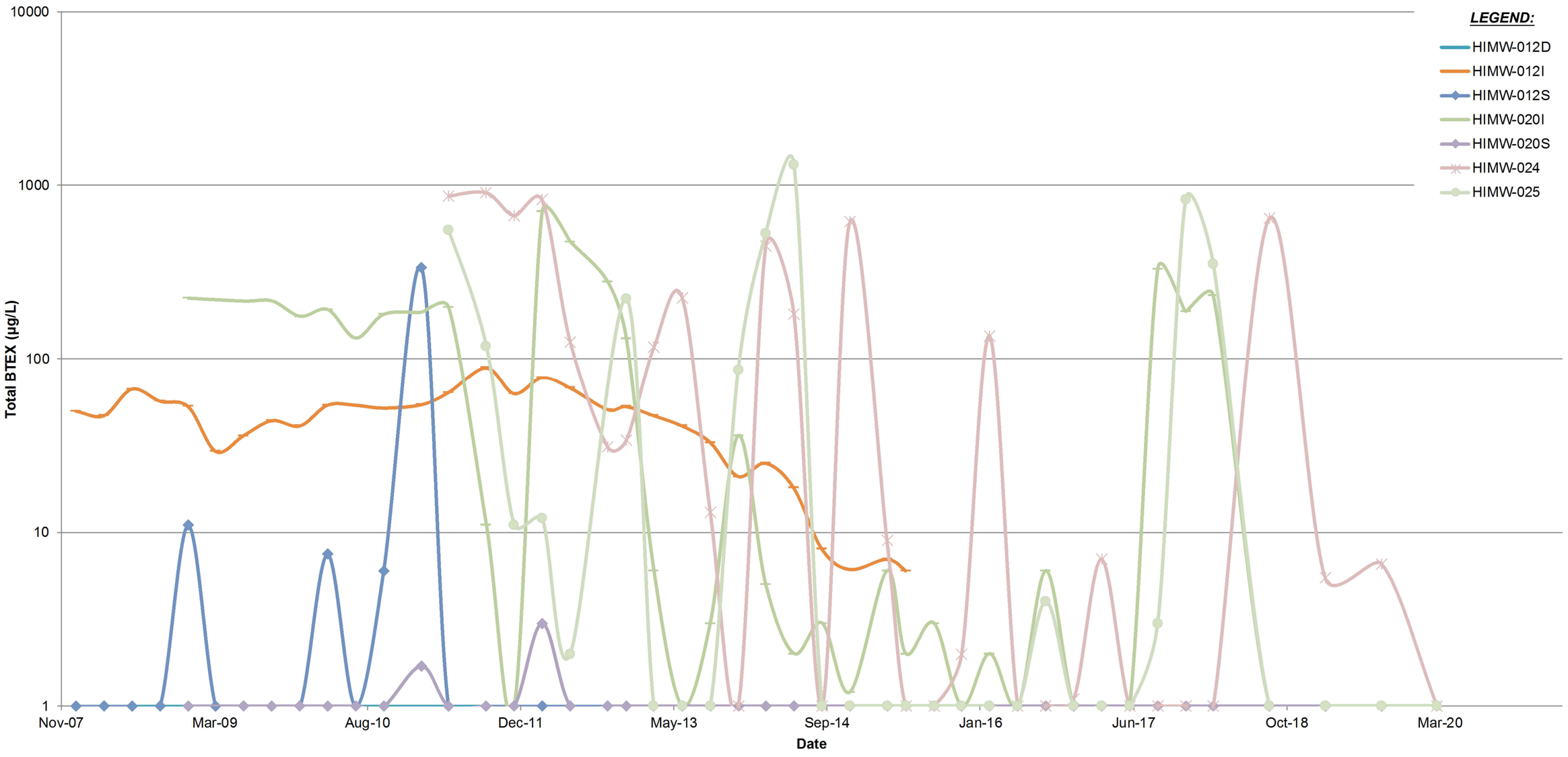

NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 19A: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2*, PREPARED BY AECOM.

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TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2

Project 1905774 | April 2020 | Fig. 22A

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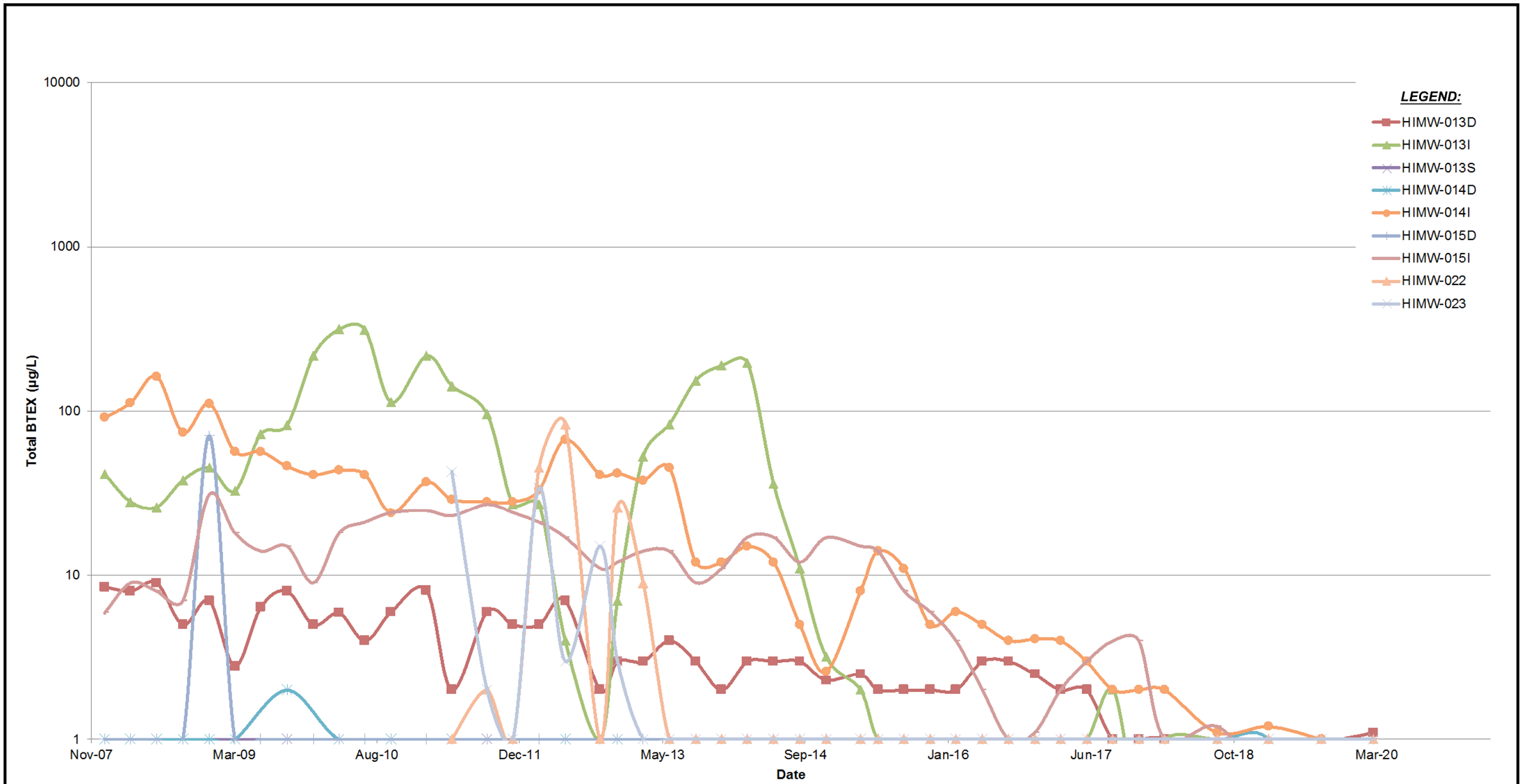

SOURCE:

FIGURE BASED ON *FIGURE 19B: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND 2,* PREPARED BY AECOM.

Periodic Review Report Hempstead Intersection Street Former MGP Hempstead/Garden City, New York nationalgrid	GEI Consultants Project 1905774	TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEMS #1 AND 2 April 2020 Fig. 22B

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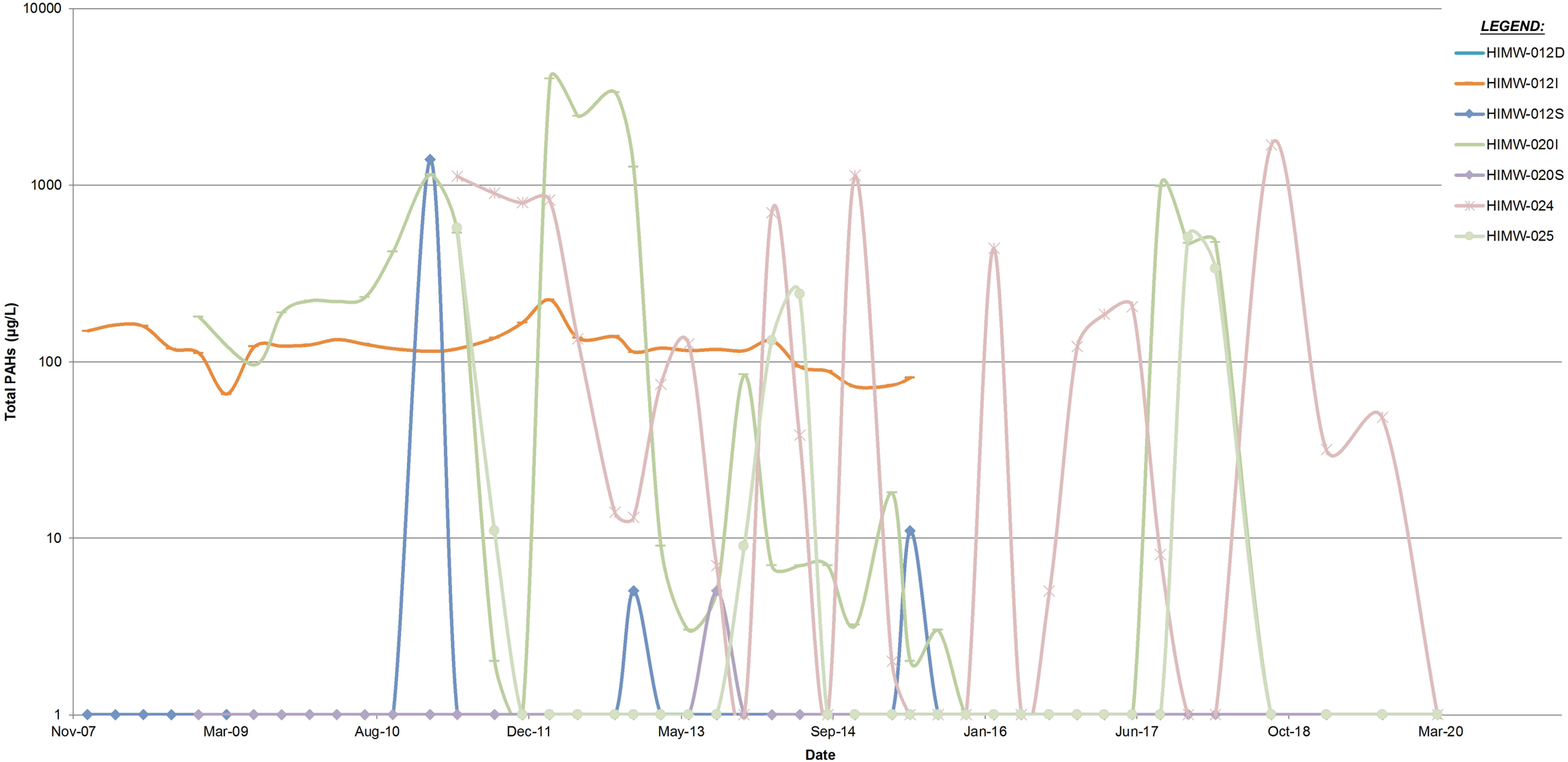

NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 20A: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2,* PREPARED BY AECOM.

Periodic Review Report Hempstead Intersection Street Former MGP Hempstead/Garden City, New York nationalgrid	GEI Consultants Project 1905774	TOTAL PAH CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEMS #1 AND UPGRADIENT FROM OXYGEN SYSTEM #2 April 2020 Fig. 23A

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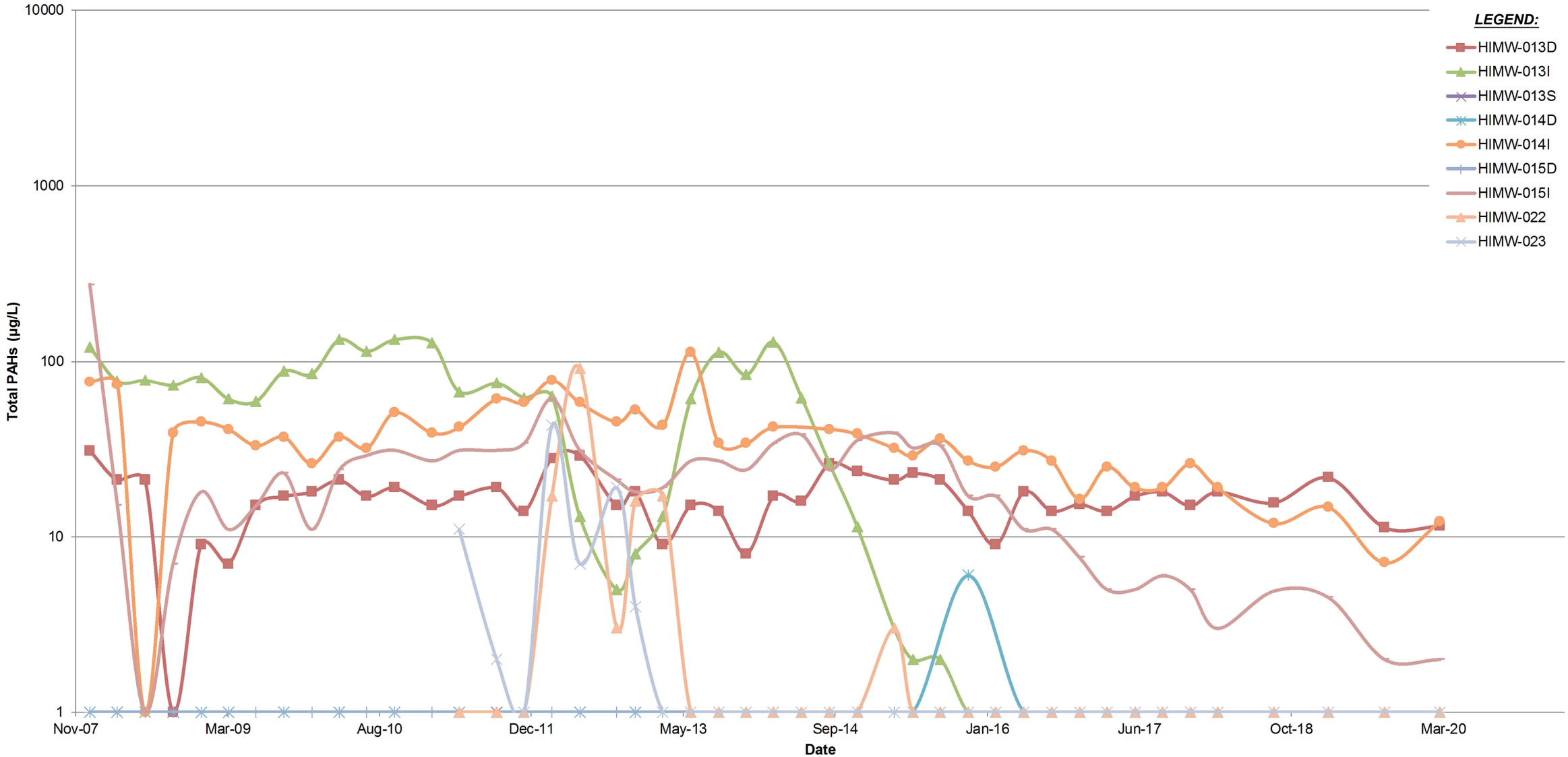

NOTE:
SYSTEM #1 AND 2 BECAME OPERATIONAL IN APRIL 2011 AND OCTOBER 2010, RESPECTIVELY.

SOURCE:
FIGURE BASED ON *FIGURE 20B: TOTAL BTEX CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEM #1 AND 2*, PREPARED BY AECOM.

Periodic Review Report
Hempstead Intersection Street Former MGP
Hempstead/Garden City, New York

nationalgrid

GEI Consultants

TOTAL PAH CONCENTRATIONS IN WELLS DOWNGRADIENT FROM OXYGEN SYSTEMS #1 AND 2

Project 1905774 | April 2020 | Fig. 23B

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Appendix A

NYSDEC Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 11th Floor, Albany, NY 12233-7014
P: (518) 402-9662 I F: (518) 402-9679
www.dec.ny.gov

June 1, 2018

William J. Ryan
Manager-DNY MGP Program
Site Investigation and Remediation Department
National Grid
175 East Old Country Road
Hicksville, NY 11801

Re: Hempstead Intersection St. Former MGP Site, Hempstead, Nassau Co.
Site 130086
2017 Annual Report

Dear Mr. Ryan:

Thank you and Jon Sundquist for AECOM's May 3, 2018, "2017 Annual Groundwater Sampling, NAPL Monitoring/Recovery and Groundwater Treatment Performance Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site". The Report is approved.

National Grid's request to reduce the frequency of groundwater sampling and analysis to semi-annually is approved. In lieu of an annual report, the Department of Environmental Conservation requests that the 2017 sampling results be presented in the Periodic Review Report. The due date for the Periodic Review Report has been extended to March 1, 2019 in order to accommodate the September sampling round.

If you have any questions please contact me at (518) 402-9686.

Sincerely,

John Spellman

John Spellman, P.E.
Project Manager
Division of Environmental Remediation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 11th Floor, Albany, NY 12233-7014
P: (518) 402-9662 I F: (518) 402-9679
www.dec.ny.gov

October 24, 2019

Jonathan Mitchell
Project Engineer
National Grid
175 East Old Country Road
Hicksville, NY 11801

Re: Hempstead Intersection St. Former MGP Site, Hempstead, Nassau Co.
Site 130086
Dissolved Oxygen Sampling

Dear Mr. Mitchell:

The New York State Department of Environmental Conservation is in receipt of your October 18, 2019 request to reduce the sampling frequency for dissolved oxygen from monthly to quarterly at the subject site. National Grid's request is approved.

Sincerely,

John Spellman, P.E.
Project Manager
Division of Environmental Remediation

Appendix B

Inspection Form

HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NY
SITE-WIDE INSPECTION FORM

GENERAL INFORMATION

Date:	March 18, 2020	**Inspector:**	Mike Quinlan
Weather:	Partly cloudy	**Signature:**	
Temperature:	50 degrees	**Company:**	GEI Consultants
Season (circle one):	(Winter) Spring Summer Fall		

SITE INSPECTION LOG SHEET*

Evidence of Change in Site Use	(Yes) No	**Description of New/Additional Site Use**	Site is used as a laydown area for gas main construction, no intrusive work observed. Also additional area is used by dealership to park cars.
Evidence of Site-Wide Disturbance(s)	Yes (No)	**Description of Disturbance(s)**	
Evidence of Site-Wide Excavation	Yes (No)	**Description of Excavation**	
Evidence of Cover System Disturbance(s)	Yes (No)	**Description of Disturbance(s)**	
Evidence of Cover System Excavation to Monolith	Yes (No)	**Description of Excavation**	
Evidence of Building Construction	Yes (No)	**Description of Building Construction**	
Comments:	Change in Site use was the same as previous PRR period. No map attached.		

* If answering Yes, attach map showing locations and any other information as required.

Appendix C

Data Usability Summary Reports

Site: Downstate OM&M Hempstead Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report Nos.: 460-177544 and 460-177579
Reviewer: Lorie MacKinnon/GEI Consultants
Date: April 12, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB031819	460-177544-01	BTEX
FB031819	460-177544-02	BTEX, PAH
HIMW-28I	460-177544-03	BTEX, PAH
HIMW-28S	460-177544-04	BTEX, PAH
HIMW-25	460-177544-05	BTEX, PAH
HIMW-24	460-177544-06	BTEX, PAH
HIMW-27S	460-177544-07	BTEX, PAH
HIMW-27I	460-177544-08	BTEX, PAH
HIMW-08S	460-177544-09	BTEX, PAH
HIMW-08I	460-177544-10	BTEX, PAH
HIMW-08D	460-177544-11	BTEX, PAH
DUP-01 Q1	460-177544-12	BTEX, PAH
TB031919	460-177579-01	BTEX
HIMW-12S	460-177579-02	BTEX, PAH
HIMW-15S	460-177579-03	BTEX, PAH
HIMW-15I	460-177579-04	BTEX, PAH
HIMW-14I	460-177579-05	BTEX, PAH
HIMW-14D	460-177579-06	BTEX, PAH
HIMW-13S	460-177579-07	BTEX, PAH
HIMW-13I	460-177579-08	BTEX, PAH
HIMW-13D	460-177579-09	BTEX, PAH
HIMW-23	460-177579-10	BTEX, PAH
HIMW-22	460-177579-11	BTEX, PAH
Associated QC Samples:	Field/Trip Blanks:	FB031819, TB031819, TB031919
	Field Duplicate pair:	HIMW-27I/DUP-01 Q1

The above-listed groundwater samples, field blank, and trip blank samples were collected on March 18 and 19, 2019 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile*

Data Validation (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data packages were complete as received by the laboratory.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

VOCs

All criteria were met.

SVOCs

Compounds that did not meet criteria in the calibrations are summarized in the following table.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
CBNAMS17 CCAL 03/22/18 06:45	Benzo(b)fluoranthene	22.3 %D	Estimate (UJ) the nondetect results for benzo(b)fluoranthene in the associated samples.
Associated samples: HIMW-28S, HIMW-27S, HIMW-08S			
CBNAMS18 CCAL 03/21/19 19:51	Indeno(123-cd)pyrene	23.2 %D	Estimate (UJ) the nondetect results for indeno(123-cd)pyrene and benzo(ghi)perylene in the associated samples.
	Benzo(ghi)perylene	24.0 %D	
Associated samples: HIMW-12S, HIMW-15S, HIMW-15I, HIMW-14I, HIMW-14D, HIMW-13S, HIMW-13I, HIMW-13D, HIMW-23, HIMW-22			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20% for VOC and SVOC; estimate (J) positive and blank-qualified (UJ) results only.
Continuing calibration (CCAL) percent difference (%D) > 20% for VOC and SVOC; estimate (J/UJ) positive and nondetect results.
RF = Response factor (RF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Blanks

SVOCs

Contamination was not detected in the laboratory method and field blank samples.

VOCs

Contamination was not detected in the associated method and trip blank samples. Total xylene was detected in the associated field blank sample. The following table summarizes the contamination and validation actions taken.

Analyte	Blank ID/ Associated Samples	Maximum Concentration	10X Action Level	Validation Actions
Total Xylenes	FB031819: All samples	0.61 J ug/L	6.1 ug/L	Qualify the result for total xylene as nondetect (U) at the RL in samples HIMW-27I and DUP-01 Q1. Qualify the result for total xylene as estimated (J) in sample HIMW-24; High bias.

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and <blank contamination detected; report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate Recoveries

VOC

All criteria were met.

SVOC

The following table lists the surrogates recovered outside of control limits and the resulting actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation actions/Bias
FB031819	Nitrobenzene-d5	113	51-108	Validation action was not required as one SVOC was outside of control limits, as is allowable per method.
HIMW-28I		113		
HIMW-25		118		
HIMW-24		119		
HIMW-13S	2-Fluorobiphenyl	110	45-107	
HIMW-27I	Nitrobenzene-d5	121	51-108	Validation actions were not required as the results for sample HIMW-27I were nondetect and therefore not affected by the potential high bias.
	2-Fluorobiphenyl	108	45-107	
HIMW-08I	Nitrobenzene-d5	115	51-108	Validation actions were not required as the results for sample HIMW-08I were nondetect and therefore not affected by the potential high bias.
	2-Fluorobiphenyl	108	45-107	

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-27S for VOCs and SVOCs. All recovery and precision criteria were met for sample compound levels less than four times the MS spike levels.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HIMW-27I and DUP-01 Q1 were submitted as the field duplicate pair with this sample group. The following table summarizes the relative percent differences (RPD) of the detected analyte in the field duplicate pair, which was within the acceptance criteria.

Analyte	HIMW-27I (ug/L)	DUP-01 Q1 (ug/L)	RPD (%)
Ethylbenzene	0.55 J	0.44 J	22.2
NC-Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <30%. When results are < 5x the RL, the absolute difference between the original and field duplicate results must be < RL			

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilution analyses which were performed.

Sample	VOC Analysis Reported	SVOC Analysis Reported
HIMW-27S	A ten-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.	A two-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-08S	NR	A two-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
NR – Dilution/reanalysis was not required/performed.		

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted. Compound identification criteria were met.

Site: Downstate OM&M Hempstead Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report Nos.: 460-177767 and 460-178131
Reviewer: Lorie MacKinnon/GEI Consultants
Date: April 12, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB032019	460-177767-01	BTEX
HIMW-03S	460-177767-02	BTEX, PAH
HIMW-03I	460-177767-03	BTEX, PAH
HIMW-03D	460-177767-04	BTEX, PAH
FB032019	460-177767-05	BTEX, PAH
DUP-02	460-177767-06	BTEX, PAH
HIMW-20S	460-177767-07	BTEX, PAH
HIMW-20I	460-177767-08	BTEX, PAH
TB032519	460-178131-01	BTEX
HIMW-26I	460-178131-02	BTEX, PAH
HIMW-26D	460-178131-03	BTEX, PAH
HIMW-05D	460-178131-04	BTEX, PAH
HIMW-05S	460-178131-05	BTEX, PAH
HIMW-05I	460-178131-06	BTEX, PAH
Associated QC Samples:	Field/Trip Blanks:	FB032019, TB032019, TB032519
	Field Duplicate pair:	HIMW-03I/DUP-02

The above-listed groundwater samples, field blank, and trip blank samples were collected on March 20 and 25, 2019 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes

- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data packages were complete as received by the laboratory.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

VOCs

All criteria were met.

SVOCs

Compounds that did not meet criteria in the calibrations are summarized in the following table.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
CBNAMS14 CCAL 03/23/18 17:35	Pyrene	28.1 %D	Estimate (UJ) the nondetect results for pyrene in the associated samples.
Associated samples: HIMW-03S, HIMW-03I, HIMW-03D, FB032019, DUP-02, HIMW-20S, HIMW-20I			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20% for VOC and SVOC; estimate (J) positive and blank-qualified (UJ) results only.
Continuing calibration (CCAL) percent difference (%D) > 20% for VOC and SVOC; estimate (J/UJ) positive and nondetect results.
RF = Response factor (RF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Blanks

Contamination was not detected in the laboratory method, field blank, and trip blank samples.

Surrogate Recoveries

VOC

All criteria were met.

SVOC

The following table lists the surrogates recovered outside of control limits and the resulting actions.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation actions/Bias
HIMW-03D	Nitrobenzene-d5	111	51-108	Validation action was not required as one SVOC was outside of control limits, as is allowable per method.
FB032019	Nitrobenzene-d5	124	51-108	Validation actions were not required as the results for sample FB032019 were nondetect and therefore not affected by the potential high bias.
	2-Fluorobiphenyl	116	45-107	
HIMW-20S	Nitrobenzene-d5	127	51-108	Validation actions were not required as the results for sample HIMW-20S were nondetect and therefore not affected by the potential high bias.
	2-Fluorobiphenyl	120	45-107	
HIMW-20I	Nitrobenzene-d5	128	51-108	Validation actions were not required as the results for sample HIMW-20I were nondetect and therefore not affected by the potential high bias.
	2-Fluorobiphenyl	122	45-107	
	Terphenyl-d14	154	40-148	

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-03S for VOC and SVOC. All criteria were met in the VOC MS/MSD analyses. The following table list the SVOC recoveries outside of control limits and the resulting actions. All MS/MSD precision criteria were met.

HIMW-03S				
Analyte	**MS/MSD (%)**	**RPD (%)**	**Control Limits (%)**	**Validation Action/Bias**
2-Methylnaphthalene	MSD 112	Criteria met	47-104	Validation actions were not required as all associated compound results were nondetect in sample HIMW-03S and therefore not affected by the potential high bias.
Acenaphthylene	107, 115		61-106	
Benzo(a)anthracene	MSD 127		73-119	
Benzo(a)pyrene	MSD 135		76-125	
Benzo(b)fluoranthene	MSD 127, 139		78-123	
Benzo(ghi)perylene	MSD 146		63-133	
Benzo(k)fluoranthene	MSD 133		71-126	
Chrysene	MSD 127		73-121	
Dibenz(ah)anthracene	MSD 137, 155		59-136	
Fluorene	MSD 118		67-112	
Indeno(123-cd)pyrene	MSD 155		57-142	
Naphthalene	MSD 106		51-98	
Pyrene	MSD 136, 155		63-129	

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HIMW-03I and DUP-02 were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples.

Quantitation Limits

Results were reported which were below the reporting limit (RL)/quantitation limit (QL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilution analyses which were performed.

Sample	SVOC Analysis Reported
HIMW-26D	A ten-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-05D	A ten-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-05I	A ten-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted. Compound identification criteria were met.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) based on an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Downstate OMM Hempstead Intersection Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report No.: 460-191558
Reviewer: Lorie MacKinnon/GEI Consultants
Date: October 3, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB091719	460-191558-01	BTEX
HIMW-28S	460-191558-02	BTEX, PAH
HIMW-28I	460-191558-03	BTEX, PAH
HIMW-27S	460-191558-04	BTEX, PAH
HIMW-27I	460-191558-05	BTEX, PAH
Dup-01	460-191558-06	BTEX, PAH
FB091719	460-191558-07	BTEX, PAH
HIMW-12S	460-191558-08	BTEX, PAH
HIMW-24	460-191558-09	BTEX, PAH
HIMW-25	460-191558-10	BTEX, PAH
HIMW-23	460-191558-11	BTEX, PAH
HIMW-08S	460-191558-12	BTEX, PAH
HIMW-08I	460-191558-13	BTEX, PAH
HIMW-08D	460-191558-14	BTEX, PAH
HIMW-22	460-191558-15	BTEX, PAH

Associated QC Samples:	Field/Trip Blanks:	FB091719, TB091719
	Field Duplicate pair:	HIMW-28S/Dup-01

The above-listed groundwater samples, field blank, and trip blank sample were collected on September 17, 2019 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260B and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced by the data package and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results

- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. All results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration standard criteria were met.

Blanks

SVOCs

Contamination was not detected in the associated method blank samples and field blank sample.

VOCs

Contamination was not detected in the associated method blanks. Contaminants were detected in the field and trip blank samples. The following table summarizes the maximum contamination and validation actions taken.

Analyte	Blank Type/ Associated Samples	Maximum Concentration Detected	2x Action Level	10x Action Level	Validation Actions
Ethylbenzene	FB091719/ TB091719: All	0.39 ug/L	0.78 ug/L	3.9 ug/L	Qualify the result for ethylbenzene in sample HIMW-27I as nondetect (U) at the RL.

Analyte	Blank Type/ Associated Samples	Maximum Concentration Detected	2x Action Level	10x Action Level	Validation Actions
Toluene	samples	0.44 ug/L	0.88 ug/L	4.4 ug/L	Qualify the results for toluene in samples HIMW-28S and Dup-01 as estimated (J); Biased high.
Total xylenes		3.1 ug/L	6.2 ug/L	31 ug/L	Qualify the results for total xylenes in samples HIMW-28S, Dup-01, and HIMW-24 as nondetect (U) at the reported values.

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and < 2x blank contamination detected; professional judgment was taken to report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL (<2xRL for common contaminants) and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate Recoveries

All surrogate recovery criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-28I for VOCs and SVOCs. All recovery and precision criteria were met.

LCS Results

SVOC

All criteria were met.

VOC

The following table lists the LCS/LCSD recoveries outside of control limits.

LCS ID	Compound	Recovery (%)	RPD (%)	Control Limit (%)	Validation Action/Bias
SVOCs					
LCS/LCSD 460-641162	Benzene	LCS 124	-	77-121	Estimate (J) the positive result for benzene in sample Dup-01; High bias.
Associated sample: Dup-01					

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HHMW-28S and Dup-01 were submitted as the field duplicate pair with this sample group. The following table summarizes the relative percent differences (RPDs) of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	HHMW-28S (ug/L)	Dup-01 (ug/L)	RPD (%)
Benzene	3.1	2.6	17.5
Ethylbenzene	76	74	2.7
Toluene	1.5	1.4	6.9
2-Methylnaphthalene	19	18	5.4
Acenaphthene	21	21	0
Acenaphthylene	2.1 J	2.0 J	4.9
Anthracene	3.7 J	3.6 J	2.7
Fluorene	20	20	0
Naphthalene	150	150	0
Phenanthrene	23	23	0
NC-Not calculable Criteria: When both results are ≥5x the RL, RPDs must be <30%. When results are < 5x the RL, the absolute difference between the original and field duplicate results must be < RL			

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample analyses which were performed and the results to be reported.

Sample	VOC Analysis Reported	SVOC Analysis Reported
HIMW-27S	A 2-fold dilution was performed due to high target compound levels. All results were detected in this sample.	A 25-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Downstate OMM Hempstead Intersection Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report Nos.: 460-191678 and 460-191743
Reviewer: Lorie MacKinnon/GEI Consultants
Date: October 3, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB091819	460-191678-01	BTEX
HIMW-14I	460-191678-02	BTEX, PAH
HIMW-14D	460-191678-03	BTEX, PAH
HIMW-15I	460-191678-04	BTEX, PAH
HIMW-15D	460-191678-05	BTEX, PAH
HIMW-13S	460-191678-06	BTEX, PAH
HIMW-13I	460-191678-07	BTEX, PAH
HIMW-13D	460-191678-08	BTEX, PAH
DUP-02	460-191678-09	BTEX, PAH
FB-091819	460-191678-10	BTEX, PAH
HIMW-20S	460-191678-11	BTEX, PAH
HIMW-20I	460-191678-12	BTEX, PAH
TB091919	460-191743-01	BTEX
HIMW-26I	460-191743-02	BTEX, PAH
HIMW-26D	460-191743-03	BTEX, PAH
HIMW-05S	460-191743-04	BTEX, PAH
HIMW-05I	460-191743-05	BTEX, PAH
HIMW-05D	460-191743-06	BTEX, PAH
HIMW-03S	460-191743-07	BTEX, PAH
HIMW-03I	460-191743-08	BTEX, PAH
HIMW-03D	460-191743-09	BTEX, PAH
Associated QC Samples:	Field/Trip Blanks:	FB091819, TB091819, TB091919
	Field Duplicate pair:	HIMW-13S/DUP-02

The above-listed groundwater samples, field blank, and trip blank samples were collected on September 18 and 19, 2019 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260B and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced by the data package and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness

- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS)/LCS Duplicate (LCSD) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. All results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data packages were complete as received by the laboratory.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration standard criteria were met.

Blanks

SVOCs

Contamination was not detected in the associated method blank samples and field blank sample.

VOCs

Contamination was not detected in the associated method blanks. Contaminants were detected in the field and trip blank samples. The following table summarizes the maximum contamination and validation actions taken.

Analyte	Blank Type/ Associated Samples	Maximum Concentration Detected	2x Action Level	10x Action Level	Validation Actions
Ethylbenzene	FB091819/ TB091919: All samples	0.41 ug/L	0.82 ug/L	4.1 ug/L	Qualify the result for ethylbenzene in sample HIMW-26D as nondetect (U) at the reporting limit. Qualify the result for ethylbenzene in sample HIMW-05D as estimated (J); Biased high.
Toluene		0.60 ug/L	1.2 ug/L	6.0 ug/L	Qualify the result for toluene in sample HIMW-26D as estimated (J); Biased high.
Total xylenes		2.7 ug/L	5.4 ug/L	27 ug/L	Validation actions were not required.

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and < 2x blank contamination detected; professional judgment was taken to report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL (<2xRL for common contaminants) and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate Recoveries

All surrogate recovery criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-13I for VOCs and SVOCs and sample HIMW-26D for VOCs. All recovery and precision criteria were met, except where noted below. The following table lists the recoveries outside of laboratory control limits and the resulting actions.

HIMW-13I					
Analyte	**MS (%)**	**MSD (%)**	**RPD (%)**	**Control Limits (%)**	**Validation Action/Bias**
SVOCs					
2-Methylnaphthalene	108	-	-	47-104	Validation actions were not required as naphthalene and 2-methylnaphthalene were not detected in sample HIMW-13I and were therefore not affected by the potential high bias.
Naphthalene	100	-	-	51-98	
- Criteria met					

LCS/LCSD Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HIMW-13S and DUP-02 were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples.

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample analyses which were performed and the results to be reported.

Sample	VOC Analysis Reported	SVOC Analysis Reported
HIMW-26D	NR	A 10-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-05I	NR	A 25-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW-05D	NR	A 10-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
NR – Dilution was not required.		

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Downstate OMM Hempstead Intersection Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report Nos.: 460-204846, 460-204841, 460-205013, and 460-205080
Reviewer: Lorie MacKinnon/GEI Consultants
Date: April 10, 2020

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB031120	460-204846-01	Not received
HIMW-28S	460-204846-02	BTEX, PAH
HIMW-28I	460-204846-03	BTEX, PAH
Dup-01	460-204846-04	BTEX, PAH
FB031120	460-204846-05	BTEX, PAH
HIMW-27S	460-204846-06	BTEX, PAH
HIMW-27I	460-204846-07	BTEX, PAH
HIMW-08S	460-204846-08	BTEX, PAH
HIMW-08I	460-204846-09	BTEX, PAH
HIMW-08D	460-204846-10	BTEX, PAH
TB031120	460-204841-01	BTEX
HIMW-13S	460-204841-02	BTEX, PAH
HIMW-13I	460-204841-03	BTEX, PAH
HIMW-13D	460-204841-04	BTEX, PAH
TB031220	460-205013-01	BTEX
HIMW-26I	460-205013-02	BTEX, PAH
HIMW-26D	460-205013-03	BTEX, PAH
HIMW-14I	460-205013-04	BTEX, PAH
HIMW-14D	460-205013-05	BTEX, PAH
HIMW-15I	460-205013-06	BTEX, PAH
HIMW-15D	460-205013-07	BTEX, PAH
HIMW-22	460-205013-08	BTEX, PAH
HIMW-23	460-205013-09	BTEX, PAH
TB031320	460-205080-01	BTEX
HIMW-25	460-205080-02	BTEX, PAH
HIMW-24	460-205080-03	BTEX, PAH
HIMW-20S	460-205080-04	BTEX, PAH
HIMW-20I	460-205080-05	BTEX, PAH
Associated QC Samples:	Field/Trip Blanks:	FB031120, TB031120, TB031220, TB031320
	Field Duplicate pair:	HIMW-28I/Dup-01

The above-listed groundwater samples, field blank, and trip blank sample were collected on March 11, 12, and 13, 2020 and were analyzed for BTEX volatile organic compounds (VOCs)

by SW-846 method 8260B and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced by the data package and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. All results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory. Although noted on the chain of custody, sample TB031120/460-204846-01 was not received.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration standard criteria were met except where noted below.

Instrument/ Calibration Standard	Compound	Calibration Exceedance	Validation Qualifier
SVOCs			
CBNAMS17: CCAL 03/15/20 20:42	Pyrene	23.2 %D	Estimate (J/UJ) the positive and nondetect results for pyrene in the associated samples.
Associated samples: HIMW-23, HIMW-26I, HIMW-14I, HIMW-14D, HIMW-15I, HIMW-15D, HIMW-22			

Initial calibration (ICAL) relative standard deviation (%RSD) > 20; estimate (J) positive and blank-qualified (UJ) results only.
Continuing calibration (CCAL) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
RF (Response factor) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Blanks

Contamination was not detected in the associated method blank samples, field blank, and trip blank samples.

Surrogate Recoveries

All surrogate recovery criteria were met except where noted below.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
SVOCs				
HIMW-23	Nitrobenzene-d5	144	46-137	Validation actions were not required as all results were nondetect in this sample and therefore were not affected by the potential high bias.
	Terphenyl-d14	202	39-150	

MS/MSD Results

MS/MSD analyses were performed on sample HIMW-28S and HIMW-23 for VOCs and SVOCs. All recovery and precision criteria were met (for analyte level less than four times the spike level) except where noted below.

HIMW-28S					
Analyte	**MS (%)**	**MSD (%)**	**RPD (%)**	**Control Limits**	**Validation Action/Bias**
VOCs					
Benzene	146	143	-	78-126	Estimate (J) the positive result for benzene in sample HIMW-28S; High bias.
- Criteria met					

Additional batch (non-project) MS/MSDs were reported. These results were not used to qualify project samples due to differences in sample matrix, type, etc.

LCS Results

All LCS/LCSD recovery and precision criteria were met except where noted below.

LCS ID	Compound	Recovery (%)	RPD (%)	Control Limit (%)	Validation Action/Bias
SVOCs					
LCS/LCSD 460-681580	Benzo(a)pyrene	63, 62	-	67-106	Estimate (UJ) the nondetect results for benzo(a)pyrene and benzo(a)anthracene in the associated samples; Low bias.
	Benzo(a)anthracene	LCSD 69	-	71-114	
Associated samples: HIMW-25, HIMW-24, HIMW-20S, HIMW-20I					
- Criteria met					

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HHMW-28I and Dup-01 were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples.

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	VOC Analysis Reported	SVOC Analysis Reported
HIMW-27S	A 2-fold dilution was performed due to high target compound levels. All results were detected in this sample.	A 10-fold dilution was performed due to high target compound levels. RLs were elevated accordingly.
HIMW-26D	Dilution was not required.	A 5-fold dilution was performed due to high target compound levels. RLs were elevated accordingly.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Site: Downstate OMM Hempstead Intersection Groundwater Monitoring
Laboratory: Test America, Edison, NJ
Report Nos.: 460-205165 and 460-205304
Reviewer: Lorie MacKinnon/GEI Consultants
Date: April 10, 2020

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TB-031620	460-205165-01	BTEX
FB-031620	460-205165-02	BTEX, PAH
HIMW-03S	460-205165-03	BTEX, PAH
HIMW-03I	460-205165-04	BTEX, PAH
HIMW-03D	460-205165-05	BTEX, PAH
HIMW-05S	460-205165-06	BTEX, PAH
DUP-02	460-205165-07	BTEX, PAH
HIMW-12S	460-205165-08	BTEX, PAH
TB031720	460-205304-01	BTEX
HIMW-05I	460-205304-02	BTEX, PAH
HIMW-05D	460-205304-03	BTEX, PAH
Associated QC Samples:	Field/Trip Blanks:	FB-031620, TB-031620, TB031720
	Field Duplicate pair:	HIMW-05S/DUP-02

The above-listed groundwater samples, field blank, and trip blank samples were collected on March 16 and 17, 2020 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260B and polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270. The data validation was performed in accordance with the Standard Operating Procedure (SOP) HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013) and SOP HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), as well as by the methods referenced by the data package and professional and technical judgment.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits
- Sample Quantitation and Compound Identification

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. All results were considered valid; even though some were qualified as discussed below.

The validation findings were based on the following information.

Data Completeness

The data packages were complete as received by the laboratory.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

Contamination was not detected in the associated method blank samples, field blank, and trip blank samples except where noted below.

Analyte	Blank Type/ Associated Samples	Concentration Detected	2x Action Level	10x Action Level	Validation Actions
VOCs					
Toluene	FB-031620: HIMW-03S, HI-MW-03I, HIMW-03D, HIMW-05S, DUP-02, HIMW-12S, HIMW-05I, HIMW-05D	0.49 ug/L	0.98 ug/L	4.9 ug/L	Validation actions were not required.

Blank Actions:
If the sample result is < RL (<2xRL for common contaminants); report the result as nondetect (U) at the reporting limit (RL) or reported value.
If the sample result is ≥ RL and < 2x blank contamination detected; professional judgment was taken to report the result as nondetect (U) at the reported value.
If the sample result is ≥ RL (<2xRL for common contaminants) and < 10x Action Level; professional judgment was taken to report the sample result as estimated (J); biased high.
If the sample result is nondetect or > 10x Action Level; validation action is not required.

Surrogate Recoveries

All surrogate recovery criteria were met except where noted below.

Sample	Surrogate	Recovery (%)	Control Limits (%)	Validation Actions
VOCs				
TB031620	4-Bromofluorobenzene	126	76-120	Validation actions were not required as all results were nondetect in this sample and therefore were not affected by the potential high bias.

MS/MSD Results

Batch (non-project) MS/MSDs were reported. These results were not used to qualify project samples due to differences in sample matrix, type, etc.

LCS Results

All LCS/LCSD recovery and precision criteria were met except where noted below.

LCS ID	Compound	Recovery (%)	RPD (%)	Control Limit (%)	Validation Action/Bias
SVOCs					
LCS/LCSD 460-681838	Benzo(a)pyrene	62, 63	-	67-106	Estimate (UJ) the nondetect results for benzo(a)pyrene, benzo(b)fluoranthene, and pyrene in the associated samples; Low bias.
	Benzo(b)fluoranthene	LCS 64	-	65-113	
	Pyrene	LCS 64	-	66-121	
Associated samples: HIMW-03S, HI-MW-03I, HIMW-03D, HIMW-05S, DUP-02, HIMW-12S					

Internal Standards

All criteria were met.

Field Duplicate Results

Samples HIMW-05S and DUP-02 were submitted as the field duplicate pair with this sample group. All results were nondetect in these samples.

Quantitation Limits

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	SVOC Dilution Reported
HIMW-05I	A 5-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.
HIMW05D	A 20-fold dilution was performed due to high target compound levels. QLs were elevated accordingly.

Sample Quantitation and Compound Identification

Compound identification criteria were met. Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client Sample ID: FB031819
Date Collected: 03/18/19 08:45
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*113*	*	*51 - 108*	*03/21/19 08:59*	*03/22/19 00:23*	*1*
Terphenyl-d14 (Surr)	*123*		*40 - 148*	*03/21/19 08:59*	*03/22/19 00:23*	*1*

Client Sample ID: HIMW-28I
Date Collected: 03/18/19 11:50
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 14:37	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/19 14:37	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 14:37	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/22/19 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*03/22/19 14:37*	*1*
4-Bromofluorobenzene	*113*		*77 - 124*		*03/22/19 14:37*	*1*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*03/22/19 14:37*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/22/19 14:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 00:44	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 00:44	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 08:59	03/22/19 00:44	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 00:44	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 00:44	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 00:44	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 00:44	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 00:44	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 00:44	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 00:44	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 00:44	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 00:44	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 00:44	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 00:44	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 00:44	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 00:44	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*45 - 107*	*03/21/19 08:59*	*03/22/19 00:44*	*1*
Nitrobenzene-d5 (Surr)	*113*	*	*51 - 108*	*03/21/19 08:59*	*03/22/19 00:44*	*1*
Terphenyl-d14 (Surr)	*110*		*40 - 148*	*03/21/19 08:59*	*03/22/19 00:44*	*1*

Client Sample ID: HIMW-28S

Date Collected: 03/18/19 12:40
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.5**		1.0	0.43	ug/L			03/22/19 17:28	1
Ethylbenzene	**68**		1.0	0.30	ug/L			03/22/19 17:28	1
Toluene	**1.3**		1.0	0.38	ug/L			03/22/19 17:28	1
Xylenes, Total	**6.9**		2.0	0.30	ug/L			03/22/19 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*74 - 132*		*03/22/19 17:28*	*1*
4-Bromofluorobenzene	*109*		*77 - 124*		*03/22/19 17:28*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*03/22/19 17:28*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/22/19 17:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**26**		10	1.1	ug/L		03/21/19 08:59	03/22/19 08:52	1
Acenaphthene	**13**		10	1.1	ug/L		03/21/19 08:59	03/22/19 08:52	1
Acenaphthylene	**0.99**	J	10	0.82	ug/L		03/21/19 08:59	03/22/19 08:52	1
Anthracene	**2.2**	J	10	0.63	ug/L		03/21/19 08:59	03/22/19 08:52	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 08:52	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 08:52	1
Benzo[b]fluoranthene	2.0	U J	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 08:52	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 08:52	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 08:52	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 08:52	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 08:52	1
Fluoranthene	**1.3**	J	10	0.84	ug/L		03/21/19 08:59	03/22/19 08:52	1
Fluorene	**8.9**	J	10	0.91	ug/L		03/21/19 08:59	03/22/19 08:52	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 08:52	1
Naphthalene	**120**		10	1.1	ug/L		03/21/19 08:59	03/22/19 08:52	1
Phenanthrene	**9.2**	J	10	0.58	ug/L		03/21/19 08:59	03/22/19 08:52	1
Pyrene	**2.1**	J	10	1.6	ug/L		03/21/19 08:59	03/22/19 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*45 - 107*	*03/21/19 08:59*	*03/22/19 08:52*	*1*
Nitrobenzene-d5 (Surr)	*97*		*51 - 108*	*03/21/19 08:59*	*03/22/19 08:52*	*1*
Terphenyl-d14 (Surr)	*79*		*40 - 148*	*03/21/19 08:59*	*03/22/19 08:52*	*1*

Client Sample ID: HIMW-25

Date Collected: 03/18/19 13:40
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 15:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/19 15:01	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 15:01	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/22/19 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*03/22/19 15:01*	*1*
4-Bromofluorobenzene	*109*		*77 - 124*		*03/22/19 15:01*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*03/22/19 15:01*	*1*

Client Sample ID: HIMW-25

Date Collected: 03/18/19 13:40
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/22/19 15:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 01:26	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 01:26	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 08:59	03/22/19 01:26	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 01:26	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 01:26	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 01:26	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 01:26	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 01:26	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 01:26	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 01:26	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 01:26	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 01:26	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 01:26	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 01:26	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 01:26	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 01:26	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*106*		*45 - 107*	*03/21/19 08:59*	*03/22/19 01:26*	*1*
Nitrobenzene-d5 (Surr)	*118*	*	*51 - 108*	*03/21/19 08:59*	*03/22/19 01:26*	*1*
Terphenyl-d14 (Surr)	*111*		*40 - 148*	*03/21/19 08:59*	*03/22/19 01:26*	*1*

Client Sample ID: HIMW-24

Date Collected: 03/18/19 14:45
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 15:25	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/19 15:25	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 15:25	1
Xylenes, Total	**5.5**	J	2.0	0.30	ug/L			03/22/19 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*03/22/19 15:25*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*03/22/19 15:25*	*1*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*03/22/19 15:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/22/19 15:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2.9**	J	10	1.1	ug/L		03/21/19 08:59	03/22/19 01:47	1
Acenaphthene	**1.7**	J	10	1.1	ug/L		03/21/19 08:59	03/22/19 01:47	1
Acenaphthylene	**6.0**	J	10	0.82	ug/L		03/21/19 08:59	03/22/19 01:47	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 01:47	1

Client Sample ID: HIMW-24

Date Collected: 03/18/19 14:45
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 01:47	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 01:47	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 01:47	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 01:47	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 01:47	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 01:47	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 01:47	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 01:47	1
Fluorene	**4.0**	J	10	0.91	ug/L		03/21/19 08:59	03/22/19 01:47	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 01:47	1
Naphthalene	**17**		10	1.1	ug/L		03/21/19 08:59	03/22/19 01:47	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 01:47	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*45 - 107*	*03/21/19 08:59*	*03/22/19 01:47*	*1*
Nitrobenzene-d5 (Surr)	*119*	*	*51 - 108*	*03/21/19 08:59*	*03/22/19 01:47*	*1*
Terphenyl-d14 (Surr)	*120*		*40 - 148*	*03/21/19 08:59*	*03/22/19 01:47*	*1*

Client Sample ID: HIMW-27S

Date Collected: 03/18/19 09:15
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**17**		2.0	0.86	ug/L			03/22/19 12:09	2
Ethylbenzene	**540**		2.0	0.60	ug/L			03/22/19 12:09	2
Toluene	**18**		2.0	0.76	ug/L			03/22/19 12:09	2
Xylenes, Total	**590**		4.0	0.59	ug/L			03/22/19 12:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*74 - 132*		*03/22/19 12:09*	*2*
4-Bromofluorobenzene	*106*		*77 - 124*		*03/22/19 12:09*	*2*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*03/22/19 12:09*	*2*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/22/19 12:09*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**350**		100	11	ug/L		03/21/19 08:59	03/22/19 07:49	10
Acenaphthene	**85**	J	100	11	ug/L		03/21/19 08:59	03/22/19 07:49	10
Acenaphthylene	100	U	100	8.2	ug/L		03/21/19 08:59	03/22/19 07:49	10
Anthracene	**8.8**	J	100	6.3	ug/L		03/21/19 08:59	03/22/19 07:49	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/21/19 08:59	03/22/19 07:49	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/21/19 08:59	03/22/19 07:49	10
Benzo[b]fluoranthene	20	U J	20	11	ug/L		03/21/19 08:59	03/22/19 07:49	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		03/21/19 08:59	03/22/19 07:49	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/21/19 08:59	03/22/19 07:49	10
Chrysene	20	U	20	9.1	ug/L		03/21/19 08:59	03/22/19 07:49	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		03/21/19 08:59	03/22/19 07:49	10
Fluoranthene	100	U	100	8.4	ug/L		03/21/19 08:59	03/22/19 07:49	10

Client Sample ID: HIMW-27S

Date Collected: 03/18/19 09:15
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**42**	J	100	9.1	ug/L		03/21/19 08:59	03/22/19 07:49	10
Indeno[1,2,3-cd]pyrene	20	U	20	13	ug/L		03/21/19 08:59	03/22/19 07:49	10
Naphthalene	**1300**		100	11	ug/L		03/21/19 08:59	03/22/19 07:49	10
Phenanthrene	**49**	J	100	5.8	ug/L		03/21/19 08:59	03/22/19 07:49	10
Pyrene	100	U	100	16	ug/L		03/21/19 08:59	03/22/19 07:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*45 - 107*	*03/21/19 08:59*	*03/22/19 07:49*	*10*
Nitrobenzene-d5 (Surr)	*89*		*51 - 108*	*03/21/19 08:59*	*03/22/19 07:49*	*10*
Terphenyl-d14 (Surr)	*99*		*40 - 148*	*03/21/19 08:59*	*03/22/19 07:49*	*10*

Client Sample ID: HIMW-27I

Date Collected: 03/18/19 10:30
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 16:14	1
Ethylbenzene	**0.55**	J	1.0	0.30	ug/L			03/22/19 16:14	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 16:14	1
Xylenes, Total	~~0.58~~ J 2.0 U		2.0	0.30	ug/L			03/22/19 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*03/22/19 16:14*	*1*
4-Bromofluorobenzene	*112*		*77 - 124*		*03/22/19 16:14*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*03/22/19 16:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/22/19 16:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:08	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:08	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 08:59	03/22/19 02:08	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 02:08	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 02:08	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 02:08	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 02:08	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 02:08	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 02:08	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 02:08	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 02:08	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 02:08	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 02:08	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 02:08	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:08	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 02:08	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*	*	*45 - 107*	*03/21/19 08:59*	*03/22/19 02:08*	*1*
Nitrobenzene-d5 (Surr)	*121*	*	*51 - 108*	*03/21/19 08:59*	*03/22/19 02:08*	*1*

Client Sample ID: HIMW-27I

Date Collected: 03/18/19 10:30
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	121		40 - 148	03/21/19 08:59	03/22/19 02:08	1

Client Sample ID: HIMW-08S

Date Collected: 03/18/19 12:40
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**650**		2.0	0.86	ug/L			03/22/19 12:34	2
Ethylbenzene	**50**		2.0	0.60	ug/L			03/22/19 12:34	2
Toluene	**260**		2.0	0.76	ug/L			03/22/19 12:34	2
Xylenes, Total	**140**		4.0	0.59	ug/L			03/22/19 12:34	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		74 - 132		03/22/19 12:34	2
4-Bromofluorobenzene	104		77 - 124		03/22/19 12:34	2
Dibromofluoromethane (Surr)	103		72 - 131		03/22/19 12:34	2
Toluene-d8 (Surr)	100		80 - 120		03/22/19 12:34	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2.4**	J	10	1.1	ug/L		03/21/19 08:59	03/22/19 09:13	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 09:13	1
Acenaphthylene	**1.9**	J	10	0.82	ug/L		03/21/19 08:59	03/22/19 09:13	1
Anthracene	**0.77**	J	10	0.63	ug/L		03/21/19 08:59	03/22/19 09:13	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 09:13	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 09:13	1
Benzo[b]fluoranthene	2.0	U J	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 09:13	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 09:13	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 09:13	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 09:13	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 09:13	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 09:13	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 09:13	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 09:13	1
Naphthalene	**81**		10	1.1	ug/L		03/21/19 08:59	03/22/19 09:13	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 09:13	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		45 - 107	03/21/19 08:59	03/22/19 09:13	1
Nitrobenzene-d5 (Surr)	98		51 - 108	03/21/19 08:59	03/22/19 09:13	1
Terphenyl-d14 (Surr)	91		40 - 148	03/21/19 08:59	03/22/19 09:13	1

Client Sample ID: HIMW-08I

Date Collected: 03/18/19 13:30
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 16:39	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/19 16:39	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 16:39	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/22/19 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*74 - 132*		*03/22/19 16:39*	*1*
4-Bromofluorobenzene	*104*		*77 - 124*		*03/22/19 16:39*	*1*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*03/22/19 16:39*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/22/19 16:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:29	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:29	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 08:59	03/22/19 02:29	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 02:29	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 02:29	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 02:29	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 02:29	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 02:29	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 02:29	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 02:29	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 02:29	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 02:29	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 02:29	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 02:29	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:29	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 02:29	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*	*	*45 - 107*	*03/21/19 08:59*	*03/22/19 02:29*	*1*
Nitrobenzene-d5 (Surr)	*115*	*	*51 - 108*	*03/21/19 08:59*	*03/22/19 02:29*	*1*
Terphenyl-d14 (Surr)	*115*		*40 - 148*	*03/21/19 08:59*	*03/22/19 02:29*	*1*

Client Sample ID: HIMW-08D

Date Collected: 03/18/19 14:30
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 15:49	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/19 15:49	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 15:49	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/22/19 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*03/22/19 15:49*	*1*
4-Bromofluorobenzene	*105*		*77 - 124*		*03/22/19 15:49*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*03/22/19 15:49*	*1*

Client Sample ID: HIMW-08D
Date Collected: 03/18/19 14:30
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		03/22/19 15:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:50	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:50	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 08:59	03/22/19 02:50	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 02:50	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 02:50	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 02:50	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 02:50	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 02:50	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 02:50	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 02:50	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 02:50	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 02:50	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 02:50	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 02:50	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 02:50	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 02:50	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		45 - 107	03/21/19 08:59	03/22/19 02:50	1
Nitrobenzene-d5 (Surr)	97		51 - 108	03/21/19 08:59	03/22/19 02:50	1
Terphenyl-d14 (Surr)	97		40 - 148	03/21/19 08:59	03/22/19 02:50	1

Client Sample ID: DUP-01 Q1
Date Collected: 03/18/19 00:00
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/22/19 17:03	1
Ethylbenzene	**0.44**	**J**	1.0	0.30	ug/L			03/22/19 17:03	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/19 17:03	1
Xylenes, Total	~~0.54 J~~ 2.0 U		2.0	0.30	ug/L			03/22/19 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		74 - 132		03/22/19 17:03	1
4-Bromofluorobenzene	103		77 - 124		03/22/19 17:03	1
Dibromofluoromethane (Surr)	109		72 - 131		03/22/19 17:03	1
Toluene-d8 (Surr)	98		80 - 120		03/22/19 17:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 03:10	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 03:10	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 08:59	03/22/19 03:10	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 08:59	03/22/19 03:10	1

Client Sample ID: DUP-01 Q1
Date Collected: 03/18/19 00:00
Date Received: 03/18/19 21:30

Lab Sample ID: 460-177544-12
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 08:59	03/22/19 03:10	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 08:59	03/22/19 03:10	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 08:59	03/22/19 03:10	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/21/19 08:59	03/22/19 03:10	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 08:59	03/22/19 03:10	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 08:59	03/22/19 03:10	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 08:59	03/22/19 03:10	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 08:59	03/22/19 03:10	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 08:59	03/22/19 03:10	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/21/19 08:59	03/22/19 03:10	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 08:59	03/22/19 03:10	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 08:59	03/22/19 03:10	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 08:59	03/22/19 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*45 - 107*	*03/21/19 08:59*	*03/22/19 03:10*	*1*
Nitrobenzene-d5 (Surr)	*107*		*51 - 108*	*03/21/19 08:59*	*03/22/19 03:10*	*1*
Terphenyl-d14 (Surr)	*105*		*40 - 148*	*03/21/19 08:59*	*03/22/19 03:10*	*1*

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

NYC 222

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 3/18/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 758-2987	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler: R. Sakalauskas
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Bay Shore GW Monitoring	☐ 1 week			
Site: Hempstead Intersection Former MGP Q1	☐ 2 days			Job / SDG No.:
P O # 1702897.30.1	☐ 1 day			

5-Day RUSH

177544

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB031819	3/18/19	—	G	GW	2			x		1
FB031819		8:45			5			X	X	2
HIMW-28I		11:50			5			X	X	3
HIMW-28S		12:40			5			X	X	4
HIMW-25		13:40			5			X	X	5
HIMW-24		14:45			5			X	X	6
HIMW-27S		0915			15			X	X	7
HIMW-27I		1030			5			X	X	8
HIMW-08S		1240			5			X	X	9
HIMW-08I		1330			5			X	X	10
HIMW-08D		1430			5			X	X	11
DUP-01 Q1		—			5			X	X	12

460-177544 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd:		Therm ID No.:
Relinquished by: R.Sakalauskas	Company: GEI Consultants Inc. P.C.	Date/Time: 3/18/19	Received by:	Company:	Date/Time: 3/18/19 1600
Relinquished by:	Company:	Date/Time: 3/18/19 1740	Received by:	Company:	Date/Time: 3/18/19 1730
Relinquished by:	Company:	Date/Time: 3/18/19 2130	Received in Laboratory by:	Company:	Date/Time: 3/18/19 2130

3.0 / 3.0 SM4

Client Sample ID: TB031919
Date Collected: 03/19/19 00:00
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 12:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 12:35	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 12:35	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*03/23/19 12:35*	*1*
4-Bromofluorobenzene	*114*		*77 - 124*		*03/23/19 12:35*	*1*
Dibromofluoromethane (Surr)	*110*		*72 - 131*		*03/23/19 12:35*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*03/23/19 12:35*	*1*

Client Sample ID: HIMW-12S
Date Collected: 03/19/19 08:55
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 14:09	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 14:09	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 14:09	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*74 - 132*		*03/23/19 14:09*	*1*
4-Bromofluorobenzene	*90*		*77 - 124*		*03/23/19 14:09*	*1*
Dibromofluoromethane (Surr)	*93*		*72 - 131*		*03/23/19 14:09*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/23/19 14:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/21/19 23:56	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/21/19 23:56	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/21/19 23:56	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/21/19 23:56	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/21/19 23:56	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/21/19 23:56	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/21/19 23:56	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/21/19 23:56	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/21/19 23:56	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/21/19 23:56	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/21/19 23:56	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/21/19 23:56	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/21/19 23:56	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/21/19 23:56	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/21/19 23:56	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/21/19 23:56	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/21/19 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*45 - 107*	*03/21/19 12:39*	*03/21/19 23:56*	*1*

AM 4/5/19

Client Sample ID: HIMW-12S
Date Collected: 03/19/19 08:55
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*97*		*51 - 108*	*03/21/19 12:39*	*03/21/19 23:56*	*1*
Terphenyl-d14 (Surr)	*119*		*40 - 148*	*03/21/19 12:39*	*03/21/19 23:56*	*1*

Client Sample ID: HIMW-15S
Date Collected: 03/19/19 11:05
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 14:32	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 14:32	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 14:32	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*74 - 132*		*03/23/19 14:32*	*1*
4-Bromofluorobenzene	*112*		*77 - 124*		*03/23/19 14:32*	*1*
Dibromofluoromethane (Surr)	*113*		*72 - 131*		*03/23/19 14:32*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*03/23/19 14:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:17	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:17	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/22/19 00:17	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 00:17	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 00:17	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 00:17	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 00:17	1
Benzo[g,h,i]perylene	10	U J-	10	1.4	ug/L		03/21/19 12:39	03/22/19 00:17	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 00:17	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 00:17	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 00:17	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 00:17	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 00:17	1
Indeno[1,2,3-cd]pyrene	2.0	U J-	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 00:17	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:17	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 00:17	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*90*		*45 - 107*	*03/21/19 12:39*	*03/22/19 00:17*	*1*
Nitrobenzene-d5 (Surr)	*94*		*51 - 108*	*03/21/19 12:39*	*03/22/19 00:17*	*1*
Terphenyl-d14 (Surr)	*109*		*40 - 148*	*03/21/19 12:39*	*03/22/19 00:17*	*1*

Client Sample ID: HIMW-15I

Date Collected: 03/19/19 10:05
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.57**	J	1.0	0.43	ug/L			03/23/19 14:55	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 14:55	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 14:55	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*74 - 132*		*03/23/19 14:55*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*03/23/19 14:55*	*1*
Dibromofluoromethane (Surr)	*94*		*72 - 131*		*03/23/19 14:55*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/23/19 14:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:38	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:38	1
Acenaphthylene	**4.5**	J	10	0.82	ug/L		03/21/19 12:39	03/22/19 00:38	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 00:38	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 00:38	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 00:38	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 00:38	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 00:38	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 00:38	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 00:38	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 00:38	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 00:38	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 00:38	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 00:38	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:38	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 00:38	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*106*		*45 - 107*	*03/21/19 12:39*	*03/22/19 00:38*	*1*
Nitrobenzene-d5 (Surr)	*105*		*51 - 108*	*03/21/19 12:39*	*03/22/19 00:38*	*1*
Terphenyl-d14 (Surr)	*110*		*40 - 148*	*03/21/19 12:39*	*03/22/19 00:38*	*1*

Client Sample ID: HIMW-14I

Date Collected: 03/19/19 13:00
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0	0.43	ug/L			03/23/19 15:19	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 15:19	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 15:19	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*03/23/19 15:19*	*1*
4-Bromofluorobenzene	*97*		*77 - 124*		*03/23/19 15:19*	*1*
Dibromofluoromethane (Surr)	*98*		*72 - 131*		*03/23/19 15:19*	*1*

Client Sample ID: HIMW-14I

Date Collected: 03/19/19 13:00
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		03/23/19 15:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:59	1
Acenaphthene	**5.1**	**J**	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:59	1
Acenaphthylene	**6.0**	**J**	10	0.82	ug/L		03/21/19 12:39	03/22/19 00:59	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 00:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 00:59	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 00:59	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 00:59	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 00:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 00:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 00:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 00:59	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 00:59	1
Fluorene	**1.8**	**J**	10	0.91	ug/L		03/21/19 12:39	03/22/19 00:59	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 00:59	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 00:59	1
Phenanthrene	**1.8**	**J**	10	0.58	ug/L		03/21/19 12:39	03/22/19 00:59	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		45 - 107	03/21/19 12:39	03/22/19 00:59	1
Nitrobenzene-d5 (Surr)	95		51 - 108	03/21/19 12:39	03/22/19 00:59	1
Terphenyl-d14 (Surr)	104		40 - 148	03/21/19 12:39	03/22/19 00:59	1

Client Sample ID: HIMW-14D

Date Collected: 03/19/19 13:55
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 15:42	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 15:42	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 15:42	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		74 - 132		03/23/19 15:42	1
4-Bromofluorobenzene	94		77 - 124		03/23/19 15:42	1
Dibromofluoromethane (Surr)	96		72 - 131		03/23/19 15:42	1
Toluene-d8 (Surr)	95		80 - 120		03/23/19 15:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 01:20	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 01:20	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/22/19 01:20	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 01:20	1

Client Sample ID: HIMW-14D

Date Collected: 03/19/19 13:55
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 01:20	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 01:20	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 01:20	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 01:20	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 01:20	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 01:20	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 01:20	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 01:20	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 01:20	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 01:20	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 01:20	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 01:20	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*45 - 107*	*03/21/19 12:39*	*03/22/19 01:20*	*1*
Nitrobenzene-d5 (Surr)	*106*		*51 - 108*	*03/21/19 12:39*	*03/22/19 01:20*	*1*
Terphenyl-d14 (Surr)	*121*		*40 - 148*	*03/21/19 12:39*	*03/22/19 01:20*	*1*

Client Sample ID: HIMW-13S

Date Collected: 03/19/19 09:55
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 16:05	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 16:05	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 16:05	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*03/23/19 16:05*	*1*
4-Bromofluorobenzene	*107*		*77 - 124*		*03/23/19 16:05*	*1*
Dibromofluoromethane (Surr)	*112*		*72 - 131*		*03/23/19 16:05*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/23/19 16:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 01:41	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 01:41	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/22/19 01:41	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 01:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 01:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 01:41	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 01:41	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 01:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 01:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 01:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 01:41	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 01:41	1

Client Sample ID: HIMW-13S

Date Collected: 03/19/19 09:55
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 01:41	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 01:41	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 01:41	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 01:41	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*110*	*	*45 - 107*	*03/21/19 12:39*	*03/22/19 01:41*	*1*
Nitrobenzene-d5 (Surr)	*107*		*51 - 108*	*03/21/19 12:39*	*03/22/19 01:41*	*1*
Terphenyl-d14 (Surr)	*120*		*40 - 148*	*03/21/19 12:39*	*03/22/19 01:41*	*1*

Client Sample ID: HIMW-13I

Date Collected: 03/19/19 10:40
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 16:29	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 16:29	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 16:29	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*03/23/19 16:29*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*03/23/19 16:29*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*03/23/19 16:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/23/19 16:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:02	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:02	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/22/19 02:02	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 02:02	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 02:02	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 02:02	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 02:02	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 02:02	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 02:02	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 02:02	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 02:02	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 02:02	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 02:02	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 02:02	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:02	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 02:02	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*45 - 107*	*03/21/19 12:39*	*03/22/19 02:02*	*1*
Nitrobenzene-d5 (Surr)	*103*		*51 - 108*	*03/21/19 12:39*	*03/22/19 02:02*	*1*

Client Sample ID: HIMW-13I
Date Collected: 03/19/19 10:40
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*117*		*40 - 148*	*03/21/19 12:39*	*03/22/19 02:02*	*1*

Client Sample ID: HIMW-13D
Date Collected: 03/19/19 11:25
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.47**	J	1.0	0.43	ug/L			03/23/19 16:52	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 16:52	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 16:52	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*74 - 132*		*03/23/19 16:52*	*1*
4-Bromofluorobenzene	*96*		*77 - 124*		*03/23/19 16:52*	*1*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*03/23/19 16:52*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/23/19 16:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:23	1
Acenaphthene	**7.7**	J	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:23	1
Acenaphthylene	**14**		10	0.82	ug/L		03/21/19 12:39	03/22/19 02:23	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 02:23	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 02:23	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 02:23	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 02:23	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 02:23	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 02:23	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 02:23	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 02:23	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 02:23	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 02:23	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 02:23	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:23	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 02:23	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*99*		*45 - 107*	*03/21/19 12:39*	*03/22/19 02:23*	*1*
Nitrobenzene-d5 (Surr)	*97*		*51 - 108*	*03/21/19 12:39*	*03/22/19 02:23*	*1*
Terphenyl-d14 (Surr)	*103*		*40 - 148*	*03/21/19 12:39*	*03/22/19 02:23*	*1*

Client Sample ID: HIMW-23

Date Collected: 03/19/19 13:30
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 17:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 17:15	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 17:15	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*74 - 132*		*03/23/19 17:15*	*1*
4-Bromofluorobenzene	*102*		*77 - 124*		*03/23/19 17:15*	*1*
Dibromofluoromethane (Surr)	*103*		*72 - 131*		*03/23/19 17:15*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/23/19 17:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:44	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:44	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/22/19 02:44	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 02:44	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 02:44	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 02:44	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 02:44	1
Benzo[g,h,i]perylene	10	U J-	10	1.4	ug/L		03/21/19 12:39	03/22/19 02:44	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 02:44	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 02:44	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 02:44	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 02:44	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 02:44	1
Indeno[1,2,3-cd]pyrene	2.0	U J-	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 02:44	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 02:44	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 02:44	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*45 - 107*	*03/21/19 12:39*	*03/22/19 02:44*	*1*
Nitrobenzene-d5 (Surr)	*98*		*51 - 108*	*03/21/19 12:39*	*03/22/19 02:44*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 148*	*03/21/19 12:39*	*03/22/19 02:44*	*1*

Client Sample ID: HIMW-22

Date Collected: 03/19/19 14:40
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/23/19 17:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/23/19 17:38	1
Toluene	1.0	U	1.0	0.38	ug/L			03/23/19 17:38	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/23/19 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*74 - 132*		*03/23/19 17:38*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*03/23/19 17:38*	*1*
Dibromofluoromethane (Surr)	*102*		*72 - 131*		*03/23/19 17:38*	*1*

Client Sample ID: HIMW-22
Date Collected: 03/19/19 14:40
Date Received: 03/19/19 19:40

Lab Sample ID: 460-177579-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		03/23/19 17:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 03:05	1
Acenaphthene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 03:05	1
Acenaphthylene	10	U	10	0.82	ug/L		03/21/19 12:39	03/22/19 03:05	1
Anthracene	10	U	10	0.63	ug/L		03/21/19 12:39	03/22/19 03:05	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/21/19 12:39	03/22/19 03:05	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/21/19 12:39	03/22/19 03:05	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/21/19 12:39	03/22/19 03:05	1
Benzo[g,h,i]perylene	10	U J	10	1.4	ug/L		03/21/19 12:39	03/22/19 03:05	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/21/19 12:39	03/22/19 03:05	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/21/19 12:39	03/22/19 03:05	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/21/19 12:39	03/22/19 03:05	1
Fluoranthene	10	U	10	0.84	ug/L		03/21/19 12:39	03/22/19 03:05	1
Fluorene	10	U	10	0.91	ug/L		03/21/19 12:39	03/22/19 03:05	1
Indeno[1,2,3-cd]pyrene	2.0	U J	2.0	1.3	ug/L		03/21/19 12:39	03/22/19 03:05	1
Naphthalene	10	U	10	1.1	ug/L		03/21/19 12:39	03/22/19 03:05	1
Phenanthrene	10	U	10	0.58	ug/L		03/21/19 12:39	03/22/19 03:05	1
Pyrene	10	U	10	1.6	ug/L		03/21/19 12:39	03/22/19 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		45 - 107	03/21/19 12:39	03/22/19 03:05	1
Nitrobenzene-d5 (Surr)	103		51 - 108	03/21/19 12:39	03/22/19 03:05	1
Terphenyl-d14 (Surr)	117		40 - 148	03/21/19 12:39	03/22/19 03:05	1

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

460-177579 Chain of Custody

cord

177579

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Prog

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 3/19/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler: R. Sakalauskas
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid [redacted] GW Monitoring	☐ 1 week			
Site: Hempstead Intersection Former MGP Q1	☐ 2 days			Job / SDG No.:
P O # 1702867.30.1	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB031919	3/19/19	—	G	GW	2			x		1
HIMW-12S		8:55			5			x	x	2
HIMW-15S		1105			5			x	x	3
HIMW-15I		1005			5			x	x	4
HIMW-14I		1300			5			x	x	5
HIMW-14D		1355			5			x	x	6
HIMW-13S		0955			5			x	x	7
HIMW-13I		1040			5			x	x	8
HIMW-13D		1125			5			x	x	9
HIMW-23	↓	1330			5			x	x	10
HIMW-22		1440	↓	↓	6			x	x	11
										—

5-Day RUSH

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be asses... samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: R.Sakalauskas	Company: GEI Consultants Inc. P.C	Date/Time: 3/19/19	Received by:	Company:	Date/Time: 3/19/19 1500
Relinquished by:	Company:	Date/Time: 3/19/19 1620	Received by:	Company:	Date/Time: 3/19/19 1630
Relinquished by:	Company:	Date/Time: 3/19/19 1940	Received in Laboratory by:	Company: TA	Date/Time: 3/19/19 1940

3.1/3.1

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Client Sample ID: TB032019

Date Collected: 03/20/19 00:00
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 18:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 18:38	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 18:38	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*03/24/19 18:38*	*1*
4-Bromofluorobenzene	*105*		*77 - 124*		*03/24/19 18:38*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*03/24/19 18:38*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/24/19 18:38*	*1*

Client Sample ID: HIMW-03S

Date Collected: 03/20/19 08:10
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 21:42	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 21:42	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 21:42	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*03/24/19 21:42*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*03/24/19 21:42*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*03/24/19 21:42*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/24/19 21:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/23/19 21:08	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/23/19 21:08	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/23/19 21:08	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/23/19 21:08	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/23/19 21:08	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/23/19 21:08	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/23/19 21:08	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/23/19 21:08	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/23/19 21:08	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/23/19 21:08	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/23/19 21:08	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/23/19 21:08	1
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/23/19 21:08	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/23/19 21:08	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/23/19 21:08	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/23/19 21:08	1
Pyrene	10	U J-	10	1.6	ug/L		03/23/19 07:59	03/23/19 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*45 - 107*	*03/23/19 07:59*	*03/23/19 21:08*	*1*

dam 4/7/19

Client Sample ID: HIMW-03S
Date Collected: 03/20/19 08:10
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*76*		*51 - 108*	*03/23/19 07:59*	*03/23/19 21:08*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 148*	*03/23/19 07:59*	*03/23/19 21:08*	*1*

Client Sample ID: HIMW-03I
Date Collected: 03/20/19 09:30
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 19:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 19:31	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 19:31	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*03/24/19 19:31*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*03/24/19 19:31*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*03/24/19 19:31*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/24/19 19:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 02:41	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 02:41	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/24/19 02:41	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/24/19 02:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/24/19 02:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/24/19 02:41	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/24/19 02:41	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/24/19 02:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/24/19 02:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/24/19 02:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/24/19 02:41	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/24/19 02:41	1
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/24/19 02:41	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/24/19 02:41	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 02:41	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/24/19 02:41	1
Pyrene	10	U J	10	1.6	ug/L		03/23/19 07:59	03/24/19 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*99*		*45 - 107*	*03/23/19 07:59*	*03/24/19 02:41*	*1*
Nitrobenzene-d5 (Surr)	*106*		*51 - 108*	*03/23/19 07:59*	*03/24/19 02:41*	*1*
Terphenyl-d14 (Surr)	*129*		*40 - 148*	*03/23/19 07:59*	*03/24/19 02:41*	*1*

Client Sample ID: HIMW-03D

Date Collected: 03/20/19 10:50
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 19:57	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 19:57	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 19:57	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*		*03/24/19 19:57*	*1*
4-Bromofluorobenzene	*104*		*77 - 124*		*03/24/19 19:57*	*1*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*03/24/19 19:57*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/24/19 19:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:02	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:02	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/24/19 03:02	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/24/19 03:02	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/24/19 03:02	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/24/19 03:02	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/24/19 03:02	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/24/19 03:02	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/24/19 03:02	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/24/19 03:02	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/24/19 03:02	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/24/19 03:02	1
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/24/19 03:02	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/24/19 03:02	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:02	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/24/19 03:02	1
Pyrene	10	U J	10	1.6	ug/L		03/23/19 07:59	03/24/19 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*45 - 107*	*03/23/19 07:59*	*03/24/19 03:02*	*1*
Nitrobenzene-d5 (Surr)	*111*	*	*51 - 108*	*03/23/19 07:59*	*03/24/19 03:02*	*1*
Terphenyl-d14 (Surr)	*125*		*40 - 148*	*03/23/19 07:59*	*03/24/19 03:02*	*1*

Client Sample ID: FB032019

Date Collected: 03/20/19 09:40
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 19:04	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 19:04	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 19:04	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*03/24/19 19:04*	*1*
4-Bromofluorobenzene	*105*		*77 - 124*		*03/24/19 19:04*	*1*
Dibromofluoromethane (Surr)	*107*		*72 - 131*		*03/24/19 19:04*	*1*

Client Sample ID: FB032019

Date Collected: 03/20/19 09:40
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		03/24/19 19:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:22	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:22	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/24/19 03:22	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/24/19 03:22	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/24/19 03:22	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/24/19 03:22	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/24/19 03:22	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/24/19 03:22	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/24/19 03:22	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/24/19 03:22	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/24/19 03:22	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/24/19 03:22	1
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/24/19 03:22	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/24/19 03:22	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:22	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/24/19 03:22	1
Pyrene	10	U J-	10	1.6	ug/L		03/23/19 07:59	03/24/19 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116	*	45 - 107	03/23/19 07:59	03/24/19 03:22	1
Nitrobenzene-d5 (Surr)	124	*	51 - 108	03/23/19 07:59	03/24/19 03:22	1
Terphenyl-d14 (Surr)	142		40 - 148	03/23/19 07:59	03/24/19 03:22	1

Client Sample ID: DUP-02

Date Collected: 03/20/19 00:00
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 20:23	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 20:23	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 20:23	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		74 - 132		03/24/19 20:23	1
4-Bromofluorobenzene	105		77 - 124		03/24/19 20:23	1
Dibromofluoromethane (Surr)	107		72 - 131		03/24/19 20:23	1
Toluene-d8 (Surr)	89		80 - 120		03/24/19 20:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:43	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:43	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/24/19 03:43	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/24/19 03:43	1

Client Sample ID: DUP-02

Date Collected: 03/20/19 00:00
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/24/19 03:43	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/24/19 03:43	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/24/19 03:43	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/24/19 03:43	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/24/19 03:43	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/24/19 03:43	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/24/19 03:43	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/24/19 03:43	1
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/24/19 03:43	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/24/19 03:43	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 03:43	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/24/19 03:43	1
Pyrene	10	U J	10	1.6	ug/L		03/23/19 07:59	03/24/19 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*104*		*45 - 107*	*03/23/19 07:59*	*03/24/19 03:43*	*1*
Nitrobenzene-d5 (Surr)	*108*		*51 - 108*	*03/23/19 07:59*	*03/24/19 03:43*	*1*
Terphenyl-d14 (Surr)	*126*		*40 - 148*	*03/23/19 07:59*	*03/24/19 03:43*	*1*

Client Sample ID: HIMW-20S

Date Collected: 03/20/19 13:30
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 20:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 20:50	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 20:50	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*		*03/24/19 20:50*	*1*
4-Bromofluorobenzene	*103*		*77 - 124*		*03/24/19 20:50*	*1*
Dibromofluoromethane (Surr)	*107*		*72 - 131*		*03/24/19 20:50*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/24/19 20:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 04:04	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 04:04	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/24/19 04:04	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/24/19 04:04	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/24/19 04:04	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/24/19 04:04	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/24/19 04:04	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/24/19 04:04	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/24/19 04:04	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/24/19 04:04	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/24/19 04:04	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/24/19 04:04	1

Client Sample ID: HIMW-20S

Date Collected: 03/20/19 13:30
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/24/19 04:04	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/24/19 04:04	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 04:04	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/24/19 04:04	1
Pyrene	10	U J	10	1.6	ug/L		03/23/19 07:59	03/24/19 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*120*	*	*45 - 107*	*03/23/19 07:59*	*03/24/19 04:04*	*1*
Nitrobenzene-d5 (Surr)	*127*	*	*51 - 108*	*03/23/19 07:59*	*03/24/19 04:04*	*1*
Terphenyl-d14 (Surr)	*145*		*40 - 148*	*03/23/19 07:59*	*03/24/19 04:04*	*1*

Client Sample ID: HIMW-20I

Date Collected: 03/20/19 12:40
Date Received: 03/21/19 20:00

Lab Sample ID: 460-177767-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/24/19 21:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/24/19 21:16	1
Toluene	1.0	U	1.0	0.38	ug/L			03/24/19 21:16	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/24/19 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*03/24/19 21:16*	*1*
4-Bromofluorobenzene	*104*		*77 - 124*		*03/24/19 21:16*	*1*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*03/24/19 21:16*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/24/19 21:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 04:24	1
Acenaphthene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 04:24	1
Acenaphthylene	10	U	10	0.82	ug/L		03/23/19 07:59	03/24/19 04:24	1
Anthracene	10	U	10	0.63	ug/L		03/23/19 07:59	03/24/19 04:24	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/23/19 07:59	03/24/19 04:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/23/19 07:59	03/24/19 04:24	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/23/19 07:59	03/24/19 04:24	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/23/19 07:59	03/24/19 04:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/23/19 07:59	03/24/19 04:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/23/19 07:59	03/24/19 04:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/23/19 07:59	03/24/19 04:24	1
Fluoranthene	10	U	10	0.84	ug/L		03/23/19 07:59	03/24/19 04:24	1
Fluorene	10	U	10	0.91	ug/L		03/23/19 07:59	03/24/19 04:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/23/19 07:59	03/24/19 04:24	1
Naphthalene	10	U	10	1.1	ug/L		03/23/19 07:59	03/24/19 04:24	1
Phenanthrene	10	U	10	0.58	ug/L		03/23/19 07:59	03/24/19 04:24	1
Pyrene	10	U J	10	1.6	ug/L		03/23/19 07:59	03/24/19 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*122*	*	*45 - 107*	*03/23/19 07:59*	*03/24/19 04:24*	*1*
Nitrobenzene-d5 (Surr)	*128*	*	*51 - 108*	*03/23/19 07:59*	*03/24/19 04:24*	*1*

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

177767

TestAmerica

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

NYC

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 3/20/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: TestAmerica	1 of 1 COCs
110 Walte Whitman Road Suite 204	**Analysis Turnaround Time**			Sampler: RS
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Downstate	☐ 1 week			
Site: Hempstead Intersection	☐ 2 days			Job / SDG No.:
P O # 1702897.30.1	☐ 1 day			

5-Day RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D		Sample Specific Notes:
TB032019	3/20/19	—	G	GW	2			X		1	
HIMW-03S		810			5			X	X	2	MS/MSD
HIMW-03I		930			5			X	X	3	
HIMW-03D		1050			5			X	X	4	
FB032019		940			5			X	X	5	
DUP-02		—			5			X	X	6	
HIMW-20S		1330			5			X	X	7	
HIMW-20I		1240			5			X	X	8	

460-177767 Chain of Custody

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: Corr'd:	Therm ID No.:
Relinquished by: RJ Schaller	Company: GEI Consultants Inc. P.C	Date/Time: 3/20/19	Received by:	Company:	Date/Time: 3/21/19 1210
Relinquished by:	Company:	Date/Time: 3/21/19 1600	Received by:	Company:	Date/Time: 3/21/19 17:00
Relinquished by:	Company:	Date/Time: 3/21/19 2000	Received in Laboratory by:	Company:	Date/Time: 3/21/19 2000

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

3.0 | 3.5 IR #9

Client Sample ID: TB032519

Date Collected: 03/25/19 00:00
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/29/19 22:58	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/29/19 22:58	1
Toluene	1.0	U	1.0	0.38	ug/L			03/29/19 22:58	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/29/19 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*03/29/19 22:58*	*1*
4-Bromofluorobenzene	*105*		*77 - 124*		*03/29/19 22:58*	*1*
Dibromofluoromethane (Surr)	*115*		*72 - 131*		*03/29/19 22:58*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/29/19 22:58*	*1*

Client Sample ID: HIMW-26I

Date Collected: 03/25/19 07:40
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/30/19 04:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/30/19 04:26	1
Toluene	1.0	U	1.0	0.38	ug/L			03/30/19 04:26	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/30/19 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*		*03/30/19 04:26*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*03/30/19 04:26*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*03/30/19 04:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/30/19 04:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/28/19 08:48	03/28/19 20:07	1
Acenaphthene	10	U	10	1.1	ug/L		03/28/19 08:48	03/28/19 20:07	1
Acenaphthylene	10	U	10	0.82	ug/L		03/28/19 08:48	03/28/19 20:07	1
Anthracene	10	U	10	0.63	ug/L		03/28/19 08:48	03/28/19 20:07	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/28/19 08:48	03/28/19 20:07	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/28/19 08:48	03/28/19 20:07	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/28/19 08:48	03/28/19 20:07	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/28/19 08:48	03/28/19 20:07	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/28/19 08:48	03/28/19 20:07	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/28/19 08:48	03/28/19 20:07	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/28/19 08:48	03/28/19 20:07	1
Fluoranthene	10	U	10	0.84	ug/L		03/28/19 08:48	03/28/19 20:07	1
Fluorene	10	U	10	0.91	ug/L		03/28/19 08:48	03/28/19 20:07	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/28/19 08:48	03/28/19 20:07	1
Naphthalene	**1.1**	**J**	10	1.1	ug/L		03/28/19 08:48	03/28/19 20:07	1
Phenanthrene	10	U	10	0.58	ug/L		03/28/19 08:48	03/28/19 20:07	1
Pyrene	10	U	10	1.6	ug/L		03/28/19 08:48	03/28/19 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*45 - 107*	*03/28/19 08:48*	*03/28/19 20:07*	*1*

Jam 4/7/19

Client Sample ID: HIMW-26I

Date Collected: 03/25/19 07:40
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*88*		*51 - 108*	*03/28/19 08:48*	*03/28/19 20:07*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 148*	*03/28/19 08:48*	*03/28/19 20:07*	*1*

Client Sample ID: HIMW-26D

Date Collected: 03/25/19 06:35
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/30/19 05:47	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/30/19 05:47	1
Toluene	**0.68**	J	1.0	0.38	ug/L			03/30/19 05:47	1
Xylenes, Total	**72**		2.0	0.30	ug/L			03/30/19 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*74 - 132*		*03/30/19 05:47*	*1*
4-Bromofluorobenzene	*103*		*77 - 124*		*03/30/19 05:47*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*03/30/19 05:47*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/30/19 05:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**290**		100	11	ug/L		03/28/19 08:48	03/29/19 09:23	10
Acenaphthene	100	U	100	11	ug/L		03/28/19 08:48	03/29/19 09:23	10
Acenaphthylene	**88**	J	100	8.2	ug/L		03/28/19 08:48	03/29/19 09:23	10
Anthracene	100	U	100	6.3	ug/L		03/28/19 08:48	03/29/19 09:23	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/28/19 08:48	03/29/19 09:23	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/28/19 08:48	03/29/19 09:23	10
Benzo[b]fluoranthene	20	U	20	11	ug/L		03/28/19 08:48	03/29/19 09:23	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		03/28/19 08:48	03/29/19 09:23	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/28/19 08:48	03/29/19 09:23	10
Chrysene	20	U	20	9.1	ug/L		03/28/19 08:48	03/29/19 09:23	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		03/28/19 08:48	03/29/19 09:23	10
Fluoranthene	100	U	100	8.4	ug/L		03/28/19 08:48	03/29/19 09:23	10
Fluorene	**20**	J	100	9.1	ug/L		03/28/19 08:48	03/29/19 09:23	10
Indeno[1,2,3-cd]pyrene	20	U	20	13	ug/L		03/28/19 08:48	03/29/19 09:23	10
Naphthalene	**1200**		100	11	ug/L		03/28/19 08:48	03/29/19 09:23	10
Phenanthrene	**17**	J	100	5.8	ug/L		03/28/19 08:48	03/29/19 09:23	10
Pyrene	100	U	100	16	ug/L		03/28/19 08:48	03/29/19 09:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*83*		*45 - 107*	*03/28/19 08:48*	*03/29/19 09:23*	*10*
Nitrobenzene-d5 (Surr)	*93*		*51 - 108*	*03/28/19 08:48*	*03/29/19 09:23*	*10*
Terphenyl-d14 (Surr)	*110*		*40 - 148*	*03/28/19 08:48*	*03/29/19 09:23*	*10*

Client Sample ID: HIMW-05D

Date Collected: 03/25/19 07:15
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.75**	J	1.0	0.43	ug/L			03/30/19 06:14	1
Ethylbenzene	**2.1**		1.0	0.30	ug/L			03/30/19 06:14	1
Toluene	**12**		1.0	0.38	ug/L			03/30/19 06:14	1
Xylenes, Total	**150**		2.0	0.30	ug/L			03/30/19 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*74 - 132*		*03/30/19 06:14*	*1*
4-Bromofluorobenzene	*101*		*77 - 124*		*03/30/19 06:14*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*03/30/19 06:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/30/19 06:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**260**		100	11	ug/L		03/28/19 08:48	03/29/19 09:44	10
Acenaphthene	100	U	100	11	ug/L		03/28/19 08:48	03/29/19 09:44	10
Acenaphthylene	**100**		100	8.2	ug/L		03/28/19 08:48	03/29/19 09:44	10
Anthracene	100	U	100	6.3	ug/L		03/28/19 08:48	03/29/19 09:44	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/28/19 08:48	03/29/19 09:44	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/28/19 08:48	03/29/19 09:44	10
Benzo[b]fluoranthene	20	U	20	11	ug/L		03/28/19 08:48	03/29/19 09:44	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		03/28/19 08:48	03/29/19 09:44	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/28/19 08:48	03/29/19 09:44	10
Chrysene	20	U	20	9.1	ug/L		03/28/19 08:48	03/29/19 09:44	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		03/28/19 08:48	03/29/19 09:44	10
Fluoranthene	100	U	100	8.4	ug/L		03/28/19 08:48	03/29/19 09:44	10
Fluorene	**22**	J	100	9.1	ug/L		03/28/19 08:48	03/29/19 09:44	10
Indeno[1,2,3-cd]pyrene	20	U	20	13	ug/L		03/28/19 08:48	03/29/19 09:44	10
Naphthalene	**1200**		100	11	ug/L		03/28/19 08:48	03/29/19 09:44	10
Phenanthrene	100	U	100	5.8	ug/L		03/28/19 08:48	03/29/19 09:44	10
Pyrene	100	U	100	16	ug/L		03/28/19 08:48	03/29/19 09:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*45 - 107*	*03/28/19 08:48*	*03/29/19 09:44*	*10*
Nitrobenzene-d5 (Surr)	*86*		*51 - 108*	*03/28/19 08:48*	*03/29/19 09:44*	*10*
Terphenyl-d14 (Surr)	*95*		*40 - 148*	*03/28/19 08:48*	*03/29/19 09:44*	*10*

Client Sample ID: HIMW-05S

Date Collected: 03/26/19 07:35
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			03/30/19 04:53	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/30/19 04:53	1
Toluene	1.0	U	1.0	0.38	ug/L			03/30/19 04:53	1
Xylenes, Total	2.0	U	2.0	0.30	ug/L			03/30/19 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*03/30/19 04:53*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*03/30/19 04:53*	*1*
Dibromofluoromethane (Surr)	*111*		*72 - 131*		*03/30/19 04:53*	*1*

Client Sample ID: HIMW-05S

Date Collected: 03/26/19 07:35
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/30/19 04:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/28/19 08:48	03/28/19 21:31	1
Acenaphthene	10	U	10	1.1	ug/L		03/28/19 08:48	03/28/19 21:31	1
Acenaphthylene	10	U	10	0.82	ug/L		03/28/19 08:48	03/28/19 21:31	1
Anthracene	10	U	10	0.63	ug/L		03/28/19 08:48	03/28/19 21:31	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/28/19 08:48	03/28/19 21:31	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/28/19 08:48	03/28/19 21:31	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		03/28/19 08:48	03/28/19 21:31	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/28/19 08:48	03/28/19 21:31	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/28/19 08:48	03/28/19 21:31	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/28/19 08:48	03/28/19 21:31	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/28/19 08:48	03/28/19 21:31	1
Fluoranthene	10	U	10	0.84	ug/L		03/28/19 08:48	03/28/19 21:31	1
Fluorene	10	U	10	0.91	ug/L		03/28/19 08:48	03/28/19 21:31	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		03/28/19 08:48	03/28/19 21:31	1
Naphthalene	10	U	10	1.1	ug/L		03/28/19 08:48	03/28/19 21:31	1
Phenanthrene	10	U	10	0.58	ug/L		03/28/19 08:48	03/28/19 21:31	1
Pyrene	10	U	10	1.6	ug/L		03/28/19 08:48	03/28/19 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*85*		*45 - 107*	*03/28/19 08:48*	*03/28/19 21:31*	*1*
Nitrobenzene-d5 (Surr)	*108*		*51 - 108*	*03/28/19 08:48*	*03/28/19 21:31*	*1*
Terphenyl-d14 (Surr)	*117*		*40 - 148*	*03/28/19 08:48*	*03/28/19 21:31*	*1*

Client Sample ID: HIMW-05I

Date Collected: 03/26/19 06:50
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.65**	J	1.0	0.43	ug/L			03/30/19 05:20	1
Ethylbenzene	**2.1**		1.0	0.30	ug/L			03/30/19 05:20	1
Toluene	1.0	U	1.0	0.38	ug/L			03/30/19 05:20	1
Xylenes, Total	**50**		2.0	0.30	ug/L			03/30/19 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*		*03/30/19 05:20*	*1*
4-Bromofluorobenzene	*104*		*77 - 124*		*03/30/19 05:20*	*1*
Dibromofluoromethane (Surr)	*112*		*72 - 131*		*03/30/19 05:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/30/19 05:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**180**		100	11	ug/L		03/28/19 08:48	03/29/19 10:05	10
Acenaphthene	**14**	J	100	11	ug/L		03/28/19 08:48	03/29/19 10:05	10
Acenaphthylene	**160**		100	8.2	ug/L		03/28/19 08:48	03/29/19 10:05	10
Anthracene	100	U	100	6.3	ug/L		03/28/19 08:48	03/29/19 10:05	10

Client Sample ID: HIMW-05I
Date Collected: 03/26/19 06:50
Date Received: 03/26/19 19:00

Lab Sample ID: 460-178131-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/28/19 08:48	03/29/19 10:05	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/28/19 08:48	03/29/19 10:05	10
Benzo[b]fluoranthene	20	U	20	11	ug/L		03/28/19 08:48	03/29/19 10:05	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		03/28/19 08:48	03/29/19 10:05	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/28/19 08:48	03/29/19 10:05	10
Chrysene	20	U	20	9.1	ug/L		03/28/19 08:48	03/29/19 10:05	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		03/28/19 08:48	03/29/19 10:05	10
Fluoranthene	100	U	100	8.4	ug/L		03/28/19 08:48	03/29/19 10:05	10
Fluorene	**36**	J	100	9.1	ug/L		03/28/19 08:48	03/29/19 10:05	10
Indeno[1,2,3-cd]pyrene	20	U	20	13	ug/L		03/28/19 08:48	03/29/19 10:05	10
Naphthalene	**1000**		100	11	ug/L		03/28/19 08:48	03/29/19 10:05	10
Phenanthrene	**23**	J	100	5.8	ug/L		03/28/19 08:48	03/29/19 10:05	10
Pyrene	100	U	100	16	ug/L		03/28/19 08:48	03/29/19 10:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*45 - 107*	*03/28/19 08:48*	*03/29/19 10:05*	*10*
Nitrobenzene-d5 (Surr)	*91*		*51 - 108*	*03/28/19 08:48*	*03/29/19 10:05*	*10*
Terphenyl-d14 (Surr)	*108*		*40 - 148*	*03/28/19 08:48*	*03/29/19 10:05*	*10*

TestAmerica New York City

47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica
TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 3/25/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler: RS
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Downstate	☐ 1 week		NYC 222	
Site: Hempstead Intersection	☐ 2 days			Job / SDG No.: 178131
P O # 1702897.30.1	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB032519	3/25/19	—	G	GW	2			X		1
HIMW-26I	↓	7:40	↓	↓	5			X	X	2
HIMW-26D	↓	6:35	↓	↓	5			X	X	3
HIMW-05D	↓	715	↓	↓	5			X	X	4
HIMW-05S	3/26/19	735	↓	↓	5			X	X	5
HIMW-05I	↓	650	↓	↓	5			X	X	6

460-178131 Chain of Custody

5-Day RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd:		Therm ID No.:
Relinquished by: [signature]	Company: GEI Consultants Inc. P.C	Date/Time: 3/25/19	Received by: [signature]	Company: TA	Date/Time: 3/26/19 1447
Relinquished by: [signature]	Company: TA	Date/Time: 3/26/19	Received by: [signature]	Company: TA	Date/Time: 3/26/19 1700
Relinquished by: [signature]	Company: TA	Date/Time: 3/26/19 [illegible]	Received in Laboratory by: [signature]	Company: TA	Date/Time: 3/26/19 1900

3.5 / 3.5 IR#9

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Client Sample ID: TB091719

Date Collected: 09/17/19 14:10
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 12:33	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 12:33	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 12:33	1
Xylenes, Total	0.66	J	2.0	0.65	ug/L			09/20/19 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*		*09/20/19 12:33*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*09/20/19 12:33*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*09/20/19 12:33*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/20/19 12:33*	*1*

Client Sample ID: HIMW-28S

Date Collected: 09/17/19 09:15
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.1		1.0	0.20	ug/L			09/20/19 15:13	1
Ethylbenzene	76		1.0	0.30	ug/L			09/20/19 15:13	1
Toluene	1.5	J	1.0	0.38	ug/L			09/20/19 15:13	1
Xylenes, Total	4.8	U	2.0	0.65	ug/L			09/20/19 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*09/20/19 15:13*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*09/20/19 15:13*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*09/20/19 15:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/20/19 15:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	19		10	1.1	ug/L		09/19/19 09:14	09/20/19 01:24	1
Acenaphthene	21		10	1.1	ug/L		09/19/19 09:14	09/20/19 01:24	1
Acenaphthylene	2.1	J	10	0.82	ug/L		09/19/19 09:14	09/20/19 01:24	1
Anthracene	3.7	J	10	0.63	ug/L		09/19/19 09:14	09/20/19 01:24	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 01:24	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 01:24	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 01:24	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 01:24	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 01:24	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 01:24	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 01:24	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 01:24	1
Fluorene	20		10	0.91	ug/L		09/19/19 09:14	09/20/19 01:24	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 01:24	1
Naphthalene	150		10	1.1	ug/L		09/19/19 09:14	09/20/19 01:24	1
Phenanthrene	23		10	0.58	ug/L		09/19/19 09:14	09/20/19 01:24	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*45 - 107*	*09/19/19 09:14*	*09/20/19 01:24*	*1*
Nitrobenzene-d5 (Surr)	*90*		*51 - 108*	*09/19/19 09:14*	*09/20/19 01:24*	*1*

9/30/19

Client Sample ID: HIMW-28S

Date Collected: 09/17/19 09:15
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*73*		*40 - 148*	*09/19/19 09:14*	*09/20/19 01:24*	*1*

Client Sample ID: HIMW-28I

Date Collected: 09/17/19 08:20
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 13:19	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 13:19	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 13:19	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*74 - 132*		*09/20/19 13:19*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/20/19 13:19*	*1*
Dibromofluoromethane (Surr)	*103*		*72 - 131*		*09/20/19 13:19*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/20/19 13:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 00:21	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 00:21	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 00:21	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 00:21	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 00:21	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 00:21	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 00:21	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 00:21	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 00:21	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 00:21	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 00:21	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 00:21	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 00:21	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 00:21	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 00:21	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 00:21	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*45 - 107*	*09/19/19 09:14*	*09/20/19 00:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*51 - 108*	*09/19/19 09:14*	*09/20/19 00:21*	*1*
Terphenyl-d14 (Surr)	*70*		*40 - 148*	*09/19/19 09:14*	*09/20/19 00:21*	*1*

Client Sample ID: HIMW-27S

Date Collected: 09/17/19 09:05
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8.2**		2.0	0.41	ug/L			09/20/19 18:40	2

Client Sample ID: HIMW-27S

Date Collected: 09/17/19 09:05
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	500		2.0	0.60	ug/L			09/20/19 18:40	2
Toluene	20		2.0	0.76	ug/L			09/20/19 18:40	2
Xylenes, Total	550		4.0	1.3	ug/L			09/20/19 18:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*74 - 132*		*09/20/19 18:40*	*2*
4-Bromofluorobenzene	*92*		*77 - 124*		*09/20/19 18:40*	*2*
Dibromofluoromethane (Surr)	*98*		*72 - 131*		*09/20/19 18:40*	*2*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/20/19 18:40*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	270		250	27	ug/L		09/19/19 09:14	09/20/19 08:02	25
Acenaphthene	61	J	250	27	ug/L		09/19/19 09:14	09/20/19 08:02	25
Acenaphthylene	250	U	250	21	ug/L		09/19/19 09:14	09/20/19 08:02	25
Anthracene	250	U	250	16	ug/L		09/19/19 09:14	09/20/19 08:02	25
Benzo[a]anthracene	25	U	25	15	ug/L		09/19/19 09:14	09/20/19 08:02	25
Benzo[a]pyrene	25	U	25	10	ug/L		09/19/19 09:14	09/20/19 08:02	25
Benzo[b]fluoranthene	50	U	50	29	ug/L		09/19/19 09:14	09/20/19 08:02	25
Benzo[g,h,i]perylene	250	U	250	36	ug/L		09/19/19 09:14	09/20/19 08:02	25
Benzo[k]fluoranthene	25	U	25	17	ug/L		09/19/19 09:14	09/20/19 08:02	25
Chrysene	50	U	50	23	ug/L		09/19/19 09:14	09/20/19 08:02	25
Dibenz(a,h)anthracene	25	U	25	18	ug/L		09/19/19 09:14	09/20/19 08:02	25
Fluoranthene	250	U	250	21	ug/L		09/19/19 09:14	09/20/19 08:02	25
Fluorene	32	J	250	23	ug/L		09/19/19 09:14	09/20/19 08:02	25
Indeno[1,2,3-cd]pyrene	50	U	50	32	ug/L		09/19/19 09:14	09/20/19 08:02	25
Naphthalene	930		250	28	ug/L		09/19/19 09:14	09/20/19 08:02	25
Phenanthrene	32	J	250	15	ug/L		09/19/19 09:14	09/20/19 08:02	25
Pyrene	250	U	250	41	ug/L		09/19/19 09:14	09/20/19 08:02	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*45 - 107*	*09/19/19 09:14*	*09/20/19 08:02*	*25*
Nitrobenzene-d5 (Surr)	*74*		*51 - 108*	*09/19/19 09:14*	*09/20/19 08:02*	*25*
Terphenyl-d14 (Surr)	*58*		*40 - 148*	*09/19/19 09:14*	*09/20/19 08:02*	*25*

Client Sample ID: HIMW-27I

Date Collected: 09/17/19 09:50
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 05:07	1
Ethylbenzene	~~0.38~~ ~~J~~ 1.0U		1.0	0.30	ug/L			09/21/19 05:07	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 05:07	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/19 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*74 - 132*		*09/21/19 05:07*	*1*
4-Bromofluorobenzene	*93*		*77 - 124*		*09/21/19 05:07*	*1*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*09/21/19 05:07*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/21/19 05:07*	*1*

Client Sample ID: HIMW-27I

Date Collected: 09/17/19 09:50
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 02:06	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 02:06	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 02:06	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 02:06	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 02:06	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 02:06	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 02:06	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 02:06	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 02:06	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 02:06	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 02:06	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 02:06	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 02:06	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 02:06	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 02:06	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 02:06	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*45 - 107*	*09/19/19 09:14*	*09/20/19 02:06*	*1*
Nitrobenzene-d5 (Surr)	*87*		*51 - 108*	*09/19/19 09:14*	*09/20/19 02:06*	*1*
Terphenyl-d14 (Surr)	*80*		*40 - 148*	*09/19/19 09:14*	*09/20/19 02:06*	*1*

Client Sample ID: Dup-01

Date Collected: 09/17/19 00:00
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.6	J	1.0	0.20	ug/L			09/22/19 17:33	1
Ethylbenzene	74		1.0	0.30	ug/L			09/22/19 17:33	1
Toluene	1.4	J	1.0	0.38	ug/L			09/22/19 17:33	1
Xylenes, Total	6.1	U	2.0	0.65	ug/L			09/22/19 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 132*		*09/22/19 17:33*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*09/22/19 17:33*	*1*
Dibromofluoromethane (Surr)	*98*		*72 - 131*		*09/22/19 17:33*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/22/19 17:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	18		10	1.1	ug/L		09/19/19 09:14	09/20/19 02:27	1
Acenaphthene	21		10	1.1	ug/L		09/19/19 09:14	09/20/19 02:27	1
Acenaphthylene	2.0	J	10	0.82	ug/L		09/19/19 09:14	09/20/19 02:27	1
Anthracene	3.6	J	10	0.63	ug/L		09/19/19 09:14	09/20/19 02:27	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 02:27	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 02:27	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 02:27	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 02:27	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 02:27	1

Client Sample ID: Dup-01

Date Collected: 09/17/19 00:00
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 02:27	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 02:27	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 02:27	1
Fluorene	**20**		10	0.91	ug/L		09/19/19 09:14	09/20/19 02:27	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 02:27	1
Naphthalene	**150**		10	1.1	ug/L		09/19/19 09:14	09/20/19 02:27	1
Phenanthrene	**23**		10	0.58	ug/L		09/19/19 09:14	09/20/19 02:27	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*45 - 107*	*09/19/19 09:14*	*09/20/19 02:27*	*1*
Nitrobenzene-d5 (Surr)	*85*		*51 - 108*	*09/19/19 09:14*	*09/20/19 02:27*	*1*
Terphenyl-d14 (Surr)	*71*		*40 - 148*	*09/19/19 09:14*	*09/20/19 02:27*	*1*

Client Sample ID: FB091719

Date Collected: 09/17/19 09:20
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 12:56	1
Ethylbenzene	**0.39**	J	1.0	0.30	ug/L			09/20/19 12:56	1
Toluene	**0.44**	J	1.0	0.38	ug/L			09/20/19 12:56	1
Xylenes, Total	**3.1**		2.0	0.65	ug/L			09/20/19 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*74 - 132*		*09/20/19 12:56*	*1*
4-Bromofluorobenzene	*101*		*77 - 124*		*09/20/19 12:56*	*1*
Dibromofluoromethane (Surr)	*106*		*72 - 131*		*09/20/19 12:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/20/19 12:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 02:47	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 02:47	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 02:47	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 02:47	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 02:47	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 02:47	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 02:47	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 02:47	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 02:47	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 02:47	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 02:47	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 02:47	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 02:47	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 02:47	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 02:47	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 02:47	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 02:47	1

Client Sample ID: FB091719

Date Collected: 09/17/19 09:20
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		45 - 107	09/19/19 09:14	09/20/19 02:47	1
Nitrobenzene-d5 (Surr)	92		51 - 108	09/19/19 09:14	09/20/19 02:47	1
Terphenyl-d14 (Surr)	92		40 - 148	09/19/19 09:14	09/20/19 02:47	1

Client Sample ID: HIMW-12S

Date Collected: 09/17/19 10:55
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 15:59	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 15:59	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 15:59	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		74 - 132		09/20/19 15:59	1
4-Bromofluorobenzene	102		77 - 124		09/20/19 15:59	1
Dibromofluoromethane (Surr)	109		72 - 131		09/20/19 15:59	1
Toluene-d8 (Surr)	105		80 - 120		09/20/19 15:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:08	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:08	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 03:08	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 03:08	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 03:08	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 03:08	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 03:08	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 03:08	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 03:08	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 03:08	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 03:08	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 03:08	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 03:08	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 03:08	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:08	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 03:08	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		45 - 107	09/19/19 09:14	09/20/19 03:08	1
Nitrobenzene-d5 (Surr)	81		51 - 108	09/19/19 09:14	09/20/19 03:08	1
Terphenyl-d14 (Surr)	72		40 - 148	09/19/19 09:14	09/20/19 03:08	1

Client Sample ID: HIMW-24

Date Collected: 09/17/19 11:45
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.7**		1.0	0.20	ug/L			09/20/19 16:22	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 16:22	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 16:22	1
Xylenes, Total	**3.9**	U	2.0	0.65	ug/L			09/20/19 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*09/20/19 16:22*	*1*
4-Bromofluorobenzene	*102*		*77 - 124*		*09/20/19 16:22*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*09/20/19 16:22*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/20/19 16:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2.0**	J	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:29	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:29	1
Acenaphthylene	**0.91**	J	10	0.82	ug/L		09/19/19 09:14	09/20/19 03:29	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 03:29	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 03:29	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 03:29	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 03:29	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 03:29	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 03:29	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 03:29	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 03:29	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 03:29	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 03:29	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 03:29	1
Naphthalene	**45**		10	1.1	ug/L		09/19/19 09:14	09/20/19 03:29	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 03:29	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*45 - 107*	*09/19/19 09:14*	*09/20/19 03:29*	*1*
Nitrobenzene-d5 (Surr)	*78*		*51 - 108*	*09/19/19 09:14*	*09/20/19 03:29*	*1*
Terphenyl-d14 (Surr)	*77*		*40 - 148*	*09/19/19 09:14*	*09/20/19 03:29*	*1*

Client Sample ID: HIMW-25

Date Collected: 09/17/19 13:00
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 16:45	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 16:45	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 16:45	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*09/20/19 16:45*	*1*
4-Bromofluorobenzene	*101*		*77 - 124*		*09/20/19 16:45*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*09/20/19 16:45*	*1*

Client Sample ID: HIMW-25

Date Collected: 09/17/19 13:00
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/20/19 16:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:50	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:50	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 03:50	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 03:50	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 03:50	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 03:50	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 03:50	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 03:50	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 03:50	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 03:50	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 03:50	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 03:50	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 03:50	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 03:50	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 03:50	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 03:50	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		45 - 107	09/19/19 09:14	09/20/19 03:50	1
Nitrobenzene-d5 (Surr)	93		51 - 108	09/19/19 09:14	09/20/19 03:50	1
Terphenyl-d14 (Surr)	88		40 - 148	09/19/19 09:14	09/20/19 03:50	1

Client Sample ID: HIMW-23

Date Collected: 09/17/19 14:10
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 17:08	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 17:08	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 17:08	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		74 - 132		09/20/19 17:08	1
4-Bromofluorobenzene	103		77 - 124		09/20/19 17:08	1
Dibromofluoromethane (Surr)	108		72 - 131		09/20/19 17:08	1
Toluene-d8 (Surr)	100		80 - 120		09/20/19 17:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:11	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:11	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 04:11	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 04:11	1

Client Sample ID: HIMW-23
Date Collected: 09/17/19 14:10
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 04:11	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 04:11	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 04:11	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 04:11	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 04:11	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 04:11	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 04:11	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 04:11	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 04:11	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 04:11	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:11	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 04:11	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*45 - 107*	*09/19/19 09:14*	*09/20/19 04:11*	*1*
Nitrobenzene-d5 (Surr)	*85*		*51 - 108*	*09/19/19 09:14*	*09/20/19 04:11*	*1*
Terphenyl-d14 (Surr)	*77*		*40 - 148*	*09/19/19 09:14*	*09/20/19 04:11*	*1*

Client Sample ID: HIMW-08S
Date Collected: 09/17/19 11:30
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.66	J	1.0	0.20	ug/L			09/21/19 06:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 06:16	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 06:16	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/19 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*		*09/21/19 06:16*	*1*
4-Bromofluorobenzene	*103*		*77 - 124*		*09/21/19 06:16*	*1*
Dibromofluoromethane (Surr)	*107*		*72 - 131*		*09/21/19 06:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/21/19 06:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 07:41	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 07:41	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 07:41	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 07:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 07:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 07:41	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 07:41	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 07:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 07:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 07:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 07:41	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 07:41	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 07:41	1

Client Sample ID: HIMW-08S

Date Collected: 09/17/19 11:30
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-12
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 07:41	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 07:41	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 07:41	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*45 - 107*	*09/19/19 09:14*	*09/20/19 07:41*	*1*
Nitrobenzene-d5 (Surr)	*93*		*51 - 108*	*09/19/19 09:14*	*09/20/19 07:41*	*1*
Terphenyl-d14 (Surr)	*71*		*40 - 148*	*09/19/19 09:14*	*09/20/19 07:41*	*1*

Client Sample ID: HIMW-08I

Date Collected: 09/17/19 12:45
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 17:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 17:31	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 17:31	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*74 - 132*		*09/20/19 17:31*	*1*
4-Bromofluorobenzene	*87*		*77 - 124*		*09/20/19 17:31*	*1*
Dibromofluoromethane (Surr)	*91*		*72 - 131*		*09/20/19 17:31*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*09/20/19 17:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:32	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:32	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 04:32	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 04:32	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 04:32	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 04:32	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 04:32	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 04:32	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 04:32	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 04:32	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 04:32	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 04:32	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 04:32	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 04:32	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:32	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 04:32	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*45 - 107*	*09/19/19 09:14*	*09/20/19 04:32*	*1*
Nitrobenzene-d5 (Surr)	*85*		*51 - 108*	*09/19/19 09:14*	*09/20/19 04:32*	*1*
Terphenyl-d14 (Surr)	*84*		*40 - 148*	*09/19/19 09:14*	*09/20/19 04:32*	*1*

Client Sample ID: HIMW-08D

Date Collected: 09/17/19 13:45
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 17:54	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 17:54	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 17:54	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*09/20/19 17:54*	*1*
4-Bromofluorobenzene	*102*		*77 - 124*		*09/20/19 17:54*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*09/20/19 17:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/20/19 17:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:53	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:53	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 04:53	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 04:53	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 04:53	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 04:53	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 04:53	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 04:53	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 04:53	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 04:53	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 04:53	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 04:53	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 04:53	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 04:53	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 04:53	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 04:53	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*45 - 107*	*09/19/19 09:14*	*09/20/19 04:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*51 - 108*	*09/19/19 09:14*	*09/20/19 04:53*	*1*
Terphenyl-d14 (Surr)	*74*		*40 - 148*	*09/19/19 09:14*	*09/20/19 04:53*	*1*

Client Sample ID: HIMW-22

Date Collected: 09/17/19 15:10
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 18:17	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 18:17	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 18:17	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*09/20/19 18:17*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*09/20/19 18:17*	*1*
Dibromofluoromethane (Surr)	*101*		*72 - 131*		*09/20/19 18:17*	*1*

Client Sample ID: HIMW-22
Date Collected: 09/17/19 15:10
Date Received: 09/17/19 19:40

Lab Sample ID: 460-191558-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/20/19 18:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 05:14	1
Acenaphthene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 05:14	1
Acenaphthylene	10	U	10	0.82	ug/L		09/19/19 09:14	09/20/19 05:14	1
Anthracene	10	U	10	0.63	ug/L		09/19/19 09:14	09/20/19 05:14	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/19/19 09:14	09/20/19 05:14	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/19/19 09:14	09/20/19 05:14	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/19/19 09:14	09/20/19 05:14	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/19/19 09:14	09/20/19 05:14	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/19/19 09:14	09/20/19 05:14	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/19/19 09:14	09/20/19 05:14	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/19/19 09:14	09/20/19 05:14	1
Fluoranthene	10	U	10	0.84	ug/L		09/19/19 09:14	09/20/19 05:14	1
Fluorene	10	U	10	0.91	ug/L		09/19/19 09:14	09/20/19 05:14	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/19/19 09:14	09/20/19 05:14	1
Naphthalene	10	U	10	1.1	ug/L		09/19/19 09:14	09/20/19 05:14	1
Phenanthrene	10	U	10	0.58	ug/L		09/19/19 09:14	09/20/19 05:14	1
Pyrene	10	U	10	1.6	ug/L		09/19/19 09:14	09/20/19 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		45 - 107	09/19/19 09:14	09/20/19 05:14	1
Nitrobenzene-d5 (Surr)	88		51 - 108	09/19/19 09:14	09/20/19 05:14	1
Terphenyl-d14 (Surr)	85		40 - 148	09/19/19 09:14	09/20/19 05:14	1

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/17/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 2 COCs
110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler: RS GV
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Downstate	☐ 1 week			
Site: Hempstead Intersection	☐ 2 days			Job / SDG No.: 91558
P O # 1702897.30.1	☐ 1 day			

NYC 222

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB091719	9/17/19	—	G	GW	2			X		1
HIMW-28S		915			5			X	X	2
HIMW-28I		820			15			X	X	MS/MSD 3
HIMW-27S		905			5			X	X	4
HIMW-27I		950			5			X	X	5
Dup-01		—			5			X	X	6
FB091719		920			5			X	X	7
HIMW-12S		10:55			5			X	X	8
HIMW-24		1145			5			X	X	9
HIMW-25		1300			5			X	X	10
HIMW-23		1410			5			X	X	11
HIMW-08S	↓	1130	↓	↓	5			X	X	12

5-Day RUSH

460-191558 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: [signature]	Company: GEI Consultants Inc. P.C.	Date/Time:	Received by: [signature]	Company:	Date/Time: 1550
Relinquished by: [signature]	Company:	Date/Time: 9/17/19 1600	Received by: [signature]	Company:	Date/Time: 9/17/19 1700
Relinquished by: [signature]	Company:	Date/Time: 9/17/19 17:40	Received in Laboratory by:	Company: TA	Date/Time: 9/17/19 1940

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

2.2/2.2 2.5/2.5 KNH9

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/17/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	2 of 2 COCs
110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler: RS, GV
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Downstate	☐ 1 week			Job / SDG No.: 191558
Site: Hempstead Interaection	☐ 2 days			
P O # 1702897.30.1	☐ 1 day			

NYC 222

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
HIMW-08I	9/17/19	1245	G	GW	5			X	X	13
HIMW-080	↓	1345	↓	↓	5			X	X	14
HIMW-22	↓	1510	↓	↓	5			X	X	15

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GEI Consultants Inc. P.C	Date/Time:	Received by:	Company:	Date/Time: 9/17/19 1537
Relinquished by:	Company:	Date/Time: 9/17/19 1730	Received by:	Company:	Date/Time: 9/17/19 1720
Relinquished by:	Company:	Date/Time: 9/17/19 1842	Received in Laboratory by:	Company:	Date/Time: 9/17/19 1920

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: National Grid - Downstate Hempstead

Job ID: 460-191678-1

Client Sample ID: TB091819

Date Collected: 09/18/19 00:00
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 23:49	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 23:49	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 23:49	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*		*09/20/19 23:49*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/20/19 23:49*	*1*
Dibromofluoromethane (Surr)	*96*		*72 - 131*		*09/20/19 23:49*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/20/19 23:49*	*1*

Client Sample ID: HIMW-14I

Date Collected: 09/18/19 08:20
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**		1.0	0.20	ug/L			09/20/19 13:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 13:56	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 13:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*09/20/19 13:56*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*09/20/19 13:56*	*1*
Dibromofluoromethane (Surr)	*94*		*72 - 131*		*09/20/19 13:56*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/20/19 13:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 20:37	1
Acenaphthene	**1.8**	J	10	1.1	ug/L		09/20/19 08:42	09/20/19 20:37	1
Acenaphthylene	**2.8**	J	10	0.82	ug/L		09/20/19 08:42	09/20/19 20:37	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 20:37	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 20:37	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 20:37	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 20:37	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 20:37	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 20:37	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 20:37	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 20:37	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 20:37	1
Fluorene	**1.1**	J	10	0.91	ug/L		09/20/19 08:42	09/20/19 20:37	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 20:37	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 20:37	1
Phenanthrene	**1.4**	J	10	0.58	ug/L		09/20/19 08:42	09/20/19 20:37	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*45 - 107*	*09/20/19 08:42*	*09/20/19 20:37*	*1*
Nitrobenzene-d5 (Surr)	*81*		*51 - 108*	*09/20/19 08:42*	*09/20/19 20:37*	*1*

9/26/19

Client Sample ID: HIMW-14I

Date Collected: 09/18/19 08:20
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	80		40 - 148	09/20/19 08:42	09/20/19 20:37	1

Client Sample ID: HIMW-14D

Date Collected: 09/18/19 09:15
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.25	J	1.0	0.20	ug/L			09/20/19 14:21	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 14:21	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 14:21	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		74 - 132		09/20/19 14:21	1
4-Bromofluorobenzene	101		77 - 124		09/20/19 14:21	1
Dibromofluoromethane (Surr)	96		72 - 131		09/20/19 14:21	1
Toluene-d8 (Surr)	94		80 - 120		09/20/19 14:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 20:59	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 20:59	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 20:59	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 20:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 20:59	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 20:59	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 20:59	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 20:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 20:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 20:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 20:59	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 20:59	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 20:59	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 20:59	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 20:59	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 20:59	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		45 - 107	09/20/19 08:42	09/20/19 20:59	1
Nitrobenzene-d5 (Surr)	89		51 - 108	09/20/19 08:42	09/20/19 20:59	1
Terphenyl-d14 (Surr)	78		40 - 148	09/20/19 08:42	09/20/19 20:59	1

Client Sample ID: HIMW-15I

Date Collected: 09/18/19 14:40
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.52	J	1.0	0.20	ug/L			09/20/19 14:46	1

Client Sample ID: HIMW-15I

Date Collected: 09/18/19 14:40
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 14:46	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 14:46	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 132*		*09/20/19 14:46*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/20/19 14:46*	*1*
Dibromofluoromethane (Surr)	*96*		*72 - 131*		*09/20/19 14:46*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/20/19 14:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 21:19	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 21:19	1
Acenaphthylene	**2.0**	**J**	10	0.82	ug/L		09/20/19 08:42	09/20/19 21:19	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 21:19	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 21:19	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 21:19	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 21:19	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 21:19	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 21:19	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 21:19	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 21:19	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 21:19	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 21:19	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 21:19	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 21:19	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 21:19	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*45 - 107*	*09/20/19 08:42*	*09/20/19 21:19*	*1*
Nitrobenzene-d5 (Surr)	*90*		*51 - 108*	*09/20/19 08:42*	*09/20/19 21:19*	*1*
Terphenyl-d14 (Surr)	*62*		*40 - 148*	*09/20/19 08:42*	*09/20/19 21:19*	*1*

Client Sample ID: HIMW-15D

Date Collected: 09/18/19 13:50
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 01:29	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 01:29	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 01:29	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/19 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*		*09/21/19 01:29*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*09/21/19 01:29*	*1*
Dibromofluoromethane (Surr)	*95*		*72 - 131*		*09/21/19 01:29*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/21/19 01:29*	*1*

Client Sample ID: HIMW-15D

Date Collected: 09/18/19 13:50
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 21:40	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 21:40	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 21:40	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 21:40	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 21:40	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 21:40	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 21:40	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 21:40	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 21:40	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 21:40	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 21:40	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 21:40	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 21:40	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 21:40	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 21:40	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 21:40	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*45 - 107*	*09/20/19 08:42*	*09/20/19 21:40*	*1*
Nitrobenzene-d5 (Surr)	*51*		*51 - 108*	*09/20/19 08:42*	*09/20/19 21:40*	*1*
Terphenyl-d14 (Surr)	*44*		*40 - 148*	*09/20/19 08:42*	*09/20/19 21:40*	*1*

Client Sample ID: HIMW-13S

Date Collected: 09/18/19 12:30
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 15:11	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 15:11	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 15:11	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*74 - 132*		*09/20/19 15:11*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/20/19 15:11*	*1*
Dibromofluoromethane (Surr)	*96*		*72 - 131*		*09/20/19 15:11*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/20/19 15:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:01	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:01	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 22:01	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 22:01	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 22:01	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 22:01	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 22:01	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 22:01	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 22:01	1

Client Sample ID: HIMW-13S

Date Collected: 09/18/19 12:30
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 22:01	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 22:01	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 22:01	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 22:01	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 22:01	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:01	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 22:01	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*45 - 107*	*09/20/19 08:42*	*09/20/19 22:01*	*1*
Nitrobenzene-d5 (Surr)	*88*		*51 - 108*	*09/20/19 08:42*	*09/20/19 22:01*	*1*
Terphenyl-d14 (Surr)	*78*		*40 - 148*	*09/20/19 08:42*	*09/20/19 22:01*	*1*

Client Sample ID: HIMW-13I

Date Collected: 09/18/19 11:10
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 13:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 13:31	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 13:31	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*		*09/20/19 13:31*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*09/20/19 13:31*	*1*
Dibromofluoromethane (Surr)	*96*		*72 - 131*		*09/20/19 13:31*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/20/19 13:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 19:35	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 19:35	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 19:35	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 19:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 19:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 19:35	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 19:35	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 19:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 19:35	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 19:35	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 19:35	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 19:35	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 19:35	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 19:35	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 19:35	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 19:35	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 19:35	1

Client Sample ID: HIMW-13I

Date Collected: 09/18/19 11:10
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		45 - 107	09/20/19 08:42	09/20/19 19:35	1
Nitrobenzene-d5 (Surr)	85		51 - 108	09/20/19 08:42	09/20/19 19:35	1
Terphenyl-d14 (Surr)	82		40 - 148	09/20/19 08:42	09/20/19 19:35	1

Client Sample ID: HIMW-13D

Date Collected: 09/18/19 08:40
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.90**	**J**	1.0	0.20	ug/L			09/20/19 15:36	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 15:36	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 15:36	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		74 - 132		09/20/19 15:36	1
4-Bromofluorobenzene	100		77 - 124		09/20/19 15:36	1
Dibromofluoromethane (Surr)	97		72 - 131		09/20/19 15:36	1
Toluene-d8 (Surr)	93		80 - 120		09/20/19 15:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:22	1
Acenaphthene	**4.1**	**J**	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:22	1
Acenaphthylene	**7.2**	**J**	10	0.82	ug/L		09/20/19 08:42	09/20/19 22:22	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 22:22	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 22:22	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 22:22	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 22:22	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 22:22	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 22:22	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 22:22	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 22:22	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 22:22	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 22:22	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 22:22	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:22	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 22:22	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		45 - 107	09/20/19 08:42	09/20/19 22:22	1
Nitrobenzene-d5 (Surr)	83		51 - 108	09/20/19 08:42	09/20/19 22:22	1
Terphenyl-d14 (Surr)	65		40 - 148	09/20/19 08:42	09/20/19 22:22	1

Client Sample ID: DUP-02

Date Collected: 09/18/19 00:00
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 01:54	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 01:54	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 01:54	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/19 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*09/21/19 01:54*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*09/21/19 01:54*	*1*
Dibromofluoromethane (Surr)	*93*		*72 - 131*		*09/21/19 01:54*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/21/19 01:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:43	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:43	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 22:43	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 22:43	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 22:43	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 22:43	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 22:43	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 22:43	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 22:43	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 22:43	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 22:43	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 22:43	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 22:43	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 22:43	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 22:43	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 22:43	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*45 - 107*	*09/20/19 08:42*	*09/20/19 22:43*	*1*
Nitrobenzene-d5 (Surr)	*56*		*51 - 108*	*09/20/19 08:42*	*09/20/19 22:43*	*1*
Terphenyl-d14 (Surr)	*58*		*40 - 148*	*09/20/19 08:42*	*09/20/19 22:43*	*1*

Client Sample ID: FB-091819

Date Collected: 09/18/19 14:30
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 00:13	1
Ethylbenzene	**0.41**	**J**	1.0	0.30	ug/L			09/21/19 00:13	1
Toluene	**0.60**	**J**	1.0	0.38	ug/L			09/21/19 00:13	1
Xylenes, Total	**2.7**		2.0	0.65	ug/L			09/21/19 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*09/21/19 00:13*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*09/21/19 00:13*	*1*
Dibromofluoromethane (Surr)	*94*		*72 - 131*		*09/21/19 00:13*	*1*

Client Sample ID: FB-091819

Date Collected: 09/18/19 14:30
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		09/21/19 [illegible]:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 [illegible]:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		45 - 107	09/20/19 08:42	09/20/19 [illegible]:04	1
Nitrobenzene-d5 (Surr)	72		51 - 108	09/20/19 08:42	09/20/19 [illegible]:04	1
Terphenyl-d14 (Surr)	77		40 - 148	09/20/19 08:42	09/20/19 [illegible]:04	1

Client Sample ID: HIMW-20S

Date Collected: 09/18/19 15:10
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 [illegible]:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 [illegible]:01	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 [illegible]:01	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 [illegible]:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		74 - 132		09/20/19 [illegible]:01	1
4-Bromofluorobenzene	97		77 - 124		09/20/19 [illegible]:01	1
Dibromofluoromethane (Surr)	97		72 - 131		09/20/19 [illegible]:01	1
Toluene-d8 (Surr)	92		80 - 120		09/20/19 [illegible]:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 [illegible]:25	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 [illegible]:25	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 [illegible]:25	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 [illegible]:25	1

Client Sample ID: HIMW-20S
Date Collected: 09/18/19 15:10
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 23:25	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 23:25	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 23:25	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 23:25	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 23:25	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 23:25	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 23:25	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 23:25	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 23:25	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 23:25	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 23:25	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 23:25	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*45 - 107*	*09/20/19 08:42*	*09/20/19 23:25*	*1*
Nitrobenzene-d5 (Surr)	*80*		*51 - 108*	*09/20/19 08:42*	*09/20/19 23:25*	*1*
Terphenyl-d14 (Surr)	*73*		*40 - 148*	*09/20/19 08:42*	*09/20/19 23:25*	*1*

Client Sample ID: HIMW-20I
Date Collected: 09/18/19 13:55
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/20/19 16:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/20/19 16:26	1
Toluene	1.0	U	1.0	0.38	ug/L			09/20/19 16:26	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/20/19 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*74 - 132*		*09/20/19 16:26*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/20/19 16:26*	*1*
Dibromofluoromethane (Surr)	*96*		*72 - 131*		*09/20/19 16:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/20/19 16:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 23:46	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 23:46	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 08:42	09/20/19 23:46	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 08:42	09/20/19 23:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 08:42	09/20/19 23:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 08:42	09/20/19 23:46	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 08:42	09/20/19 23:46	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 08:42	09/20/19 23:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 08:42	09/20/19 23:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 08:42	09/20/19 23:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 08:42	09/20/19 23:46	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 08:42	09/20/19 23:46	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 08:42	09/20/19 23:46	1

Client Sample ID: HIMW-20I
Date Collected: 09/18/19 13:55
Date Received: 09/19/19 17:14

Lab Sample ID: 460-191678-12
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 08:42	09/20/19 23:46	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 08:42	09/20/19 23:46	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 08:42	09/20/19 23:46	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 08:42	09/20/19 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*45 - 107*	*09/20/19 08:42*	*09/20/19 23:46*	*1*
Nitrobenzene-d5 (Surr)	*79*		*51 - 108*	*09/20/19 08:42*	*09/20/19 23:46*	*1*
Terphenyl-d14 (Surr)	*69*		*40 - 148*	*09/20/19 08:42*	*09/20/19 23:46*	*1*

TestAmerica New York City
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

460-191678 Chain of Custody

191678 TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program:

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 9/18/19	COC No:
GEI Consultants Inc. P.C.	Tel/Fax: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler:
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Downstate	☐ 1 week			
Site: Hempstead Intersection	☐ 2 days			Job / SDG No.:
PO # 1702897.30.1	☐ 1 day			

NYC 222

5-Day RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D													Sample Specific Notes:
TB091819	9/18/19	—	G	GW	2			X													1	
HIMW-14I		8:20			5			X	X												2	
HIMW-14D		915			5			X	X												3	
HIMW-15I		14.40			5			X	X												4	
HIMW-15D		1350			5			X	X												5	
HIMW-13S		1230			5			X	X												6	
HIMW-13I		11:10			15			X	X												7	MS/MSD
HIMW-13D		840			5			X	X												8	
Dup-02		—			5			X	X												9	
FB-091819		1430			5			X	X												10	
HIMW-20S		15:10			5			X	X												11	
HIMW-20I		1355			5			X	X												12	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments: CAT B Report

Relinquished by:	Company:	Date/Time: 9/18/19 1615	Received by:	Company:	Date/Time: 9/18/19 1615
Relinquished by:	Company:	Date/Time: 9/18/19 1715	Received by:	Company:	Date/Time: 9/18/19 1715
Relinquished by:	Company:	Date/Time: 9/18/19 1715	Received in Laboratory by:	Company:	Date/Time: 9/18/19 1920

Cooler Temp. Obs'd: Corr'd: Therm ID No.:

3.1 - 0.1 = 3.0

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

Client Sample ID: TB091919

Date Collected: 09/19/19 11:40
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 21:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 21:15	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 21:15	1
Xylenes, Total	**0.83**	J	2.0	0.65	ug/L			09/21/19 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*09/21/19 21:15*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*09/21/19 21:15*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*09/21/19 21:15*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/21/19 21:15*	*1*

Client Sample ID: HIMW-26I

Date Collected: 09/19/19 06:15
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 23:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 23:16	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 23:16	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/19 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*74 - 132*		*09/21/19 23:16*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/21/19 23:16*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*09/21/19 23:16*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/21/19 23:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 08:59	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 08:59	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 21:27	09/21/19 08:59	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 21:27	09/21/19 08:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 21:27	09/21/19 08:59	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 21:27	09/21/19 08:59	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 21:27	09/21/19 08:59	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 21:27	09/21/19 08:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 21:27	09/21/19 08:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 21:27	09/21/19 08:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 21:27	09/21/19 08:59	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 21:27	09/21/19 08:59	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 21:27	09/21/19 08:59	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 21:27	09/21/19 08:59	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 08:59	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 21:27	09/21/19 08:59	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 21:27	09/21/19 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*45 - 107*	*09/20/19 21:27*	*09/21/19 08:59*	*1*
Nitrobenzene-d5 (Surr)	*85*		*51 - 108*	*09/20/19 21:27*	*09/21/19 08:59*	*1*

AM 9/24/19

Client Sample ID: HIMW-26I

Date Collected: 09/19/19 06:15
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	90		40 - 148	09/20/19 21:27	09/21/19 08:59	1

Client Sample ID: HIMW-26D

Date Collected: 09/19/19 07:15
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 21:39	1
Ethylbenzene	~~0.41~~	~~J~~ 1.0 U	1.0	0.30	ug/L			09/21/19 21:39	1
Toluene	3.7	J	1.0	0.38	ug/L			09/21/19 21:39	1
Xylenes, Total	65		2.0	0.65	ug/L			09/21/19 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		74 - 132		09/21/19 21:39	1
4-Bromofluorobenzene	96		77 - 124		09/21/19 21:39	1
Dibromofluoromethane (Surr)	104		72 - 131		09/21/19 21:39	1
Toluene-d8 (Surr)	95		80 - 120		09/21/19 21:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	250		100	11	ug/L		09/20/19 21:27	09/24/19 00:31	10
Acenaphthene	100	U	100	11	ug/L		09/20/19 21:27	09/24/19 00:31	10
Acenaphthylene	83	J	100	8.2	ug/L		09/20/19 21:27	09/24/19 00:31	10
Anthracene	100	U	100	6.3	ug/L		09/20/19 21:27	09/24/19 00:31	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		09/20/19 21:27	09/24/19 00:31	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		09/20/19 21:27	09/24/19 00:31	10
Benzo[b]fluoranthene	20	U	20	11	ug/L		09/20/19 21:27	09/24/19 00:31	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		09/20/19 21:27	09/24/19 00:31	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		09/20/19 21:27	09/24/19 00:31	10
Chrysene	20	U	20	9.1	ug/L		09/20/19 21:27	09/24/19 00:31	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		09/20/19 21:27	09/24/19 00:31	10
Fluoranthene	100	U	100	8.4	ug/L		09/20/19 21:27	09/24/19 00:31	10
Fluorene	17	J	100	9.1	ug/L		09/20/19 21:27	09/24/19 00:31	10
Indeno[1,2,3-cd]pyrene	20	U	20	13	ug/L		09/20/19 21:27	09/24/19 00:31	10
Naphthalene	870		100	11	ug/L		09/20/19 21:27	09/24/19 00:31	10
Phenanthrene	20	J	100	5.8	ug/L		09/20/19 21:27	09/24/19 00:31	10
Pyrene	100	U	100	16	ug/L		09/20/19 21:27	09/24/19 00:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		45 - 107	09/20/19 21:27	09/24/19 00:31	10
Nitrobenzene-d5 (Surr)	92		51 - 108	09/20/19 21:27	09/24/19 00:31	10
Terphenyl-d14 (Surr)	102		40 - 148	09/20/19 21:27	09/24/19 00:31	10

Client Sample ID: HIMW-05S

Date Collected: 09/19/19 05:40
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 22:03	1

Client Sample ID: HIMW-05S

Date Collected: 09/19/19 05:40
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 22:03	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 22:03	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/21/19 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*74 - 132*		*09/21/19 22:03*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/21/19 22:03*	*1*
Dibromofluoromethane (Surr)	*102*		*72 - 131*		*09/21/19 22:03*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/21/19 22:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 09:41	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 09:41	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 21:27	09/21/19 09:41	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 21:27	09/21/19 09:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 21:27	09/21/19 09:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 21:27	09/21/19 09:41	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 21:27	09/21/19 09:41	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 21:27	09/21/19 09:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 21:27	09/21/19 09:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 21:27	09/21/19 09:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 21:27	09/21/19 09:41	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 21:27	09/21/19 09:41	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 21:27	09/21/19 09:41	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 21:27	09/21/19 09:41	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 09:41	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 21:27	09/21/19 09:41	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 21:27	09/21/19 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*45 - 107*	*09/20/19 21:27*	*09/21/19 09:41*	*1*
Nitrobenzene-d5 (Surr)	*83*		*51 - 108*	*09/20/19 21:27*	*09/21/19 09:41*	*1*
Terphenyl-d14 (Surr)	*90*		*40 - 148*	*09/20/19 21:27*	*09/21/19 09:41*	*1*

Client Sample ID: HIMW-05I

Date Collected: 09/19/19 06:35
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/21/19 22:28	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/21/19 22:28	1
Toluene	1.0	U	1.0	0.38	ug/L			09/21/19 22:28	1
Xylenes, Total	**37**		2.0	0.65	ug/L			09/21/19 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*74 - 132*		*09/21/19 22:28*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*09/21/19 22:28*	*1*
Dibromofluoromethane (Surr)	*102*		*72 - 131*		*09/21/19 22:28*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/21/19 22:28*	*1*

Client Sample ID: HIMW-05I

Date Collected: 09/19/19 06:35
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**120**	J	250	27	ug/L		09/20/19 21:27	09/24/19 01:12	25
Acenaphthene	250	U	250	27	ug/L		09/20/19 21:27	09/24/19 01:12	25
Acenaphthylene	**160**	J	250	21	ug/L		09/20/19 21:27	09/24/19 01:12	25
Anthracene	250	U	250	16	ug/L		09/20/19 21:27	09/24/19 01:12	25
Benzo[a]anthracene	25	U	25	15	ug/L		09/20/19 21:27	09/24/19 01:12	25
Benzo[a]pyrene	25	U	25	10	ug/L		09/20/19 21:27	09/24/19 01:12	25
Benzo[b]fluoranthene	50	U	50	29	ug/L		09/20/19 21:27	09/24/19 01:12	25
Benzo[g,h,i]perylene	250	U	250	36	ug/L		09/20/19 21:27	09/24/19 01:12	25
Benzo[k]fluoranthene	25	U	25	17	ug/L		09/20/19 21:27	09/24/19 01:12	25
Chrysene	50	U	50	23	ug/L		09/20/19 21:27	09/24/19 01:12	25
Dibenz(a,h)anthracene	25	U	25	18	ug/L		09/20/19 21:27	09/24/19 01:12	25
Fluoranthene	250	U	250	21	ug/L		09/20/19 21:27	09/24/19 01:12	25
Fluorene	**33**	J	250	23	ug/L		09/20/19 21:27	09/24/19 01:12	25
Indeno[1,2,3-cd]pyrene	50	U	50	32	ug/L		09/20/19 21:27	09/24/19 01:12	25
Naphthalene	**800**		250	28	ug/L		09/20/19 21:27	09/24/19 01:12	25
Phenanthrene	**34**	J	250	15	ug/L		09/20/19 21:27	09/24/19 01:12	25
Pyrene	250	U	250	41	ug/L		09/20/19 21:27	09/24/19 01:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*45 - 107*	*09/20/19 21:27*	*09/24/19 01:12*	*25*
Nitrobenzene-d5 (Surr)	*78*		*51 - 108*	*09/20/19 21:27*	*09/24/19 01:12*	*25*
Terphenyl-d14 (Surr)	*89*		*40 - 148*	*09/20/19 21:27*	*09/24/19 01:12*	*25*

Client Sample ID: HIMW-05D

Date Collected: 09/19/19 07:45
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.54**	J	1.0	0.20	ug/L			09/21/19 22:52	1
Ethylbenzene	**2.1**	J	1.0	0.30	ug/L			09/21/19 22:52	1
Toluene	**20**		1.0	0.38	ug/L			09/21/19 22:52	1
Xylenes, Total	**200**		2.0	0.65	ug/L			09/21/19 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*74 - 132*		*09/21/19 22:52*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*09/21/19 22:52*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*09/21/19 22:52*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/21/19 22:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**300**		100	11	ug/L		09/20/19 21:27	09/24/19 00:51	10
Acenaphthene	**11**	J	100	11	ug/L		09/20/19 21:27	09/24/19 00:51	10
Acenaphthylene	**130**		100	8.2	ug/L		09/20/19 21:27	09/24/19 00:51	10
Anthracene	100	U	100	6.3	ug/L		09/20/19 21:27	09/24/19 00:51	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		09/20/19 21:27	09/24/19 00:51	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		09/20/19 21:27	09/24/19 00:51	10
Benzo[b]fluoranthene	20	U	20	11	ug/L		09/20/19 21:27	09/24/19 00:51	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		09/20/19 21:27	09/24/19 00:51	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		09/20/19 21:27	09/24/19 00:51	10

Client Sample ID: HIMW-05D

Date Collected: 09/19/19 07:45
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	20	U	20	9.1	ug/L		09/20/19 21:27	09/24/19 00:51	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		09/20/19 21:27	09/24/19 00:51	10
Fluoranthene	100	U	100	8.4	ug/L		09/20/19 21:27	09/24/19 00:51	10
Fluorene	**21**	J	100	9.1	ug/L		09/20/19 21:27	09/24/19 00:51	10
Indeno[1,2,3-cd]pyrene	20	U	20	13	ug/L		09/20/19 21:27	09/24/19 00:51	10
Naphthalene	**1500**		100	11	ug/L		09/20/19 21:27	09/24/19 00:51	10
Phenanthrene	**9.6**	J	100	5.8	ug/L		09/20/19 21:27	09/24/19 00:51	10
Pyrene	100	U	100	16	ug/L		09/20/19 21:27	09/24/19 00:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*45 - 107*	*09/20/19 21:27*	*09/24/19 00:51*	*10*
Nitrobenzene-d5 (Surr)	*79*		*51 - 108*	*09/20/19 21:27*	*09/24/19 00:51*	*10*
Terphenyl-d14 (Surr)	*96*		*40 - 148*	*09/20/19 21:27*	*09/24/19 00:51*	*10*

Client Sample ID: HIMW-03S

Date Collected: 09/19/19 10:25
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/19 14:02	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/19 14:02	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/19 14:02	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/22/19 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*74 - 132*		*09/22/19 14:02*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*09/22/19 14:02*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*09/22/19 14:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/22/19 14:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 10:44	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 10:44	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 21:27	09/21/19 10:44	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 21:27	09/21/19 10:44	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 21:27	09/21/19 10:44	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 21:27	09/21/19 10:44	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 21:27	09/21/19 10:44	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 21:27	09/21/19 10:44	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 21:27	09/21/19 10:44	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 21:27	09/21/19 10:44	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 21:27	09/21/19 10:44	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 21:27	09/21/19 10:44	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 21:27	09/21/19 10:44	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 21:27	09/21/19 10:44	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 10:44	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 21:27	09/21/19 10:44	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 21:27	09/21/19 10:44	1

Client Sample ID: HIMW-03S

Date Collected: 09/19/19 10:25
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		45 - 107	09/20/19 21:27	09/21/19 10:44	1
Nitrobenzene-d5 (Surr)	86		51 - 108	09/20/19 21:27	09/21/19 10:44	1
Terphenyl-d14 (Surr)	95		40 - 148	09/20/19 21:27	09/21/19 10:44	1

Client Sample ID: HIMW-03I

Date Collected: 09/19/19 11:40
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/19 14:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/19 14:26	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/19 14:26	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/22/19 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		74 - 132		09/22/19 14:26	1
4-Bromofluorobenzene	96		77 - 124		09/22/19 14:26	1
Dibromofluoromethane (Surr)	100		72 - 131		09/22/19 14:26	1
Toluene-d8 (Surr)	95		80 - 120		09/22/19 14:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 11:05	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 11:05	1
Acenaphthylene	10	U	10	0.86	ug/L		09/20/19 21:27	09/21/19 11:05	1
Anthracene	10	U	10	0.66	ug/L		09/20/19 21:27	09/21/19 11:05	1
Benzo[a]anthracene	1.0	U	1.0	0.62	ug/L		09/20/19 21:27	09/21/19 11:05	1
Benzo[a]pyrene	1.0	U	1.0	0.42	ug/L		09/20/19 21:27	09/21/19 11:05	1
Benzo[b]fluoranthene	2.1	U	2.1	1.2	ug/L		09/20/19 21:27	09/21/19 11:05	1
Benzo[g,h,i]perylene	10	U	10	1.5	ug/L		09/20/19 21:27	09/21/19 11:05	1
Benzo[k]fluoranthene	1.0	U	1.0	0.70	ug/L		09/20/19 21:27	09/21/19 11:05	1
Chrysene	2.1	U	2.1	0.94	ug/L		09/20/19 21:27	09/21/19 11:05	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.75	ug/L		09/20/19 21:27	09/21/19 11:05	1
Fluoranthene	10	U	10	0.88	ug/L		09/20/19 21:27	09/21/19 11:05	1
Fluorene	10	U	10	0.95	ug/L		09/20/19 21:27	09/21/19 11:05	1
Indeno[1,2,3-cd]pyrene	2.1	U	2.1	1.3	ug/L		09/20/19 21:27	09/21/19 11:05	1
Naphthalene	10	U	10	1.2	ug/L		09/20/19 21:27	09/21/19 11:05	1
Phenanthrene	10	U	10	0.60	ug/L		09/20/19 21:27	09/21/19 11:05	1
Pyrene	10	U	10	1.7	ug/L		09/20/19 21:27	09/21/19 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		45 - 107	09/20/19 21:27	09/21/19 11:05	1
Nitrobenzene-d5 (Surr)	77		51 - 108	09/20/19 21:27	09/21/19 11:05	1
Terphenyl-d14 (Surr)	82		40 - 148	09/20/19 21:27	09/21/19 11:05	1

Client Sample ID: HIMW-03D

Date Collected: 09/19/19 12:50
Date Received: 09/19/19 20:00

Lab Sample ID: 460-191743-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			09/22/19 14:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			09/22/19 14:50	1
Toluene	1.0	U	1.0	0.38	ug/L			09/22/19 14:50	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			09/22/19 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*74 - 132*		*09/22/19 14:50*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*09/22/19 14:50*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*09/22/19 14:50*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/22/19 14:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 11:26	1
Acenaphthene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 11:26	1
Acenaphthylene	10	U	10	0.82	ug/L		09/20/19 21:27	09/21/19 11:26	1
Anthracene	10	U	10	0.63	ug/L		09/20/19 21:27	09/21/19 11:26	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		09/20/19 21:27	09/21/19 11:26	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		09/20/19 21:27	09/21/19 11:26	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		09/20/19 21:27	09/21/19 11:26	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		09/20/19 21:27	09/21/19 11:26	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		09/20/19 21:27	09/21/19 11:26	1
Chrysene	2.0	U	2.0	0.91	ug/L		09/20/19 21:27	09/21/19 11:26	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		09/20/19 21:27	09/21/19 11:26	1
Fluoranthene	10	U	10	0.84	ug/L		09/20/19 21:27	09/21/19 11:26	1
Fluorene	10	U	10	0.91	ug/L		09/20/19 21:27	09/21/19 11:26	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		09/20/19 21:27	09/21/19 11:26	1
Naphthalene	10	U	10	1.1	ug/L		09/20/19 21:27	09/21/19 11:26	1
Phenanthrene	10	U	10	0.58	ug/L		09/20/19 21:27	09/21/19 11:26	1
Pyrene	10	U	10	1.6	ug/L		09/20/19 21:27	09/21/19 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*45 - 107*	*09/20/19 21:27*	*09/21/19 11:26*	*1*
Nitrobenzene-d5 (Surr)	*89*		*51 - 108*	*09/20/19 21:27*	*09/21/19 11:26*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 148*	*09/20/19 21:27*	*09/21/19 11:26*	*1*

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Chain of Custody Record

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Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

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110 Walte Whitman Road Suite 204	Analysis Turnaround Time			Sampler: RS GV
Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(631) 760 - 9300 Phone	TAT if different from Below standard			Walk-in Client:
(631) 760 - 9301 FAX	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Downstate	☐ 1 week			Job / SDG No.: 191743
Site: Hempstead Intersection	☐ 2 days			
PO # 1702697.30.1	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAHs-2-methylnaphthalene 8270D	Sample Specific Notes:
TB091919	9/9/19	—	G	GW	2			X		1
HIMW-26I		615			5			X	X	2
HIMW-26D		715			5			X	X	3
HIMW-055		0540			5			X	X	4
HIMW-05I		0635			5			X	X	5
HIMW-05D		0745			5			X	X	6
HIMW-035		1025			5			X	X	7
HIMW-03I		1140			5			X	X	8
HIMW-030	↓	1250	↓	↓	5			X	X	9

5-Day RUSH

460-191743 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B Report

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.:
Relinquished by:	Company: GEI Consultants Inc. P.C	Date/Time:	Received by:	Company:	Date/Time: 9/19/19 13:25
Relinquished by:	Company:	Date/Time: 9/19/19 17:31	Received by:	Company:	Date/Time: 9/19/19 17:55
Relinquished by:	Company:	Date/Time: 9/19/19 23:55	Received in Laboratory by:	Company: ETA	Date/Time: 9.19.19 2000

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

2.5 (2.5 ±)

Client Sample ID: TB-031120

Date Collected: 03/11/20 00:00
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204841-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 18:40	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 18:40	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 18:40	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 123*		*03/13/20 18:40*	*1*
4-Bromofluorobenzene	*103*		*76 - 120*		*03/13/20 18:40*	*1*
Dibromofluoromethane (Surr)	*113*		*77 - 124*		*03/13/20 18:40*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/13/20 18:40*	*1*

Client Sample ID: HIMW-13S

Date Collected: 03/11/20 08:55
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204841-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 19:07	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 19:07	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 19:07	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 123*		*03/13/20 19:07*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*03/13/20 19:07*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*03/13/20 19:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/13/20 19:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 06:34	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 06:34	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 06:34	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 06:34	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 06:34	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 06:34	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 06:34	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 06:34	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 06:34	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 06:34	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 06:34	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 06:34	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 06:34	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 06:34	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 06:34	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 06:34	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*42 - 127*	*03/13/20 08:55*	*03/14/20 06:34*	*1*
Nitrobenzene-d5 (Surr)	*82*		*46 - 137*	*03/13/20 08:55*	*03/14/20 06:34*	*1*

dam 4/3/20

Client Sample ID: HIMW-13S

Date Collected: 03/11/20 08:55
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204841-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	108		39 - 150	03/13/20 08:55	03/14/20 06:34	1

Client Sample ID: HIMW-13I

Date Collected: 03/11/20 09:55
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204841-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 19:33	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 19:33	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 19:33	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		75 - 123		03/13/20 19:33	1
4-Bromofluorobenzene	99		76 - 120		03/13/20 19:33	1
Dibromofluoromethane (Surr)	108		77 - 124		03/13/20 19:33	1
Toluene-d8 (Surr)	98		80 - 120		03/13/20 19:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 06:55	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 06:55	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 06:55	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 06:55	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 06:55	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 06:55	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 06:55	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 06:55	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 06:55	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 06:55	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 06:55	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 06:55	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 06:55	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 06:55	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 06:55	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 06:55	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		42 - 127	03/13/20 08:55	03/14/20 06:55	1
Nitrobenzene-d5 (Surr)	99		46 - 137	03/13/20 08:55	03/14/20 06:55	1
Terphenyl-d14 (Surr)	126		39 - 150	03/13/20 08:55	03/14/20 06:55	1

Client Sample ID: HIMW-13D

Date Collected: 03/11/20 11:05
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204841-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		1.0	0.20	ug/L			03/13/20 19:59	1

Client Sample ID: HIMW-13D
Date Collected: 03/11/20 11:05
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204841-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 19:59	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 19:59	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 123*		*03/13/20 19:59*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/13/20 19:59*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 124*		*03/13/20 19:59*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/13/20 19:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 07:15	1
Acenaphthene	**4.5**	**J**	10	1.1	ug/L		03/13/20 08:55	03/14/20 07:15	1
Acenaphthylene	**7.0**	**J**	10	0.82	ug/L		03/13/20 08:55	03/14/20 07:15	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 07:15	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 07:15	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 07:15	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 07:15	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 07:15	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 07:15	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 07:15	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 07:15	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 07:15	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 07:15	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 07:15	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 07:15	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 07:15	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*42 - 127*	*03/13/20 08:55*	*03/14/20 07:15*	*1*
Nitrobenzene-d5 (Surr)	*110*		*46 - 137*	*03/13/20 08:55*	*03/14/20 07:15*	*1*
Terphenyl-d14 (Surr)	*129*		*39 - 150*	*03/13/20 08:55*	*03/14/20 07:15*	*1*

Chain of Custody Record 410852

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Quinlan	Date: 3/11/20	COC No: 1 of 1 COCs
Company Name: GEI Consultants Inc. P.C.	Tel/Email: (631) 484-9152	Lab Contact: Melissa Hagg	Carrier: Test America	Sampler: JC
Address: 110 Walt Whitman Road Suite 204	Analysis Turnaround Time			For Lab Use Only: 22
City/State/Zip: Huntington Station / NY / 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
Phone: (631) 760-9300	TAT if different from Below: Standard			Lab Sampling:
Fax: (631) 760-9301	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No.: 204841
Project Name: National Grid Downstate Program				
Site: Hempstead Intersection				
P O #: 1905774.15.3				

5-Day RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB-031120	3/11/20	—	G	GW	2			X		-1
HIMW-13S	"	0855	"	"	5			X	X	-2
HIMW-13I	"	0955	"	"	5			X	X	-3
HIMW-13D	"	1105	"	"	5			X	X	-4

460-204841 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for: _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by: Greg Vorzimmer	Company: GEI Consultants	Date/Time: 3/11/20 1525	Received by:	Company: FTA	Date/Time: 3/11/20 1525
Relinquished by:	Company: FTA	Date/Time: 3/11/20 1742	Received by: Bernard	Company: DA	Date/Time: 3/12/20 1700
Relinquished by: Kernard	Company: DA	Date/Time: 3/11/20 19	Received in Laboratory by: Deborah D	Company: FTA	Date/Time: 3/12/20 1930

2-8 2B-11 3-1 IR 11

Client Sample ID: HIMW-28S

Date Collected: 03/11/20 08:45
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.81	J	1.0	0.20	ug/L			03/13/20 13:37	1
Ethylbenzene	190		1.0	0.30	ug/L			03/13/20 13:37	1
Toluene	3.7		1.0	0.38	ug/L			03/13/20 13:37	1
Xylenes, Total	17		2.0	0.65	ug/L			03/13/20 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*03/13/20 13:37*	*1*
4-Bromofluorobenzene	*110*		*76 - 120*		*03/13/20 13:37*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/13/20 13:37*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/13/20 13:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	44		10	1.1	ug/L		03/13/20 08:55	03/13/20 23:56	1
Acenaphthene	24		10	1.1	ug/L		03/13/20 08:55	03/13/20 23:56	1
Acenaphthylene	2.1	J	10	0.82	ug/L		03/13/20 08:55	03/13/20 23:56	1
Anthracene	3.4	J	10	0.63	ug/L		03/13/20 08:55	03/13/20 23:56	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/13/20 23:56	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/13/20 23:56	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/13/20 23:56	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/13/20 23:56	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/13/20 23:56	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/13/20 23:56	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/13/20 23:56	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/13/20 23:56	1
Fluorene	19		10	0.91	ug/L		03/13/20 08:55	03/13/20 23:56	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/13/20 23:56	1
Naphthalene	160		2.0	1.1	ug/L		03/13/20 08:55	03/13/20 23:56	1
Phenanthrene	20		10	0.58	ug/L		03/13/20 08:55	03/13/20 23:56	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/13/20 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*42 - 127*	*03/13/20 08:55*	*03/13/20 23:56*	*1*
Nitrobenzene-d5 (Surr)	*85*		*46 - 137*	*03/13/20 08:55*	*03/13/20 23:56*	*1*
Terphenyl-d14 (Surr)	*113*		*39 - 150*	*03/13/20 08:55*	*03/13/20 23:56*	*1*

Client Sample ID: HIMW-28I

Date Collected: 03/11/20 09:40
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 13:58	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 13:58	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 13:58	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 123*		*03/13/20 13:58*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*03/13/20 13:58*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/13/20 13:58*	*1*

Am 4/2/20

Client Sample ID: HIMW-28I

Date Collected: 03/11/20 09:40
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*109*		*80 - 120*		*03/13/20 13:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 02:23	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 02:23	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 02:23	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 02:23	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 02:23	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 02:23	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 02:23	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 02:23	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 02:23	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 02:23	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 02:23	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 02:23	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 02:23	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 02:23	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 02:23	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 02:23	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*81*		*42 - 127*	*03/13/20 08:55*	*03/14/20 02:23*	*1*
Nitrobenzene-d5 (Surr)	*90*		*46 - 137*	*03/13/20 08:55*	*03/14/20 02:23*	*1*
Terphenyl-d14 (Surr)	*117*		*39 - 150*	*03/13/20 08:55*	*03/14/20 02:23*	*1*

Client Sample ID: Dup-01

Date Collected: 03/11/20 00:00
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 15:21	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 15:21	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 15:21	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*03/13/20 15:21*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*03/13/20 15:21*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*03/13/20 15:21*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*03/13/20 15:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 02:44	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 02:44	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 02:44	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 02:44	1

Client Sample ID: Dup-01
Date Collected: 03/11/20 00:00
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 02:44	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 02:44	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 02:44	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 02:44	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 02:44	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 02:44	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 02:44	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 02:44	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 02:44	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 02:44	1
Naphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 02:44	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 02:44	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 127*	*03/13/20 08:55*	*03/14/20 02:44*	*1*
Nitrobenzene-d5 (Surr)	*77*		*46 - 137*	*03/13/20 08:55*	*03/14/20 02:44*	*1*
Terphenyl-d14 (Surr)	*105*		*39 - 150*	*03/13/20 08:55*	*03/14/20 02:44*	*1*

Client Sample ID: FB031120
Date Collected: 03/11/20 07:55
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 12:13	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 12:13	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 12:13	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*03/13/20 12:13*	*1*
4-Bromofluorobenzene	*106*		*76 - 120*		*03/13/20 12:13*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/13/20 12:13*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*03/13/20 12:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 03:04	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 03:04	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 03:04	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 03:04	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 03:04	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 03:04	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 03:04	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 03:04	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 03:04	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 03:04	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 03:04	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 03:04	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 03:04	1

Client Sample ID: FB031120
Date Collected: 03/11/20 07:55
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 03:04	1
Naphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 03:04	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 03:04	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*42 - 127*	*03/13/20 08:55*	*03/14/20 03:04*	*1*
Nitrobenzene-d5 (Surr)	*91*		*46 - 137*	*03/13/20 08:55*	*03/14/20 03:04*	*1*
Terphenyl-d14 (Surr)	*123*		*39 - 150*	*03/13/20 08:55*	*03/14/20 03:04*	*1*

Client Sample ID: HIMW-27S
Date Collected: 03/11/20 11:25
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.9**		2.0	0.41	ug/L			03/13/20 15:41	2
Ethylbenzene	**510**		2.0	0.60	ug/L			03/13/20 15:41	2
Toluene	**20**		2.0	0.76	ug/L			03/13/20 15:41	2
Xylenes, Total	**510**		4.0	1.3	ug/L			03/13/20 15:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 123*		*03/13/20 15:41*	*2*
4-Bromofluorobenzene	*110*		*76 - 120*		*03/13/20 15:41*	*2*
Dibromofluoromethane (Surr)	*106*		*77 - 124*		*03/13/20 15:41*	*2*
Toluene-d8 (Surr)	*108*		*80 - 120*		*03/13/20 15:41*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**370**		100	11	ug/L		03/13/20 08:55	03/16/20 04:43	10
Acenaphthene	**82**	J	100	11	ug/L		03/13/20 08:55	03/16/20 04:43	10
Acenaphthylene	100	U	100	8.2	ug/L		03/13/20 08:55	03/16/20 04:43	10
Anthracene	**6.7**	J	100	6.3	ug/L		03/13/20 08:55	03/16/20 04:43	10
Benzo[a]anthracene	10	U	10	5.9	ug/L		03/13/20 08:55	03/16/20 04:43	10
Benzo[a]pyrene	10	U	10	4.1	ug/L		03/13/20 08:55	03/16/20 04:43	10
Benzo[b]fluoranthene	20	U	20	6.8	ug/L		03/13/20 08:55	03/16/20 04:43	10
Benzo[g,h,i]perylene	100	U	100	14	ug/L		03/13/20 08:55	03/16/20 04:43	10
Benzo[k]fluoranthene	10	U	10	6.7	ug/L		03/13/20 08:55	03/16/20 04:43	10
Chrysene	20	U	20	9.1	ug/L		03/13/20 08:55	03/16/20 04:43	10
Dibenz(a,h)anthracene	10	U	10	7.2	ug/L		03/13/20 08:55	03/16/20 04:43	10
Fluoranthene	100	U	100	8.4	ug/L		03/13/20 08:55	03/16/20 04:43	10
Fluorene	**37**	J	100	9.1	ug/L		03/13/20 08:55	03/16/20 04:43	10
Indeno[1,2,3-cd]pyrene	20	U	20	9.4	ug/L		03/13/20 08:55	03/16/20 04:43	10
Naphthalene	**1000**		20	11	ug/L		03/13/20 08:55	03/16/20 04:43	10
Phenanthrene	**36**	J	100	5.8	ug/L		03/13/20 08:55	03/16/20 04:43	10
Pyrene	100	U	100	16	ug/L		03/13/20 08:55	03/16/20 04:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*42 - 127*	*03/13/20 08:55*	*03/16/20 04:43*	*10*
Nitrobenzene-d5 (Surr)	*120*		*46 - 137*	*03/13/20 08:55*	*03/16/20 04:43*	*10*
Terphenyl-d14 (Surr)	*95*		*39 - 150*	*03/13/20 08:55*	*03/16/20 04:43*	*10*

Client Sample ID: HIMW-27I
Date Collected: 03/11/20 10:35
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 14:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 14:18	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 14:18	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*03/13/20 14:18*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/13/20 14:18*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*03/13/20 14:18*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*03/13/20 14:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 03:46	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 03:46	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 03:46	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 03:46	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 03:46	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 03:46	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 03:46	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 03:46	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 03:46	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 03:46	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 03:46	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 03:46	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 03:46	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 03:46	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 03:46	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 03:46	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*42 - 127*	*03/13/20 08:55*	*03/14/20 03:46*	*1*
Nitrobenzene-d5 (Surr)	*85*		*46 - 137*	*03/13/20 08:55*	*03/14/20 03:46*	*1*
Terphenyl-d14 (Surr)	*103*		*39 - 150*	*03/13/20 08:55*	*03/14/20 03:46*	*1*

Client Sample ID: HIMW-08S
Date Collected: 03/11/20 12:20
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.8		1.0	0.20	ug/L			03/13/20 14:39	1
Ethylbenzene	0.30	J	1.0	0.30	ug/L			03/13/20 14:39	1
Toluene	1.0		1.0	0.38	ug/L			03/13/20 14:39	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 123*		*03/13/20 14:39*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*03/13/20 14:39*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*03/13/20 14:39*	*1*

Client Sample ID: HIMW-08S
Date Collected: 03/11/20 12:20
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		03/13/20 14:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 04:07	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 04:07	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 04:07	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 04:07	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 04:07	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 04:07	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 04:07	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 04:07	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 04:07	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 04:07	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 04:07	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 04:07	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 04:07	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 04:07	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 04:07	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 04:07	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		42 - 127	03/13/20 08:55	03/14/20 04:07	1
Nitrobenzene-d5 (Surr)	86		46 - 137	03/13/20 08:55	03/14/20 04:07	1
Terphenyl-d14 (Surr)	88		39 - 150	03/13/20 08:55	03/14/20 04:07	1

Client Sample ID: HIMW-08I
Date Collected: 03/11/20 13:15
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 15:00	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 15:00	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 15:00	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 123		03/13/20 15:00	1
4-Bromofluorobenzene	105		76 - 120		03/13/20 15:00	1
Dibromofluoromethane (Surr)	106		77 - 124		03/13/20 15:00	1
Toluene-d8 (Surr)	110		80 - 120		03/13/20 15:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 04:28	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 04:28	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 04:28	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 04:28	1

Client Sample ID: HIMW-08I

Date Collected: 03/11/20 13:15
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-9
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 04:28	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 04:28	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 04:28	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 04:28	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 04:28	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 04:28	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 04:28	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 04:28	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 04:28	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 04:28	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 04:28	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 04:28	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*42 - 127*	*03/13/20 08:55*	*03/14/20 04:28*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 137*	*03/13/20 08:55*	*03/14/20 04:28*	*1*
Terphenyl-d14 (Surr)	*98*		*39 - 150*	*03/13/20 08:55*	*03/14/20 04:28*	*1*

Client Sample ID: HIMW-08D

Date Collected: 03/11/20 14:10
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/13/20 11:53	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/13/20 11:53	1
Toluene	1.0	U	1.0	0.38	ug/L			03/13/20 11:53	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/13/20 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 123*		*03/13/20 11:53*	*1*
4-Bromofluorobenzene	*107*		*76 - 120*		*03/13/20 11:53*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*03/13/20 11:53*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*03/13/20 11:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 04:49	1
Acenaphthene	10	U	10	1.1	ug/L		03/13/20 08:55	03/14/20 04:49	1
Acenaphthylene	10	U	10	0.82	ug/L		03/13/20 08:55	03/14/20 04:49	1
Anthracene	10	U	10	0.63	ug/L		03/13/20 08:55	03/14/20 04:49	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/13/20 08:55	03/14/20 04:49	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/13/20 08:55	03/14/20 04:49	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/13/20 08:55	03/14/20 04:49	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/13/20 08:55	03/14/20 04:49	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/13/20 08:55	03/14/20 04:49	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/13/20 08:55	03/14/20 04:49	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/13/20 08:55	03/14/20 04:49	1
Fluoranthene	10	U	10	0.84	ug/L		03/13/20 08:55	03/14/20 04:49	1
Fluorene	10	U	10	0.91	ug/L		03/13/20 08:55	03/14/20 04:49	1

Client: GEI Consultants, Inc.
Project/Site: National Grid - Downstate OMM Hempstead

Job ID: 460-204846-1

Client Sample ID: HIMW-08D
Date Collected: 03/11/20 14:10
Date Received: 03/11/20 19:30

Lab Sample ID: 460-204846-10
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/13/20 08:55	03/14/20 04:49	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/13/20 08:55	03/14/20 04:49	1
Phenanthrene	10	U	10	0.58	ug/L		03/13/20 08:55	03/14/20 04:49	1
Pyrene	10	U	10	1.6	ug/L		03/13/20 08:55	03/14/20 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 127*	*03/13/20 08:55*	*03/14/20 04:49*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 137*	*03/13/20 08:55*	*03/14/20 04:49*	*1*
Terphenyl-d14 (Surr)	*99*		*39 - 150*	*03/13/20 08:55*	*03/14/20 04:49*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page ___ of NYC

Name (for report and invoice) CHRIS Morris	Samplers Name (Printed) R SAKALAUSKAS	Site/Project Identification HEMPSTEAD DOWNSTATE INTERSECTION	
Company GEI CONSULTANTS P C	P. O. # 1905774.153	State (Location of site): NJ: ☐ NY: ☒ Other:	
Address 110 WALT WHITMAN RD SUITE 254	Analysis Turnaround Time: Standard ☒	Regulatory Program:	DKQP: ☐
City HUNTINGTON STATION State NY 11746	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)	LAB USE ONLY Project No:
Phone (631) 760-9300 Fax (631) 760-9301		5-Day RUSH	Job No: 204846

Sample Identification	Date	Time	Matrix	No. of Cont.	BTEX (8260C)	DAI (8270D)	Sample Numbers
TB031120	3/11/20	—	GW	2	X		-1
HIMW-23S		345		15	X	X	MS/MSD -2
HIMW-28I		940		5	X	X	-3
DUP-01		—		5	X	X	-4
FB031120		755		5	X	X	-5
HIMW-27S		1125		5	X	X	-6
HIMW-27I		1035		5	X	X	-7
HIMW-08S		1220		5	X	X	-8
HIMW-08I		1315		5	X	X	-9
HIMW-08D		1410		5	X	X	-10

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other ____, 7 = Other ____ Soil: / Water:

460-204846 Chain of Custody

Special Instructions CAT B REPORT

Water Metals Filtered (Yes/No)? ____

Relinquished by 1)	Company GEI CONSULTANTS	Date / Time 3/11/20 1530	Received by 1)	Company
Relinquished by 2)	Company	Date / Time 3/11/20 1630	Received by 2)	Company
Relinquished by 3)	Company	Date / Time 3/12/20 1730	Received by 3)	Company ETA 3/12/20 1930
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

IR 11 3.1 IR 11

Client Sample ID: TB031220

Date Collected: 03/12/20 14:30
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/16/20 23:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/16/20 23:18	1
Toluene	1.0	U	1.0	0.38	ug/L			03/16/20 23:18	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/16/20 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*03/16/20 23:18*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/16/20 23:18*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*03/16/20 23:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/16/20 23:18*	*1*

Client Sample ID: HIMW-26I

Date Collected: 03/12/20 07:10
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 00:03	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 00:03	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 00:03	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*		*03/17/20 00:03*	*1*
4-Bromofluorobenzene	*94*		*76 - 120*		*03/17/20 00:03*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*03/17/20 00:03*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*03/17/20 00:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 00:38	1
Acenaphthene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 00:38	1
Acenaphthylene	10	U	10	0.82	ug/L		03/15/20 07:49	03/16/20 00:38	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/16/20 00:38	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/16/20 00:38	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/16/20 00:38	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/16/20 00:38	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/16/20 00:38	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/16/20 00:38	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/16/20 00:38	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/16/20 00:38	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/16/20 00:38	1
Fluorene	10	U	10	0.91	ug/L		03/15/20 07:49	03/16/20 00:38	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/16/20 00:38	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 00:38	1
Phenanthrene	10	U	10	0.58	ug/L		03/15/20 07:49	03/16/20 00:38	1
Pyrene	10	U J.	10	1.6	ug/L		03/15/20 07:49	03/16/20 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 127*	*03/15/20 07:49*	*03/16/20 00:38*	*1*
Nitrobenzene-d5 (Surr)	*81*		*46 - 137*	*03/15/20 07:49*	*03/16/20 00:38*	*1*

dam 4/2/20

Client Sample ID: HIMW-26I

Date Collected: 03/12/20 07:10
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	111		39 - 150	03/15/20 07:49	03/16/20 00:38	1

Client Sample ID: HIMW-26D

Date Collected: 03/12/20 07:55
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 00:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 00:26	1
Toluene	0.40	J	1.0	0.38	ug/L			03/17/20 00:26	1
Xylenes, Total	27		2.0	0.65	ug/L			03/17/20 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 123		03/17/20 00:26	1
4-Bromofluorobenzene	111		76 - 120		03/17/20 00:26	1
Dibromofluoromethane (Surr)	110		77 - 124		03/17/20 00:26	1
Toluene-d8 (Surr)	104		80 - 120		03/17/20 00:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	280		50	5.5	ug/L		03/15/20 07:49	03/16/20 09:00	5
Acenaphthene	5.7	J	50	5.4	ug/L		03/15/20 07:49	03/16/20 09:00	5
Acenaphthylene	72		50	4.1	ug/L		03/15/20 07:49	03/16/20 09:00	5
Anthracene	50	U	50	3.2	ug/L		03/15/20 07:49	03/16/20 09:00	5
Benzo[a]anthracene	5.0	U	5.0	3.0	ug/L		03/15/20 07:49	03/16/20 09:00	5
Benzo[a]pyrene	5.0	U	5.0	2.0	ug/L		03/15/20 07:49	03/16/20 09:00	5
Benzo[b]fluoranthene	10	U	10	3.4	ug/L		03/15/20 07:49	03/16/20 09:00	5
Benzo[g,h,i]perylene	50	U	50	7.1	ug/L		03/15/20 07:49	03/16/20 09:00	5
Benzo[k]fluoranthene	5.0	U	5.0	3.4	ug/L		03/15/20 07:49	03/16/20 09:00	5
Chrysene	10	U	10	4.5	ug/L		03/15/20 07:49	03/16/20 09:00	5
Dibenz(a,h)anthracene	5.0	U	5.0	3.6	ug/L		03/15/20 07:49	03/16/20 09:00	5
Fluoranthene	50	U	50	4.2	ug/L		03/15/20 07:49	03/16/20 09:00	5
Fluorene	15	J	50	4.6	ug/L		03/15/20 07:49	03/16/20 09:00	5
Indeno[1,2,3-cd]pyrene	10	U	10	4.7	ug/L		03/15/20 07:49	03/16/20 09:00	5
Naphthalene	780		50	5.7	ug/L		03/15/20 07:49	03/16/20 09:00	5
Phenanthrene	14	J	50	2.9	ug/L		03/15/20 07:49	03/16/20 09:00	5
Pyrene	50	U	50	8.2	ug/L		03/15/20 07:49	03/16/20 09:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		42 - 127	03/15/20 07:49	03/16/20 09:00	5
Nitrobenzene-d5 (Surr)	95		46 - 137	03/15/20 07:49	03/16/20 09:00	5
Terphenyl-d14 (Surr)	112		39 - 150	03/15/20 07:49	03/16/20 09:00	5

Client Sample ID: HIMW-14I

Date Collected: 03/12/20 09:20
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.80	J	1.0	0.20	ug/L			03/17/20 00:49	1

Client Sample ID: HIMW-14I

Date Collected: 03/12/20 09:20
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 00:49	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 00:49	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*03/17/20 00:49*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/17/20 00:49*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*03/17/20 00:49*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*03/17/20 00:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 01:20	1
Acenaphthene	**4.1**	**J**	10	1.1	ug/L		03/15/20 07:49	03/16/20 01:20	1
Acenaphthylene	**5.0**	**J**	10	0.82	ug/L		03/15/20 07:49	03/16/20 01:20	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/16/20 01:20	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/16/20 01:20	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/16/20 01:20	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/16/20 01:20	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/16/20 01:20	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/16/20 01:20	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/16/20 01:20	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/16/20 01:20	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/16/20 01:20	1
Fluorene	**1.4**	**J**	10	0.91	ug/L		03/15/20 07:49	03/16/20 01:20	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/16/20 01:20	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 01:20	1
Phenanthrene	**1.7**	**J**	10	0.58	ug/L		03/15/20 07:49	03/16/20 01:20	1
Pyrene	10	U J	10	1.6	ug/L		03/15/20 07:49	03/16/20 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*42 - 127*	*03/15/20 07:49*	*03/16/20 01:20*	*1*
Nitrobenzene-d5 (Surr)	*81*		*46 - 137*	*03/15/20 07:49*	*03/16/20 01:20*	*1*
Terphenyl-d14 (Surr)	*112*		*39 - 150*	*03/15/20 07:49*	*03/16/20 01:20*	*1*

Client Sample ID: HIMW-14D

Date Collected: 03/12/20 10:20
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 01:11	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 01:11	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 01:11	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 123*		*03/17/20 01:11*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/17/20 01:11*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 124*		*03/17/20 01:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/17/20 01:11*	*1*

Client Sample ID: HIMW-14D

Date Collected: 03/12/20 10:20
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 01:41	1
Acenaphthene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 01:41	1
Acenaphthylene	10	U	10	0.82	ug/L		03/15/20 07:49	03/16/20 01:41	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/16/20 01:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/16/20 01:41	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/16/20 01:41	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/16/20 01:41	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/16/20 01:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/16/20 01:41	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/16/20 01:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/16/20 01:41	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/16/20 01:41	1
Fluorene	10	U	10	0.91	ug/L		03/15/20 07:49	03/16/20 01:41	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/16/20 01:41	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 01:41	1
Phenanthrene	10	U	10	0.58	ug/L		03/15/20 07:49	03/16/20 01:41	1
Pyrene	10	U J.	10	1.6	ug/L		03/15/20 07:49	03/16/20 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*42 - 127*	*03/15/20 07:49*	*03/16/20 01:41*	*1*
Nitrobenzene-d5 (Surr)	*85*		*46 - 137*	*03/15/20 07:49*	*03/16/20 01:41*	*1*
Terphenyl-d14 (Surr)	*115*		*39 - 150*	*03/15/20 07:49*	*03/16/20 01:41*	*1*

Client Sample ID: HIMW-15I

Date Collected: 03/12/20 12:30
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 01:34	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 01:34	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 01:34	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*03/17/20 01:34*	*1*
4-Bromofluorobenzene	*103*		*76 - 120*		*03/17/20 01:34*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*03/17/20 01:34*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*03/17/20 01:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:02	1
Acenaphthene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:02	1
Acenaphthylene	**2.0**	J	10	0.82	ug/L		03/15/20 07:49	03/16/20 02:02	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/16/20 02:02	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/16/20 02:02	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/16/20 02:02	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/16/20 02:02	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/16/20 02:02	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/16/20 02:02	1

Client Sample ID: HIMW-15I

Date Collected: 03/12/20 12:30
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/16/20 02:02	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/16/20 02:02	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/16/20 02:02	1
Fluorene	10	U	10	0.91	ug/L		03/15/20 07:49	03/16/20 02:02	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/16/20 02:02	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:02	1
Phenanthrene	10	U	10	0.58	ug/L		03/15/20 07:49	03/16/20 02:02	1
Pyrene	10	U J-	10	1.6	ug/L		03/15/20 07:49	03/16/20 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 127*	*03/15/20 07:49*	*03/16/20 02:02*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 137*	*03/15/20 07:49*	*03/16/20 02:02*	*1*
Terphenyl-d14 (Surr)	*121*		*39 - 150*	*03/15/20 07:49*	*03/16/20 02:02*	*1*

Client Sample ID: HIMW-15D

Date Collected: 03/12/20 11:45
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 01:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 01:56	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 01:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 123*		*03/17/20 01:56*	*1*
4-Bromofluorobenzene	*93*		*76 - 120*		*03/17/20 01:56*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*03/17/20 01:56*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/17/20 01:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:22	1
Acenaphthene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:22	1
Acenaphthylene	10	U	10	0.82	ug/L		03/15/20 07:49	03/16/20 02:22	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/16/20 02:22	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/16/20 02:22	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/16/20 02:22	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/16/20 02:22	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/16/20 02:22	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/16/20 02:22	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/16/20 02:22	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/16/20 02:22	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/16/20 02:22	1
Fluorene	10	U	10	0.91	ug/L		03/15/20 07:49	03/16/20 02:22	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/16/20 02:22	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:22	1
Phenanthrene	10	U	10	0.58	ug/L		03/15/20 07:49	03/16/20 02:22	1
Pyrene	10	U J-	10	1.6	ug/L		03/15/20 07:49	03/16/20 02:22	1

Client Sample ID: HIMW-15D

Date Collected: 03/12/20 11:45
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		42 - 127	03/15/20 07:49	03/16/20 02:22	1
Nitrobenzene-d5 (Surr)	90		46 - 137	03/15/20 07:49	03/16/20 02:22	1
Terphenyl-d14 (Surr)	142		39 - 150	03/15/20 07:49	03/16/20 02:22	1

Client Sample ID: HIMW-22

Date Collected: 03/12/20 13:30
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 02:19	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 02:19	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 02:19	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 123		03/17/20 02:19	1
4-Bromofluorobenzene	97		76 - 120		03/17/20 02:19	1
Dibromofluoromethane (Surr)	110		77 - 124		03/17/20 02:19	1
Toluene-d8 (Surr)	93		80 - 120		03/17/20 02:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:43	1
Acenaphthene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:43	1
Acenaphthylene	10	U	10	0.82	ug/L		03/15/20 07:49	03/16/20 02:43	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/16/20 02:43	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/16/20 02:43	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/16/20 02:43	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/16/20 02:43	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/16/20 02:43	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/16/20 02:43	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/16/20 02:43	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/16/20 02:43	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/16/20 02:43	1
Fluorene	10	U	10	0.91	ug/L		03/15/20 07:49	03/16/20 02:43	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/16/20 02:43	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/16/20 02:43	1
Phenanthrene	10	U	10	0.58	ug/L		03/15/20 07:49	03/16/20 02:43	1
Pyrene	10	U J	10	1.6	ug/L		03/15/20 07:49	03/16/20 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		42 - 127	03/15/20 07:49	03/16/20 02:43	1
Nitrobenzene-d5 (Surr)	77		46 - 137	03/15/20 07:49	03/16/20 02:43	1
Terphenyl-d14 (Surr)	100		39 - 150	03/15/20 07:49	03/16/20 02:43	1

Client Sample ID: HIMW-23

Date Collected: 03/12/20 14:30
Date Received: 03/12/20 19:00

Lab Sample ID: 460-205013-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 02:42	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 02:42	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 02:42	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*03/17/20 02:42*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*03/17/20 02:42*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*03/17/20 02:42*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/17/20 02:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/15/20 23:35	1
Acenaphthene	10	U	10	1.1	ug/L		03/15/20 07:49	03/15/20 23:35	1
Acenaphthylene	10	U	10	0.82	ug/L		03/15/20 07:49	03/15/20 23:35	1
Anthracene	10	U	10	0.63	ug/L		03/15/20 07:49	03/15/20 23:35	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/15/20 07:49	03/15/20 23:35	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		03/15/20 07:49	03/15/20 23:35	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/15/20 07:49	03/15/20 23:35	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/15/20 07:49	03/15/20 23:35	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/15/20 07:49	03/15/20 23:35	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/15/20 07:49	03/15/20 23:35	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/15/20 07:49	03/15/20 23:35	1
Fluoranthene	10	U	10	0.84	ug/L		03/15/20 07:49	03/15/20 23:35	1
Fluorene	10	U	10	0.91	ug/L		03/15/20 07:49	03/15/20 23:35	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/15/20 07:49	03/15/20 23:35	1
Naphthalene	10	U	10	1.1	ug/L		03/15/20 07:49	03/15/20 23:35	1
Phenanthrene	10	U	10	0.58	ug/L		03/15/20 07:49	03/15/20 23:35	1
Pyrene	10	U J	10	1.6	ug/L		03/15/20 07:49	03/15/20 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*124*		*42 - 127*	*03/15/20 07:49*	*03/15/20 23:35*	*1*
Nitrobenzene-d5 (Surr)	*144*	*	*46 - 137*	*03/15/20 07:49*	*03/15/20 23:35*	*1*
Terphenyl-d14 (Surr)	*202*	*	*39 - 150*	*03/15/20 07:49*	*03/15/20 23:35*	*1*

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777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

NYC

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): CHRIS MORRIS	Samplers Name (Printed): R SAKALAUSKAS	Site/Project Identification: HEMPSTEAD INTERSECTION / DOWNSTATE NAT GRID
Company: GEI CONSULTANTS P.C	P.O. #: 1905774.15.3	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 110 WALT WHITMAN RD SUITE 224	Analysis Turnaround Time: Standard ☒	Regulatory Program: DKQP: ☐
City: HUNTINGTON STATION State: NY 11746	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: (631) 760-9300 Fax: (631) 760-9301		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 205013

Sample Identification	Date	Time	Matrix	No. of Cont.	BTEX (8260C)	PAH (8270D)	Sample Numbers
TB031220	3/12/20	—	GW	2	X		1
HIMW-26I		710		5	X	X	2
HIMW-26D		755		5	X	X	3
HIMW-14I		920		5	X	X	4
HIMW-14D		1020		5	X	X	5
HIMW-15I		1230		5	X	X	6
HIMW-15D		1145		5	X	X	7
HIMW-22		1330		5	X	X	8
HIM W-23		1430		15	X	X	MS/MSD 9

460-205013 Chain of Custody

5-Day RUSH

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil:
Water:

Special Instructions: CAT B REPORT / MELISSA HAAS PM

Water Metals Filtered (Yes/No)?

	Company	Date / Time	Received by	Company
Relinquished by 1)	GEI CONSULTANTS	3/12/20	Received by 1)	
Relinquished by 2)		3/13/20 1610	Received by 2)	
Relinquished by 3)		3/13/20 1900	Received by 3)	TAEdr
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

3.2 IR 11

Client Sample ID: TB031320

Date Collected: 03/13/20 00:00
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 12:20	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 12:20	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 12:20	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 123*		*03/17/20 12:20*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/17/20 12:20*	*1*
Dibromofluoromethane (Surr)	*87*		*77 - 124*		*03/17/20 12:20*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/17/20 12:20*	*1*

Client Sample ID: HIMW-25

Date Collected: 03/13/20 08:05
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 15:55	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 15:55	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 15:55	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 123*		*03/17/20 15:55*	*1*
4-Bromofluorobenzene	*109*		*76 - 120*		*03/17/20 15:55*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*03/17/20 15:55*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/17/20 15:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/17/20 09:14	03/17/20 23:45	1
Acenaphthene	10	U	10	1.1	ug/L		03/17/20 09:14	03/17/20 23:45	1
Acenaphthylene	10	U	10	0.82	ug/L		03/17/20 09:14	03/17/20 23:45	1
Anthracene	10	U	10	0.63	ug/L		03/17/20 09:14	03/17/20 23:45	1
Benzo[a]anthracene	1.0	UJ	1.0	0.59	ug/L		03/17/20 09:14	03/17/20 23:45	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/17/20 09:14	03/17/20 23:45	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/17/20 09:14	03/17/20 23:45	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/17/20 09:14	03/17/20 23:45	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/17/20 09:14	03/17/20 23:45	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/17/20 09:14	03/17/20 23:45	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/17/20 09:14	03/17/20 23:45	1
Fluoranthene	10	U	10	0.84	ug/L		03/17/20 09:14	03/17/20 23:45	1
Fluorene	10	U	10	0.91	ug/L		03/17/20 09:14	03/17/20 23:45	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/17/20 09:14	03/17/20 23:45	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/17/20 09:14	03/17/20 23:45	1
Phenanthrene	10	U	10	0.58	ug/L		03/17/20 09:14	03/17/20 23:45	1
Pyrene	10	U	10	1.6	ug/L		03/17/20 09:14	03/17/20 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*42 - 127*	*03/17/20 09:14*	*03/17/20 23:45*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 137*	*03/17/20 09:14*	*03/17/20 23:45*	*1*

AM 4/7/20

Client Sample ID: HIMW-25

Date Collected: 03/13/20 08:05
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	83		39 - 150	03/17/20 09:14	03/17/20 23:45	1

Client Sample ID: HIMW-24

Date Collected: 03/13/20 09:05
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 16:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 16:18	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 16:18	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 123		03/17/20 16:18	1
4-Bromofluorobenzene	97		76 - 120		03/17/20 16:18	1
Dibromofluoromethane (Surr)	96		77 - 124		03/17/20 16:18	1
Toluene-d8 (Surr)	97		80 - 120		03/17/20 16:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/17/20 09:14	03/18/20 00:06	1
Acenaphthene	10	U	10	1.1	ug/L		03/17/20 09:14	03/18/20 00:06	1
Acenaphthylene	10	U	10	0.82	ug/L		03/17/20 09:14	03/18/20 00:06	1
Anthracene	10	U	10	0.63	ug/L		03/17/20 09:14	03/18/20 00:06	1
Benzo[a]anthracene	1.0	UJ	1.0	0.59	ug/L		03/17/20 09:14	03/18/20 00:06	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/17/20 09:14	03/18/20 00:06	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/17/20 09:14	03/18/20 00:06	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/17/20 09:14	03/18/20 00:06	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/17/20 09:14	03/18/20 00:06	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/17/20 09:14	03/18/20 00:06	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/17/20 09:14	03/18/20 00:06	1
Fluoranthene	10	U	10	0.84	ug/L		03/17/20 09:14	03/18/20 00:06	1
Fluorene	10	U	10	0.91	ug/L		03/17/20 09:14	03/18/20 00:06	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/17/20 09:14	03/18/20 00:06	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/17/20 09:14	03/18/20 00:06	1
Phenanthrene	10	U	10	0.58	ug/L		03/17/20 09:14	03/18/20 00:06	1
Pyrene	10	U	10	1.6	ug/L		03/17/20 09:14	03/18/20 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		42 - 127	03/17/20 09:14	03/18/20 00:06	1
Nitrobenzene-d5 (Surr)	80		46 - 137	03/17/20 09:14	03/18/20 00:06	1
Terphenyl-d14 (Surr)	76		39 - 150	03/17/20 09:14	03/18/20 00:06	1

Client Sample ID: HIMW-20S

Date Collected: 03/13/20 10:40
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 16:42	1

Client Sample ID: HIMW-20S

Date Collected: 03/13/20 10:40
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 16:42	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 16:42	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 123*		*03/17/20 16:42*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*03/17/20 16:42*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*03/17/20 16:42*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/17/20 16:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/17/20 09:14	03/18/20 00:27	1
Acenaphthene	10	U	10	1.1	ug/L		03/17/20 09:14	03/18/20 00:27	1
Acenaphthylene	10	U	10	0.82	ug/L		03/17/20 09:14	03/18/20 00:27	1
Anthracene	10	U	10	0.63	ug/L		03/17/20 09:14	03/18/20 00:27	1
Benzo[a]anthracene	1.0	UJ	1.0	0.59	ug/L		03/17/20 09:14	03/18/20 00:27	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/17/20 09:14	03/18/20 00:27	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/17/20 09:14	03/18/20 00:27	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/17/20 09:14	03/18/20 00:27	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/17/20 09:14	03/18/20 00:27	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/17/20 09:14	03/18/20 00:27	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/17/20 09:14	03/18/20 00:27	1
Fluoranthene	10	U	10	0.84	ug/L		03/17/20 09:14	03/18/20 00:27	1
Fluorene	10	U	10	0.91	ug/L		03/17/20 09:14	03/18/20 00:27	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/17/20 09:14	03/18/20 00:27	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/17/20 09:14	03/18/20 00:27	1
Phenanthrene	10	U	10	0.58	ug/L		03/17/20 09:14	03/18/20 00:27	1
Pyrene	10	U	10	1.6	ug/L		03/17/20 09:14	03/18/20 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 127*	*03/17/20 09:14*	*03/18/20 00:27*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 137*	*03/17/20 09:14*	*03/18/20 00:27*	*1*
Terphenyl-d14 (Surr)	*84*		*39 - 150*	*03/17/20 09:14*	*03/18/20 00:27*	*1*

Client Sample ID: HIMW-20I

Date Collected: 03/13/20 11:30
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/17/20 17:06	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/17/20 17:06	1
Toluene	1.0	U	1.0	0.38	ug/L			03/17/20 17:06	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/17/20 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 123*		*03/17/20 17:06*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*03/17/20 17:06*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 124*		*03/17/20 17:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/17/20 17:06*	*1*

Client Sample ID: HIMW-20I
Date Collected: 03/13/20 11:30
Date Received: 03/13/20 18:00

Lab Sample ID: 460-205080-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/17/20 09:14	03/18/20 00:48	1
Acenaphthene	10	U	10	1.1	ug/L		03/17/20 09:14	03/18/20 00:48	1
Acenaphthylene	10	U	10	0.82	ug/L		03/17/20 09:14	03/18/20 00:48	1
Anthracene	10	U	10	0.63	ug/L		03/17/20 09:14	03/18/20 00:48	1
Benzo[a]anthracene	1.0	UJ	1.0	0.59	ug/L		03/17/20 09:14	03/18/20 00:48	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/17/20 09:14	03/18/20 00:48	1
Benzo[b]fluoranthene	2.0	U	2.0	0.68	ug/L		03/17/20 09:14	03/18/20 00:48	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/17/20 09:14	03/18/20 00:48	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/17/20 09:14	03/18/20 00:48	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/17/20 09:14	03/18/20 00:48	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/17/20 09:14	03/18/20 00:48	1
Fluoranthene	10	U	10	0.84	ug/L		03/17/20 09:14	03/18/20 00:48	1
Fluorene	10	U	10	0.91	ug/L		03/17/20 09:14	03/18/20 00:48	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/17/20 09:14	03/18/20 00:48	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/17/20 09:14	03/18/20 00:48	1
Phenanthrene	10	U	10	0.58	ug/L		03/17/20 09:14	03/18/20 00:48	1
Pyrene	10	U	10	1.6	ug/L		03/17/20 09:14	03/18/20 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*42 - 127*	*03/17/20 09:14*	*03/18/20 00:48*	*1*
Nitrobenzene-d5 (Surr)	*98*		*46 - 137*	*03/17/20 09:14*	*03/18/20 00:48*	*1*
Terphenyl-d14 (Surr)	*90*		*39 - 150*	*03/17/20 09:14*	*03/18/20 00:48*	*1*

777 New Durham Road
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page ___ of ___

Name (for report and invoice) CHRIS MORRIS	Samplers Name (Printed) K SAVALAUSKAS	Site/Project Identification HEMPSTEAD INTERSECTION / DOUGSTATE NAT GRID
Company GEI CONSULTANTS PC	P.O.# 1905774.153	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 110 WALT WHITMAN RD SUITE 204	Analysis Turnaround Time: Standard ☒	Regulatory Program: DKQP: ☐
City HUNTINGTON STATION State NY 11746	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone (631)760-9300 Fax (631)760-9301		Job No: 205080

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	BTEX (8260)	PAH (8270D)	Sample Numbers
TB031320	3/13/20	—	GW	2	X		1
HIMW-25		805		5	X	X	2
HIMW-24		905		5	X	X	3
HIMW-20S		1040		5	X	X	4
HIMW-20I		1130		5	X	X	5

5-Day RUSH

460-205080 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____ Soil: Water:

Special Instructions CAT B REPORT / PM MELISSA HAAS

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1)	GEI CONSULTANTS	3/13/20 1406	1)	
2)	TA	3/13/20 1800	2)	
3)	TA	3/13/20 1800	3)	TAEdi
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Client Sample ID: TB-031620

Date Collected: 03/16/20 00:00
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/19/20 12:29	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/19/20 12:29	1
Toluene	1.0	U	1.0	0.38	ug/L			03/19/20 12:29	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/19/20 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 123*		*03/19/20 12:29*	*1*
4-Bromofluorobenzene	*126*	*	*76 - 120*		*03/19/20 12:29*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*03/19/20 12:29*	*1*
Toluene-d8 (Surr)	*119*		*80 - 120*		*03/19/20 12:29*	*1*

Client Sample ID: FB-031620

Date Collected: 03/16/20 13:30
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/19/20 12:53	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/19/20 12:53	1
Toluene	**0.49**	J	1.0	0.38	ug/L			03/19/20 12:53	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/19/20 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 123*		*03/19/20 12:53*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*03/19/20 12:53*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*03/19/20 12:53*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*03/19/20 12:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/18/20 23:17	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/18/20 23:17	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/18/20 23:17	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/18/20 23:17	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/18/20 23:17	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/18/20 09:02	03/18/20 23:17	1
Benzo[b]fluoranthene	2.0	UJ	2.0	0.68	ug/L		03/18/20 09:02	03/18/20 23:17	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/18/20 23:17	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/18/20 23:17	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/18/20 23:17	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/18/20 23:17	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/18/20 23:17	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/18/20 23:17	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/18/20 23:17	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/18/20 23:17	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/18/20 23:17	1
Pyrene	10	UJ	10	1.6	ug/L		03/18/20 09:02	03/18/20 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 127*	*03/18/20 09:02*	*03/18/20 23:17*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 137*	*03/18/20 09:02*	*03/18/20 23:17*	*1*

AM 4/7/20

Client Sample ID: FB-031620

Date Collected: 03/16/20 13:30
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*98*		*39 - 150*	*03/18/20 09:02*	*03/18/20 23:17*	*1*

Client Sample ID: HIMW-03S

Date Collected: 03/16/20 09:30
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/18/20 03:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/18/20 03:56	1
Toluene	1.0	U	1.0	0.38	ug/L			03/18/20 03:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/18/20 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 123*		*03/18/20 03:56*	*1*
4-Bromofluorobenzene	*97*		*76 - 120*		*03/18/20 03:56*	*1*
Dibromofluoromethane (Surr)	*114*		*77 - 124*		*03/18/20 03:56*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/18/20 03:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/18/20 23:38	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/18/20 23:38	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/18/20 23:38	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/18/20 23:38	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/18/20 23:38	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/18/20 09:02	03/18/20 23:38	1
Benzo[b]fluoranthene	2.0	UJ	2.0	0.68	ug/L		03/18/20 09:02	03/18/20 23:38	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/18/20 23:38	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/18/20 23:38	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/18/20 23:38	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/18/20 23:38	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/18/20 23:38	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/18/20 23:38	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/18/20 23:38	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/18/20 23:38	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/18/20 23:38	1
Pyrene	10	UJ	10	1.6	ug/L		03/18/20 09:02	03/18/20 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*42 - 127*	*03/18/20 09:02*	*03/18/20 23:38*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 137*	*03/18/20 09:02*	*03/18/20 23:38*	*1*
Terphenyl-d14 (Surr)	*104*		*39 - 150*	*03/18/20 09:02*	*03/18/20 23:38*	*1*

Client Sample ID: HIMW-03I

Date Collected: 03/16/20 10:55
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/18/20 04:19	1

Client Sample ID: HIMW-03I

Date Collected: 03/16/20 10:55
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/18/20 04:19	1
Toluene	1.0	U	1.0	0.38	ug/L			03/18/20 04:19	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/18/20 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*		*03/18/20 04:19*	*1*
4-Bromofluorobenzene	*94*		*76 - 120*		*03/18/20 04:19*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*03/18/20 04:19*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/18/20 04:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/18/20 23:59	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/18/20 23:59	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/18/20 23:59	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/18/20 23:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/18/20 23:59	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/18/20 09:02	03/18/20 23:59	1
Benzo[b]fluoranthene	2.0	UJ	2.0	0.68	ug/L		03/18/20 09:02	03/18/20 23:59	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/18/20 23:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/18/20 23:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/18/20 23:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/18/20 23:59	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/18/20 23:59	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/18/20 23:59	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/18/20 23:59	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/18/20 23:59	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/18/20 23:59	1
Pyrene	10	UJ	10	1.6	ug/L		03/18/20 09:02	03/18/20 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*42 - 127*	*03/18/20 09:02*	*03/18/20 23:59*	*1*
Nitrobenzene-d5 (Surr)	*105*		*46 - 137*	*03/18/20 09:02*	*03/18/20 23:59*	*1*
Terphenyl-d14 (Surr)	*112*		*39 - 150*	*03/18/20 09:02*	*03/18/20 23:59*	*1*

Client Sample ID: HIMW-03D

Date Collected: 03/16/20 12:45
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/18/20 04:42	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/18/20 04:42	1
Toluene	1.0	U	1.0	0.38	ug/L			03/18/20 04:42	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/18/20 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 123*		*03/18/20 04:42*	*1*
4-Bromofluorobenzene	*110*		*76 - 120*		*03/18/20 04:42*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 124*		*03/18/20 04:42*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/18/20 04:42*	*1*

Client Sample ID: HIMW-03D

Date Collected: 03/16/20 12:45
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 00:20	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 00:20	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/19/20 00:20	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/19/20 00:20	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/19/20 00:20	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/18/20 09:02	03/19/20 00:20	1
Benzo[b]fluoranthene	2.0	UJ	2.0	0.68	ug/L		03/18/20 09:02	03/19/20 00:20	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/19/20 00:20	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/19/20 00:20	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/19/20 00:20	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/19/20 00:20	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/19/20 00:20	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/19/20 00:20	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/19/20 00:20	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/19/20 00:20	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/19/20 00:20	1
Pyrene	10	UJ	10	1.6	ug/L		03/18/20 09:02	03/19/20 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*42 - 127*	*03/18/20 09:02*	*03/19/20 00:20*	*1*
Nitrobenzene-d5 (Surr)	*116*		*46 - 137*	*03/18/20 09:02*	*03/19/20 00:20*	*1*
Terphenyl-d14 (Surr)	*116*		*39 - 150*	*03/18/20 09:02*	*03/19/20 00:20*	*1*

Client Sample ID: HIMW-05S

Date Collected: 03/16/20 07:55
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/18/20 05:04	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/18/20 05:04	1
Toluene	1.0	U	1.0	0.38	ug/L			03/18/20 05:04	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/18/20 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*03/18/20 05:04*	*1*
4-Bromofluorobenzene	*95*		*76 - 120*		*03/18/20 05:04*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*03/18/20 05:04*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/18/20 05:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 00:41	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 00:41	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/19/20 00:41	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/19/20 00:41	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/19/20 00:41	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/18/20 09:02	03/19/20 00:41	1
Benzo[b]fluoranthene	2.0	UJ	2.0	0.68	ug/L		03/18/20 09:02	03/19/20 00:41	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/19/20 00:41	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/19/20 00:41	1

Client Sample ID: HIMW-05S

Date Collected: 03/16/20 07:55
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/19/20 00:41	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/19/20 00:41	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/19/20 00:41	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/19/20 00:41	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/19/20 00:41	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/19/20 00:41	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/19/20 00:41	1
Pyrene	10	UJ	10	1.6	ug/L		03/18/20 09:02	03/19/20 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*42 - 127*	*03/18/20 09:02*	*03/19/20 00:41*	*1*
Nitrobenzene-d5 (Surr)	*124*		*46 - 137*	*03/18/20 09:02*	*03/19/20 00:41*	*1*
Terphenyl-d14 (Surr)	*127*		*39 - 150*	*03/18/20 09:02*	*03/19/20 00:41*	*1*

Client Sample ID: DUP-02

Date Collected: 03/16/20 00:00
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/18/20 05:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/18/20 05:31	1
Toluene	1.0	U	1.0	0.38	ug/L			03/18/20 05:31	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/18/20 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*03/18/20 05:31*	*1*
4-Bromofluorobenzene	*102*		*76 - 120*		*03/18/20 05:31*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/18/20 05:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/18/20 05:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 01:01	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 01:01	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/19/20 01:01	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/19/20 01:01	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/19/20 01:01	1
Benzo[a]pyrene	1.0	UJ	1.0	0.41	ug/L		03/18/20 09:02	03/19/20 01:01	1
Benzo[b]fluoranthene	2.0	UJ	2.0	0.68	ug/L		03/18/20 09:02	03/19/20 01:01	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/19/20 01:01	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/19/20 01:01	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/19/20 01:01	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/19/20 01:01	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/19/20 01:01	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/19/20 01:01	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/19/20 01:01	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/19/20 01:01	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/19/20 01:01	1
Pyrene	10	UJ	10	1.6	ug/L		03/18/20 09:02	03/19/20 01:01	1

Client Sample ID: DUP-02

Date Collected: 03/16/20 00:00
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		42 - 127	03/18/20 09:02	03/19/20 01:01	1
Nitrobenzene-d5 (Surr)	105		46 - 137	03/18/20 09:02	03/19/20 01:01	1
Terphenyl-d14 (Surr)	109		39 - 150	03/18/20 09:02	03/19/20 01:01	1

Client Sample ID: HIMW-12S

Date Collected: 03/16/20 08:30
Date Received: 03/16/20 19:00

Lab Sample ID: 460-205165-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/18/20 05:53	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/18/20 05:53	1
Toluene	1.0	U	1.0	0.38	ug/L			03/18/20 05:53	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/18/20 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 123		03/18/20 05:53	1
4-Bromofluorobenzene	104		76 - 120		03/18/20 05:53	1
Dibromofluoromethane (Surr)	117		77 - 124		03/18/20 05:53	1
Toluene-d8 (Surr)	102		80 - 120		03/18/20 05:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 01:22	1
Acenaphthene	10	U	10	1.1	ug/L		03/18/20 09:02	03/19/20 01:22	1
Acenaphthylene	10	U	10	0.82	ug/L		03/18/20 09:02	03/19/20 01:22	1
Anthracene	10	U	10	0.63	ug/L		03/18/20 09:02	03/19/20 01:22	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		03/18/20 09:02	03/19/20 01:22	1
Benzo[a]pyrene	1.0	UJ -	1.0	0.41	ug/L		03/18/20 09:02	03/19/20 01:22	1
Benzo[b]fluoranthene	2.0	UJ -	2.0	0.68	ug/L		03/18/20 09:02	03/19/20 01:22	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		03/18/20 09:02	03/19/20 01:22	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		03/18/20 09:02	03/19/20 01:22	1
Chrysene	2.0	U	2.0	0.91	ug/L		03/18/20 09:02	03/19/20 01:22	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		03/18/20 09:02	03/19/20 01:22	1
Fluoranthene	10	U	10	0.84	ug/L		03/18/20 09:02	03/19/20 01:22	1
Fluorene	10	U	10	0.91	ug/L		03/18/20 09:02	03/19/20 01:22	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.94	ug/L		03/18/20 09:02	03/19/20 01:22	1
Naphthalene	2.0	U	2.0	1.1	ug/L		03/18/20 09:02	03/19/20 01:22	1
Phenanthrene	10	U	10	0.58	ug/L		03/18/20 09:02	03/19/20 01:22	1
Pyrene	10	UJ -	10	1.6	ug/L		03/18/20 09:02	03/19/20 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		42 - 127	03/18/20 09:02	03/19/20 01:22	1
Nitrobenzene-d5 (Surr)	106		46 - 137	03/18/20 09:02	03/19/20 01:22	1
Terphenyl-d14 (Surr)	112		39 - 150	03/18/20 09:02	03/19/20 01:22	1

Chain of Custody Record 410851

eurofins | Environment Testing TestAmerica

Address:

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Lots 165 NYC 23

Client Contact	Project Manager: Chris Morris	Site Contact: Mike Avinlan	Date: 3/16/20	COC No:
Company Name: GEI Consultants Inc. P.C.	Tel/Email: (631) 759-2967	Lab Contact: Melissa Haas	Carrier: Test America	1 of 1 COCs
Address: 110 Walt Whitman Rd. Suite 204	Analysis Turnaround Time			Sampler: GW & RS
City/State/Zip: Huntington Station, NY 11746	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (631) 760-9300	TAT if different from Below: Standard			Walk-in Client:
Fax: (631) 760-9301	☐ 2 weeks			Lab Sampling:
Project Name: National Grid Ogwastate	☐ 1 week			
Site: Hempstead Intersection	☐ 2 days			Job / SDG No.:
PO # 1905774.15.3	☐ 1 day			

5-Day RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX 8260C	PAH+2-methylnaphthalene 8270D	Sample Specific Notes:
TB-031620	3/16/20	0:00	G	GW	2			X		1
FB-031620	03/16/20	1330			5			X	X	2
HIMW-03S	3/16/20	0930			5			X	X	3
HIMW-03I		1055			5			X	X	4
HIMW-03D		1245			5			X	X	5
HIMW-05S		0755			5			X	X	6
DUP-02		—			5			X	X	7
HIMW-12S		830			5			X	X	8

460-205165 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: CAT B Report | Melissa Haas PM

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.:
Relinquished by:	Company: GEI Consultants	Date/Time: 3/16/20 1415	Received by:	Company: TA	Date/Time: 3/16/20 1415
Relinquished by:	Company: GEI	Date/Time: 3/16/20 1600	Received by:	Company: FedEx	Date/Time: 3/16/20 17:00
Relinquished by:	Company: GEI	Date/Time: 3/16/20 17:00	Received in Laboratory by:	Company: FedEx	Date/Time: 3/16/20 1900

2.1 2.5 THM4

Client Sample ID: TB031720

Date Collected: 03/17/20 00:00
Date Received: 03/17/20 18:30

Lab Sample ID: 460-205304-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/22/20 16:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/20 16:56	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/20 16:56	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			03/22/20 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*03/22/20 16:56*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*03/22/20 16:56*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*03/22/20 16:56*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*03/22/20 16:56*	*1*

Client Sample ID: HIMW-05I

Date Collected: 03/17/20 07:05
Date Received: 03/17/20 18:30

Lab Sample ID: 460-205304-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/22/20 18:09	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			03/22/20 18:09	1
Toluene	1.0	U	1.0	0.38	ug/L			03/22/20 18:09	1
Xylenes, Total	**25**		2.0	0.65	ug/L			03/22/20 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 123*		*03/22/20 18:09*	*1*
4-Bromofluorobenzene	*90*		*76 - 120*		*03/22/20 18:09*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 124*		*03/22/20 18:09*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/22/20 18:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**86**		50	5.5	ug/L		03/19/20 09:07	03/20/20 22:15	5
Acenaphthene	**9.9**	J	50	5.4	ug/L		03/19/20 09:07	03/20/20 22:15	5
Acenaphthylene	**140**		50	4.1	ug/L		03/19/20 09:07	03/20/20 22:15	5
Anthracene	50	U	50	3.2	ug/L		03/19/20 09:07	03/20/20 22:15	5
Benzo[a]anthracene	5.0	U	5.0	3.0	ug/L		03/19/20 09:07	03/20/20 22:15	5
Benzo[a]pyrene	5.0	U	5.0	2.0	ug/L		03/19/20 09:07	03/20/20 22:15	5
Benzo[b]fluoranthene	10	U	10	3.4	ug/L		03/19/20 09:07	03/20/20 22:15	5
Benzo[g,h,i]perylene	50	U	50	7.1	ug/L		03/19/20 09:07	03/20/20 22:15	5
Benzo[k]fluoranthene	5.0	U	5.0	3.4	ug/L		03/19/20 09:07	03/20/20 22:15	5
Chrysene	10	U	10	4.5	ug/L		03/19/20 09:07	03/20/20 22:15	5
Dibenz(a,h)anthracene	5.0	U	5.0	3.6	ug/L		03/19/20 09:07	03/20/20 22:15	5
Fluoranthene	50	U	50	4.2	ug/L		03/19/20 09:07	03/20/20 22:15	5
Fluorene	**25**	J	50	4.6	ug/L		03/19/20 09:07	03/20/20 22:15	5
Indeno[1,2,3-cd]pyrene	10	U	10	4.7	ug/L		03/19/20 09:07	03/20/20 22:15	5
Naphthalene	**640**		10	5.7	ug/L		03/19/20 09:07	03/20/20 22:15	5
Phenanthrene	**18**	J	50	2.9	ug/L		03/19/20 09:07	03/20/20 22:15	5
Pyrene	50	U	50	8.2	ug/L		03/19/20 09:07	03/20/20 22:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*42 - 127*	*03/19/20 09:07*	*03/20/20 22:15*	*5*
Nitrobenzene-d5 (Surr)	*97*		*46 - 137*	*03/19/20 09:07*	*03/20/20 22:15*	*5*

4/7/20

Client Sample ID: HIMW-05I

Date Collected: 03/17/20 07:05
Date Received: 03/17/20 18:30

Lab Sample ID: 460-205304-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*118*		*39 - 150*	*03/19/20 09:07*	*03/20/20 22:15*	*5*

Client Sample ID: HIMW-05D

Date Collected: 03/17/20 07:45
Date Received: 03/17/20 18:30

Lab Sample ID: 460-205304-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			03/22/20 18:34	1
Ethylbenzene	**1.3**		1.0	0.30	ug/L			03/22/20 18:34	1
Toluene	**32**		1.0	0.38	ug/L			03/22/20 18:34	1
Xylenes, Total	**240**		2.0	0.65	ug/L			03/22/20 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*03/22/20 18:34*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*03/22/20 18:34*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*03/22/20 18:34*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/22/20 18:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**350**		200	22	ug/L		03/19/20 09:07	03/21/20 02:28	20
Acenaphthene	200	U	200	22	ug/L		03/19/20 09:07	03/21/20 02:28	20
Acenaphthylene	**96**	J	200	16	ug/L		03/19/20 09:07	03/21/20 02:28	20
Anthracene	200	U	200	13	ug/L		03/19/20 09:07	03/21/20 02:28	20
Benzo[a]anthracene	20	U	20	12	ug/L		03/19/20 09:07	03/21/20 02:28	20
Benzo[a]pyrene	20	U	20	8.1	ug/L		03/19/20 09:07	03/21/20 02:28	20
Benzo[b]fluoranthene	40	U	40	14	ug/L		03/19/20 09:07	03/21/20 02:28	20
Benzo[g,h,i]perylene	200	U	200	29	ug/L		03/19/20 09:07	03/21/20 02:28	20
Benzo[k]fluoranthene	20	U	20	13	ug/L		03/19/20 09:07	03/21/20 02:28	20
Chrysene	40	U	40	18	ug/L		03/19/20 09:07	03/21/20 02:28	20
Dibenz(a,h)anthracene	20	U	20	14	ug/L		03/19/20 09:07	03/21/20 02:28	20
Fluoranthene	200	U	200	17	ug/L		03/19/20 09:07	03/21/20 02:28	20
Fluorene	200	U	200	18	ug/L		03/19/20 09:07	03/21/20 02:28	20
Indeno[1,2,3-cd]pyrene	40	U	40	19	ug/L		03/19/20 09:07	03/21/20 02:28	20
Naphthalene	**1900**		40	23	ug/L		03/19/20 09:07	03/21/20 02:28	20
Phenanthrene	200	U	200	12	ug/L		03/19/20 09:07	03/21/20 02:28	20
Pyrene	200	U	200	33	ug/L		03/19/20 09:07	03/21/20 02:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*96*		*42 - 127*	*03/19/20 09:07*	*03/21/20 02:28*	*20*
Nitrobenzene-d5 (Surr)	*98*		*46 - 137*	*03/19/20 09:07*	*03/21/20 02:28*	*20*
Terphenyl-d14 (Surr)	*126*		*39 - 150*	*03/19/20 09:07*	*03/21/20 02:28*	*20*

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

NYC DOT/STATE NATGRID

Page 1 of 1

Name (for report and invoice): CHRIS MORRIS	Samplers Name (Printed): R SAKALAUSKAS	Site/Project Identification: HEMPSTEAD INTERSECTION
Company: GEI CONSULTANTS PC	P.O. #: 1905774.153	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 110 WALT WHITMAN RD SUITE 204	Analysis Turnaround Time: Standard ☒	Regulatory Program: DKQP: ☐
City: HUNTINGTON STATION State: NY 11746	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 631-760-9300 Fax: 631-760-9301		

Sample Identification	Date	Time	Matrix	No. of Cont.	BTEX (8260C)	DAY (8270D)	Sample Numbers
TB031720	3/17/20	—	GW	2	X		1
HMW-05I	1	705	1	5	X	X	2
HMW-05D	1	745	1	5	X	X	3

LAB USE ONLY
Project No:
Job No: 205304
Sample Numbers

460-205304 Chain of Custody

5-Day RUSH

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil:
Water:

Special Instructions: CAT B REPT | PM MELISSA HAASCH
Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) PT Sullivan	GEI CONSULTANTS	3/17/20 1430	1)	
2)		3/17/20 1618	2) Fremont	
3) Fremont		3/17/20 1830	3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132)
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

3-2 SR 11

Appendix D

Oxygen System Operation & Maintenance Measurements

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/19/19
Time: 0700
Weather: 40 cloudy
Inside Trailer Temperature: Operable
Performed By: Matt Comuto

O_2 Generator

Hours	47732		
Feed Air Pressure *	110	(psi)	
Cycle Pressure * (L / R)	High: 72 / 72	(psi)	
	Low: 2 / 0	(psi)	
Oxygen Receiver Pressure *	68	(psi)	
Oxygen Receiver Tank Pressure (reading from blue tank)	130	(psi)	
Oxygen Purity	78.2	(percent)	

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	172	(°F)
Running Hours	55144	(hours)
Loading Hours	47858	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: No step stool

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	16	31.0	OW-2-9S	75.0	39	20.5	OW-2-10D	97.2	16	27.5
OW-2-3	94.3	68	29.5	OW-2-10S	75.0	28	30.5	OW-2-11D	100.8	0	31.5
OW-2-4	94.7	0	33.0	OW-2-11S	76.5	42	19.0	OW-2-12	94.0	100+	19.0
OW-2-5	95.3	26	30.0	OW-2-13S	75.0	31	19.0	OW-2-13D	97.0	0	36.5
OW-2-6	95.7	38	30.5	OW-2-15S	75.0	32	19.5	OW-2-14	96.4	31	28.5
OW-2-7	96.0	47	30.0	OW-2-16S	75.5	36	19.5	OW-2-15D	94.6	28	30.0
OW-2-8	96.3	29	30.0	OW-2-18S	74.5	36	19.0	OW-2-16D	94.1	34	26.5
OW-2-9D	96.7	29	30.0	OW-2-20S	79.0	35	21.0	OW-2-17	95.0	30	29.0

Comments: **All Points set at 30 scfh**

Notes: Cannot adjust OW-2-11D past 15 SCFH

Date: 3/19/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi	Injection Bank E	Depth (ft)	scfh	psi	Injection Bank F	Depth (ft)	scfh	psi
OW-2-18D	95.5	15	30.5	OW-2-22S	76.0	29	20.0	OW-2-26D	95.0	17	32.0
OW-2-19	96.1	41	29.5	OW-2-24S	77.8	47	22.5	OW-2-27	93.5	19	28.5
OW-2-20D	96.6	68	9.0	OW-2-26S	74.0	44	19.0	OW-2-28D	92.1	15	27.0
OW-2-21	96.6	44	28.0	OW-2-28S	76.0	60	20.5	OW-2-29	92.2	24	28.0
OW-2-22D	96.3	55	27.5	OW-2-30S	67.8	56	16.5	OW-2-30D	88.0	40	26.0
OW-2-23	97.2	Off	—	OW-2-34	71.0	62	19.0	OW-2-31	86.0	18	26.5
OW-2-24D	97.0	Off	—	OW-2-35	69.2	51	21.0	OW-2-32	84.0	28	24.0
OW-2-25	96.0	72	27.5	OW-2-36	64.8	44	17.5	OW-2-33	82.0	22	25.5

Comments: **All Points set at 30 scfh**

No pressure

Injection Bank G	Depth (ft)	scfh	psi	Injection Bank H	Depth (ft)	scfh	psi	Monitoring Point Logs	DTW	DO(mg/L)	PID
OW-2-37	62.8	57	19.0	OW-2-45	61.1	58	19.0	~~MP-2-1~~			
OW-2-38	62.1	53	19.0	OW-2-46	61.0	36	19.0	~~MP-2-2~~			
OW-2-39	60.0	55	18.0	OW-2-47	60.5	48	19.0	~~MP-2-3S~~			
OW-2-40	61.7	100	0.0	-	-			MP-2-SD			
OW-2-241	61.7	100	19.0	-	-			MP-2-4			
OW-2-42	61.6	42	19.5	-	-			MP-2-5			
OW-2-43	61.4	64	3.5	-	-			-	-	-	-
OW-2-44R	60.6	80	19.5	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

NC unable to adjust

turned up flow regulator from 40→50 psi; → now able to adjust flows in bank 6/F

Date: 3/19/19

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed Flow regulator 40→50 psi

4) Supplies needed Fire extinguisher, first aid kit, HASP, hospital route map, contact list, Step Stool, spill kit

5) Visitors None

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/20/19
Time: 0715
Weather: 40 sunny
Inside Trailer Temperature: operable
Performed By: Matt Conrad

O_2 Generator

Hours: 26370

Feed Air Pressure *: 140 (psi)

Cycle Pressure * (L / R) High: 74 | 76 (psi)
Low: 2 | 3 (psi)

Oxygen Receiver Pressure *: 74 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 115 (psi)

Oxygen Purity: 80.0 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 140 (psi)

Delivery Air: 140 (psi)

Element Outlet Temperature: 191 (°F)

Running Hours: 6329 (hours)

Loading Hours: 4529 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Zone 1	Injection Bank 1 Depth (ft)	scfh	psi	Zone 2 Zone 7 Zone 8	Injection Bank 2 Depth (ft)	scfh	psi	Zone 1	Injection Bank 3 Depth (ft)	scfh	psi
OW-1-1	95.5	26	26.0	OW-1-5S	67.3	40	17.0	OW-1-9D	88.5	28	29.0
OW-1-2	96.5	24	0.0 OOC	OW-1-6S	67.0	35	17.5	OW-1-10D	87.2	30	28.5
OW-1-3	96.3	22	30.0	OW-1-7S	66.9	32	17.0	OW-1-11D	86.1	27	29.5
OW-1-4	95.0	44	29.5	OW-1-8S	66.7	38	17.5	OW-1-12D	85.3	30	28.5
OW-1-5D	93.9	29	29.0	OW-1-9S	66.0	32	18.0	OW-1-13D	84.7	26	28.0
OW-1-6D	92.4	28	28.5	OW-1-10S	54.6	54	13.0	OW-1-14D	84.1	29	29.0
OW-1-7D	91.1	32	28.0	OW-1-11S	54.1	51	14.0	OW-1-15D	83.3	27	28.0
OW-1-8D	89.6	30	28.0	OW-1-12S	53.6	31	14.5	OW-1-16D	82.5	25	14.0

Comments: **All Points set at 30 scfh**

Notes:
Point 2 - O pressure,
Shut off

Date: 3/20/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Zone 2 Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	29	13.0
OW-1-14S	52.7	28	14.0
OW-1-15S	52.2	32	12.5
OW-1-16SR	51.8	24	26.0
OW-1-17S	50.7	24	24.0
OW-1-18S	50.2	29	12.0
OW-1-19S	49.7	0 → off	
OW-1-20S	49.3	100 → off	

Zone 3 Zone 8 Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	28	12.5
OW-1-18D	78.3	32	25.5
OW-1-19D	78.9	26	25.5
OW-1-20D	79.5	27	26.0
OW-1-21D	79.5	26	25.5
OW-1-22D	79.5	28	24.5
OW-1-23D	78.7	29	24.5
OW-1-24D	78.2	26	25.5

Zone 3 Zone 7 Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	30	10.5
OW-1-22S	49.3	26	10.5
OW-1-23S	48.8	51	10.5
OW-1-24S	48.4	25	10.5
OW-1-25S	48.8	26	12.0
OW-1-26S	48.3	25	12.0
OW-1-27S	48.3	26	12.5
OW-1-28S	48.3	24	13.0

Comments: pts 19S, 20S 0 pressure

All Points set at 30 scfh

Zone 4 Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	32	26.0
OW-1-26D	78.1	14	26.0
OW-1-27D	77.9	28	26.5
OW-1-28D	78.0	32	26.0
OW-1-29D	78.4	24	25.5
OW-1-30D	79.0	32	27.5
OW-1-31D	80.5	40	0.0 off
OW-1-32D	81.6	30	27.5

Zone 4 Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	30	12.0
OW-1-30S	48.8	28	13.0
OW-1-31S	49.3	32	12.5
OW-1-32S	49.3	28	12.0
OW-1-33S	49.7	23	12.5
OW-1-34S	50.1	32	12.0
OW-1-35S	50.3	26	13.0
OW-1-36S	50.3	26	12.5

Zone 5 Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	37	28.0
OW-1-34D	84.5	33	28.5
OW-1-35D	85.0	57	28.0
OW-1-36D	85.0	46	28.5
OW-1-37D	84.0	31	28.0
OW-1-38D	82.0	48	26.5
OW-1-39D	78.0	54	26.0
OW-1-40D	76.0	100	25.0

Comments:

All points set at 30 scfh

Notes: Point 31D No Pressure - turned off

Date: 3/20/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Zone 5 Injection Bank 10	Depth (ft)	scfh	psi
OW-1-37S	50.5	60	12.0
OW-1-38S	50.6	73	12.5
OW-1-39S	50.7	74	12.0
OW-1-40S	51.1	40	13.0
OW-1-41S	51.5	42	13.0
OW-1-42S	51.3	44	13.0
-	-		
-	-		

Zone 6 Injection Bank 11	Depth (ft)	scfh	psi
OW-1-41D	73.6	32	22.0
OW-1-42D	71.0	31	21.0
OW-1-45	65.7	80	18.5
OW-1-46	64.3	46	17.0
OW-1-47	63.4	46	17.0
OW-1-48	62.5	54	18.0
OW-1-49	61.5	64	16.0
OW-1-50	61.0	46	16.0

Zone 6 Injection Bank 12	Depth (ft)	scfh	psi
OW-1-43	67.4	40	19.5
OW-1-44	66.6	58	18.0
OW-1-51R	60.6	56	16.0
OW-1-52	59.3	60	15.5
OW-1-53	60.0	80	16.0
OW-1-54	60.0	46	15.5
-	-		
-	-		

Comments: **All Points set at 30 scfh**

Injection Bank	Depth (ft)	scfh	psi

Injection Bank	Depth (ft)	scfh	psi

Injection Bank	DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 3/20/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No ____
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed None
4) Supplies needed No Sign in book, fire extinguisher, first aid kit, hospital map, contact list, spill kit
5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 4/24/19
Time: 0600
Weather: 60's, SUNNY, CLEAR
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours	26773	
Feed Air Pressure *	140	(psi)
Cycle Pressure * (L / R) High:	72 / 76	(psi)
Low:	0 / 0	(psi)
Oxygen Receiver Pressure *	~~0~~ 75	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)
Oxygen Purity	80.1	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	~~187~~ 193	(°F)
Running Hours	6784	(hours)
Loading Hours	4858	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-1-1	95.5	28	26
OW-1-2	96.5	POINT	OFF
OW-1-3	96.3	24	30
OW-1-4	95.0	24	30
OW-1-5D	93.9	20	29
OW-1-6D	92.4	26	29
OW-1-7D	91.1	28	28
OW-1-8D	89.6	22	29

Injection Bank 2	Depth (ft)	scfh	psi
OW-1-5S	67.3	① 14 / ② 30	① 17 / ② 17
OW-1-6S	67.0	28 / 28	18 / 18
OW-1-7S	66.9	12 / 32	17 / 17
OW-1-8S	66.7	12 / 30	18 / 18
OW-1-9S	66.0	0 / 32	18 / 18
OW-1-10S	54.6	28 / 30	13 / 13
OW-1-11S	54.1	12 / 28	14 / 14
OW-1-12S	53.6	10 / 30	15 / 15

Injection Bank 3	Depth (ft)	scfh	psi
OW-1-9D	88.5	28	28
OW-1-10D	87.2	24	27
OW-1-11D	86.1	24	30
OW-1-12D	85.3	24	28
OW-1-13D	84.7	22	28
OW-1-14D	84.1	26	29
OW-1-15D	83.3	18	28
OW-1-16D	82.5	16	14

Comments:
All Points set at 30 scfh
BREAKER FOR BOOSTER PUMP RESET 2X
BANK 2 (3rd injection) 5S - 30 scfh, psi 17 | 7S - 30 scfh, psi 18 | 9S - 30 scfh, psi 18 | 11S - 30 scfh, psi 14
6S - 30 scfh, psi 18 | 8S - 30 scfh, psi 18 | 10S - 30 scfh, psi 13 | 12S - 30 scfh, psi 15

Notes:
~~TUBES~~ INJECTS @ 24 MIN MARK.
✓ ZONE 7 = BANK 2+6
✓ ZONE 8 = BANK 2+5
✓ ZONE 1 = BANK 1+3
✓ ZONE 2 = BANK 2+4
✓ ZONE 3 = BANK 5+6
✓ ZONE 4 = BANK 7+8
ZONE 5 = BANK 9+10
✓ ZONE 6 = BANK 11+12

Date: 4/24/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13
OW-1-14S	52.7	22	14
OW-1-15S	52.2	20	13
OW-1-16SR	51.8	26	26
OW-1-17S	50.7	26	24
OW-1-18S	50.2	28	12
OW-1-19S	49.7	POINT	OFF
OW-1-20S	49.3	POINT	OFF

Injection Bank 5	Depth (ft)	scfh ①	scfh ②	psi ①	psi ②
OW-1-17D	79.5	12	28	13	13
OW-1-18D	78.3	30	28	26	26
OW-1-19D	78.9	22	28	26	26
OW-1-20D	79.5	26	30	26	26
OW-1-21D	79.5	22	32	26	26
OW-1-22D	79.5	26	28	24	25
OW-1-23D	78.7	20	32	25	25
OW-1-24D	78.2	18	28	26	26

Injection Bank 6	Depth (ft)	scfh ①	scfh ②	psi ①	psi ②
OW-1-21S	49.3	18	30	12	11
OW-1-22S	49.3	26	28	11	11
OW-1-23S	48.8	14	32	12	11
OW-1-24S	48.4	16	30	11	11
OW-1-25S	48.8	20	32	12	12
OW-1-26S	48.3	20	30	13	13
OW-1-27S	48.3	18	30	12	13
OW-1-28S	48.3	16	30	14	14

Comments: PTS - OW-1-19S & OW-1-20S HAVE NO PRESSURES TURNED OFF TO OPTIMIZE SYSTEM
All Points set at 30 scfh

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	24	26
OW-1-26D	78.1	26	26
OW-1-27D	77.9	24	27
OW-1-28D	78.0	28	26
OW-1-29D	78.4	22	25
OW-1-30D	79.0	16	28
OW-1-31D	80.5	POINT	OFF
OW-1-32D	81.6	24	28

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	28	12
OW-1-30S	48.8	12	13
OW-1-31S	49.3	22	13
OW-1-32S	49.3	26	12
OW-1-33S	49.7	24	13
OW-1-34S	50.1	20	12
OW-1-35S	50.3	22	14
OW-1-36S	50.3	22	13

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	26	28
OW-1-34D	84.5	24	29
OW-1-35D	85.0	32	28
OW-1-36D	85.0	24	29
OW-1-37D	84.0	24	28
OW-1-38D	82.0	24	27
OW-1-39D	78.0	30	26
OW-1-40D	76.0	36	26

Comments: POINT OW-1-31D HAS NO PRESSURE
All points set at 30 scfh

Notes:

Date: 4/24/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10	Depth (ft)	scfh	psi
OW-1-37S	50.5	0	12
OW-1-38S	50.6	24	13
OW-1-39S	50.7	34	12
OW-1-40S	51.1	32	14
OW-1-41S	51.5	26	14
OW-1-42S	51.3	26	14
-	-		
-	-		

Injection Bank 11	Depth (ft)	scfh	psi
OW-1-41D	73.6	24	22 ~~24~~
OW-1-42D	71.0	26	20
OW-1-45	65.7	28	19 ~~18~~
OW-1-46	64.3	26	18
OW-1-47	63.4	28	17 ~~18.5~~
OW-1-48	62.5	26	18 ~~19~~
OW-1-49	61.5	24	~~18~~ 16
OW-1-50	61.0	24	~~18~~ 16

Injection Bank 12	Depth (ft)	scfh	psi
OW-1-43	67.4	18	20
OW-1-44	66.6	26	~~14~~ 18
OW-1-51R	60.6	26	16
OW-1-52	59.3	30	16
OW-1-53	60.0	24	16
OW-1-54	60.0	20	16
-	-		
-	-		

Comments: **All Points set at 30 scfh**

ZONE 6 IS 11 + 12

39S - leak ?

Injection Bank	Depth (ft)	scfh	psi

Injection Bank	Depth (ft)	scfh	psi

Injection Bank	DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 4/24/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No ____
2) Abnormal conditions observed (e.g. vandalism) NONE
3) Other major activities completed TROUBLE SHOT BOOSTER PUMP / SYSTEM ALARM WHEN ENTERED SYSTEM
4) Supplies needed STEP STOOL / HASP / HOSPITAL ROUTE MAP / FIRE EXTINGUISHER ALL INSTALLED TODAY / NEED FIRST AID KIT
5) Visitors MATT CORRADO

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 4/24/19
Time: 0720
Weather: 60 sunny
Inside Trailer Temperature: warm
Performed By: Matt Combs

O_2 Generator

Hours: 48318
Feed Air Pressure *: 110 (psi)
Cycle Pressure * (L / R) High: 70 | 74 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 70 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 130 (psi)
Oxygen Purity: 78.2 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)
Delivery Air: 110 (psi)
Element Outlet Temperature: 169 (°F)
Running Hours: 55949 (hours)
Loading Hours: 48459 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken - 00999.99

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	26	31.0	OW-2-9S	75.0	38	20.0	OW-2-10D	97.2	26	21.5
OW-2-3	94.3	26	30.0	OW-2-10S	75.0	30	31.0	OW-2-11D	100.8	34	33.0
OW-2-4	94.7	28	35.0	OW-2-11S	76.5	34	13.0	OW-2-12	94.0	30	19.0
OW-2-5	95.3	31	30.0	OW-2-13S	75.0	40	14.0	OW-2-13D	97.0	22	35.0
OW-2-6	95.7	31	31.0	OW-2-15S	75.0	28	19.0	OW-2-14	96.4	27	29.0
OW-2-7	96.0	32	30.0	OW-2-16S	75.5	34	19.5	OW-2-15D	94.6	22	30.5
OW-2-8	96.3	50	30.0	OW-2-18S	74.5	33	19.0	OW-2-16D	94.1	22	26.5
OW-2-9D	96.7	33	30.5	OW-2-20S	79.0	38	21.0	OW-2-17	95.0	28	29.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 4/24/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi	Injection Bank E	Depth (ft)	scfh	psi	Injection Bank F	Depth (ft)	scfh	psi
OW-2-18D	95.5	14	31.0	OW-2-22S	76.0	34	20.0	OW-2-26D	95.0	26	31.0
OW-2-19	96.1	30	30.0	OW-2-24S	77.8	18	23.5	OW-2-27	93.5	32	28.5
OW-2-20D	96.6	28	9.0	OW-2-26S	74.0	32	19.5	OW-2-28D	92.1	30	27.0
OW-2-21	96.6	33	28.5	OW-2-28S	76.0	25	21.0	OW-2-29	92.2	32	28.0
OW-2-22D	96.3	38	28.0	OW-2-30S	67.8	28	17.0	OW-2-30D	88.0	25	26.0
OW-2-23	97.2	Off	—	OW-2-34	71.0	25	19.5	OW-2-31	86.0	26	26.5
OW-2-24D	97.0	Off	—	OW-2-35	69.2	26	21.0	OW-2-32	84.0	21	24.5
OW-2-25	96.0	31	27.5	OW-2-36	64.8	31	18.0	OW-2-33	82.0	33	26.0

Comments: **All Points set at 30 scfh**

Injection Bank G	Depth (ft)	scfh	psi	Injection Bank H	Depth (ft)	scfh	psi	Monitoring Point Logs	DTW	DO(mg/L)	PID
OW-2-37	62.8	25	20.0	OW-2-45	61.1	26	20.0	MP-2-1			
OW-2-38	62.1	41	20.0	OW-2-46	61.0	32	19.0	MP-2-2			
OW-2-39	60.0	28	18.5	OW-2-47	60.5	23	19.5	MP-2-3S			
OW-2-40	61.7	Off		-	-			MP-2-SD			
OW-2-241	61.7	24	19.5	-	-			MP-2-4			
OW-2-42	61.6	28	20.0	-	-			MP-2-5			
OW-2-43	61.4	Off		-	-			-	-	-	-
OW-2-44R	60.6	22	20.0	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date:

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) NO BROOM
   Yes _____ No ✓
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed Oil added to compressor
4) Supplies needed Sign in book, first aid kit, compressor key
5) Visitors None

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ✓ 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 _____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 5/14/19
Time: 0730
Weather: 45 cloudy
Inside Trailer Temperature: operable
Performed By: Matt Corrado

O_2 Generator

Hours: 26788
Feed Air Pressure *: 140 (psi)
Cycle Pressure * (L / R) High: 71 | 73 (psi)
Low: 2 | 3 (psi)
Oxygen Receiver Pressure *: 68 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 110 (psi)
Oxygen Purity: 80.2 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 140 (psi)
Delivery Air: 140 (psi)
Element Outlet Temperature: 190 (°F)
Running Hours: 6827 (hours)
Loading Hours: 4870 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-1-1	95.5	27	26.0	OW-1-5S	67.3	28	18.0	OW-1-9D	88.5	30	28.0
OW-1-2	96.5	Off	—	OW-1-6S	67.0	30	18.0	OW-1-10D	87.2	29	28.0
OW-1-3	96.3	30	30.0	OW-1-7S	66.9	26	18.0	OW-1-11D	86.1	30	30.0
OW-1-4	95.0	26	30.0	OW-1-8S	66.7	26	18.0	OW-1-12D	85.3	28	28.0
OW-1-5D	93.9	32	29.0	OW-1-9S	66.0	23	18.0	OW-1-13D	84.7	30	28.0
OW-1-6D	92.4	30	29.0	OW-1-10S	54.6	24	13.0	OW-1-14D	84.1	28	29.0
OW-1-7D	91.1	30	28.0	OW-1-11S	54.1	24	14.0	OW-1-15D	83.3	29	28.0
OW-1-8D	89.6	28	29.0	OW-1-12S	53.6	25	15.0	OW-1-16D	82.5	22	14.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 3/14/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	25	14.0
OW-1-14S	52.7	26	14.0
OW-1-15S	52.2	21	13.0
OW-1-16SR	51.8	26	26.0
OW-1-17S	50.7	23	25.0
OW-1-18S	50.2	24	12.0
OW-1-19S	49.7	Off	
OW-1-20S	49.3	Off	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	20	14.0
OW-1-18D	78.3	25	26.0
OW-1-19D	78.9	25	26.0
OW-1-20D	79.5	25	26.0
OW-1-21D	79.5	25	26.0
OW-1-22D	79.5	20	25.0
OW-1-23D	78.7	24	25.0
OW-1-24D	78.2	25	26.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	27	12.0
OW-1-22S	49.3	28	11.0
OW-1-23S	48.8	28	11.0
OW-1-24S	48.4	24	11.0
OW-1-25S	48.8	26	12.0
OW-1-26S	48.3	27	13.0
OW-1-27S	48.3	30	13.0
OW-1-28S	48.3	24	14.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	26	26.0
OW-1-26D	78.1	28	26.0
OW-1-27D	77.9	29	28.0
OW-1-28D	78.0	30	26.0
OW-1-29D	78.4	28	26.0
OW-1-30D	79.0	14	27.0
OW-1-31D	80.5	Off	
OW-1-32D	81.6	26	28.0

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	25	12.0
OW-1-30S	48.8	25	14.0
OW-1-31S	49.3	25	14.0
OW-1-32S	49.3	21	12.0
OW-1-33S	49.7	24	13.0
OW-1-34S	50.1	25	13.0
OW-1-35S	50.3	19	14.0
OW-1-36S	50.3	26	13.0

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28.0
OW-1-34D	84.5	30	29.0
OW-1-35D	85.0	20	28.0
OW-1-36D	85.0	28	29.0
OW-1-37D	84.0	21	28.0
OW-1-38D	82.0	26	27.0
OW-1-39D	78.0	29	26.0
OW-1-40D	76.0	24	26.0

Comments: **All points set at 30 scfh**

Notes:

Date: 5/14/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	14	12.0	OW-1-41D	73.6	21	23.0	OW-1-43	67.4	20	20.0
OW-1-38S	50.6	20	13.0	OW-1-42D	71.0	23	21.0	OW-1-44	66.6	22	18.0
OW-1-39S	50.7	18	12.0	OW-1-45	65.7	21	19.0	OW-1-51R	60.6	23	16.0
OW-1-40S	51.1	22	14.0	OW-1-46	64.3	24	17.0	OW-1-52	59.3	22	16.0
OW-1-41S	51.5	24	14.0	OW-1-47	63.4	24	18.0	OW-1-53	60.0	24	16.0
OW-1-42S	51.3	20	14.0	OW-1-48	62.5	22	18.0	OW-1-54	60.0	24	16.0
-	-			OW-1-49	61.5	22	17.0	-	-		
-	-			OW-1-50	61.0	24	17.0	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 5/14/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) No Booster pump tripped breaker, remained on after reset

3) Other major activities completed First aid kit & sign in book added to system

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ____ 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 ____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/16/19
Time: 0700
Weather: 50s drizzle
Inside Trailer Temperature: warm
Performed By: Matt Locurto

O_2 Generator

Hours	48676	
Feed Air Pressure *	110	(psi)
Cycle Pressure * (L / R) High:	73 / 73	(psi)
Cycle Pressure * (L / R) Low:	0 / 0	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	130	(psi)
Oxygen Purity	77.9	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	172	(°F)
Running Hours	56439	(hours)
Loading Hours	48826	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 00999.99 - Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	27	31.0	OW-2-9S	75.0	30	20.5	OW-2-10D	97.2	24	28.0
OW-2-3	94.3	24	28.0	OW-2-10S	75.0	30	31.0	OW-2-11D	100.8	30	33.0
OW-2-4	94.7	26	37.0	OW-2-11S	76.5	28	13.0	OW-2-12	94.0	32	19.5
OW-2-5	95.3	30	30.5	OW-2-13S	75.0	32	19.5	OW-2-13D	97.0	28	33.0
OW-2-6	95.7	27	31.0	OW-2-15S	75.0	29	19.0	OW-2-14	96.4	32	29.0
OW-2-7	96.0	28	30.5	OW-2-16S	75.5	31	20.0	OW-2-15D	94.6	30	30.5
OW-2-8	96.3	34	30.5	OW-2-18S	74.5	28	19.0	OW-2-16D	94.1	30	26.5
OW-2-9D	96.7	26	30.5	OW-2-20S	79.0	29	22.0	OW-2-17	95.0	30	29.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 3/16/18

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi	Injection Bank E	Depth (ft)	scfh	psi	Injection Bank F	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	36.0	OW-2-22S	76.0	27	20.5	OW-2-26D	95.0	38	31.5
OW-2-19	96.1	30	30.0	OW-2-24S	77.8	44	13.0	OW-2-27	93.5	34	29.0
OW-2-20D	96.6	30	9.0	OW-2-26S	74.0	32	20.0	OW-2-28D	92.1	33	28.0
OW-2-21	96.6	30	29.0	OW-2-28S	76.0	28	21.5	OW-2-29	92.2	33	29.0
OW-2-22D	96.3	33	28.0	OW-2-30S	67.8	28	17.0	OW-2-30D	88.0	30	27.0
OW-2-23	97.2	Off		OW-2-34	71.0	30	20.0	OW-2-31	86.0	39	26.0
OW-2-24D	97.0	Off		OW-2-35	69.2	25	23.5	OW-2-32	84.0	37	23.0
OW-2-25	96.0	32	27.5	OW-2-36	64.8	23	19.0	OW-2-33	82.0	27	28.5

Comments: **All Points set at 30 scfh**

Injection Bank G	Depth (ft)	scfh	psi	Injection Bank H	Depth (ft)	scfh	psi	Monitoring Point Logs	DTW	DO(mg/L)	PID
OW-2-37	62.8	36	20.0	OW-2-45	61.1	26	20.0	MP-2-1			
OW-2-38	62.1	32	19.5	OW-2-46	61.0	27	20.0	MP-2-2			
OW-2-39	60.0	38	18.5	OW-2-47	60.5	28	21.0	MP-2-3S			
OW-2-40	61.7	Off		-	-			MP-2-SD			
OW-2-241	61.7	37	20.0	-	-			MP-2-4			
OW-2-42	61.6	33	20.0	-	-			MP-2-5			
OW-2-43	61.4	Off		-	-			-	-	-	-
OW-2-44R	60.6	34	20.0	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date:

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No ____
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed None
4) Supplies needed None
5) Visitors None

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 6/11/19
Time: 0710
Weather: 50s rain
Inside Trailer Temperature: HOT!!
Performed By: Matt Connolo

O_2 Generator

Hours: 48952
Feed Air Pressure *: 110 (psi)
Cycle Pressure * (L / R) High: 76 | 76 (psi)
Low: 0 | 0 (psi)
Oxygen Receiver Pressure *: 74 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 127 (psi)
Oxygen Purity: 85.3 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: ~~105~~ 110 (psi)
Delivery Air: 110 (psi)
Element Outlet Temperature: 171 (°F)
Running Hours: 36950 (hours)
Loading Hours: 49112 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	23	31.0	OW-2-9S	75.0	28	21.0	OW-2-10D	97.2	27	28.0
OW-2-3	94.3	34	30.5	OW-2-10S	75.0	28	31.5	OW-2-11D	100.8	26	33.0
OW-2-4	94.7	29	36.0	OW-2-11S	76.5	26	14.0	OW-2-12	94.0	23	20.0
OW-2-5	95.3	30	31.0	OW-2-13S	75.0	29	19.5	OW-2-13D	97.0	29	25.5
OW-2-6	95.7	30	31.0	OW-2-15S	75.0	29	19.0	OW-2-14	96.4	26	29.0
OW-2-7	96.0	25	30.5	OW-2-16S	75.5	30	20.0	OW-2-15D	94.6	25	31.0
OW-2-8	96.3	27	31.0	OW-2-18S	74.5	30	19.5	OW-2-16D	94.1	23	28.5
OW-2-9D	96.7	24	31.0	OW-2-20S	79.0	28	21.5	OW-2-17	95.0	22	30.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 6/11/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	31.0
OW-2-19	96.1	28	30.0
OW-2-20D	96.6	29	10.0
OW-2-21	96.6	30	28.5
OW-2-22D	96.3	30	28.0
OW-2-23	97.2	-OFF-	
OW-2-24D	97.0	-OFF-	
OW-2-25	96.0	23	19.0

Injection Bank E	Depth (ft)	scfh	psi
OW-2-22S	76.0	33	20.5
OW-2-24S	77.8	30	23.0
OW-2-26S	74.0	35	19.0
OW-2-28S	76.0	34	21.0
OW-2-30S	67.8	36	17.0
OW-2-34	71.0	36	20.0
OW-2-35	69.2	33	21.5
OW-2-36	64.8	34	18.0

Injection Bank F	Depth (ft)	scfh	psi
OW-2-26D	95.0	28	32.0
OW-2-27	93.5	32	29.0
OW-2-28D	92.1	30	27.5
OW-2-29	92.2	30	28.5
OW-2-30D	88.0	30	26.5
OW-2-31	86.0	24	27.0
OW-2-32	84.0	25	25.0
OW-2-33	82.0	34	26.5

Comments: OW-2-25 leaking air from hose

All Points set at 30 scfh

Injection Bank G	Depth (ft)	scfh	psi
OW-2-37	62.8	26	20.5
OW-2-38	62.1	28	20.0
OW-2-39	60.0	16	18.0
OW-2-40	61.7	-OFF-	
OW-2-241	61.7	18	20.0
OW-2-42	61.6	20	20.5
OW-2-43	61.4	-OFF-	
OW-2-44R	60.6	10	20.0

Injection Bank H	Depth (ft)	scfh	psi
OW-2-45	61.1	26	20.0
OW-2-46	61.0	26	20.0
OW-2-47	60.5	26	20.0
-	-		
-	-		
-	-		
-	-		
-	-		

Monitoring Point Logs	DTW	DO(mg/L)	PID
MP-2-1			
MP-2-2			
MP-2-3S			
MP-2-SD			
MP-2-4			
MP-2-5			
-	-	-	-
-	-	-	-

Comments:

All points set at 30 scfh

Notes:

Date: 6/11/19

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes _____ No ✓ NoBrom

2) Abnormal conditions observed (e.g. vandalism) A/C not working properly

3) Other major activities completed Reset diner upon arrival Booster pump system removed

4) Supplies needed A/C

5) Visitors None

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) _____ 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 _____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 7/16/19
Time: 0800
Weather: 80s sunny
Inside Trailer Temperature: Operable
Performed By: Matt Corrado

O_2 Generator

Hours: 26881

Feed Air Pressure *: 140 (psi)

Cycle Pressure * (L / R) High: 73 | 75 (psi)
Low: 2 | 5 (psi)

Oxygen Receiver Pressure *: 73 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 110 (psi)

Oxygen Purity: 87.4 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 140 (psi)

Delivery Air: 140 (psi)

Element Outlet Temperature: 191 (°F)

Running Hours: 6936 (hours)

Loading Hours: 4942 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08 → Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	23	30.0	OW-1-5S	67.3	18	18.0	OW-1-9D	88.5	22	28.0
OW-1-2	96.5	- OFF -		OW-1-6S	67.0	23	18.0	OW-1-10D	87.2	28	28.0
OW-1-3	96.3	27	30.0	OW-1-7S	66.9	15	17.0	OW-1-11D	86.1	27	29.0
OW-1-4	95.0	24	30.0	OW-1-8S	66.7	18	18.0	OW-1-12D	85.3	23	28.0
OW-1-5D	93.9	19	29.0	OW-1-9S	66.0	17	18.0	OW-1-13D	84.7	22	28.0
OW-1-6D	92.4	15	29.0	OW-1-10S	54.6	22	13.0	OW-1-14D	84.1	18	29.0
OW-1-7D	91.1	18	29.0	OW-1-11S	54.1	11	14.0	OW-1-15D	83.3	22	28.0
OW-1-8D	89.6	30	29.0	OW-1-12S	53.6	11	15.0	OW-1-16D	82.5	17	14.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 7/16/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13.0
OW-1-14S	52.7	19	14.0
OW-1-15S	52.2	18	13.0
OW-1-16SR	51.8	24	26.0
OW-1-17S	50.7	30	24.0
OW-1-18S	50.2	28	12.0
OW-1-19S	49.7	-OFF-	
OW-1-20S	49.3	-OFF-	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	10	13.0
OW-1-18D	78.3	25	26.0
OW-1-19D	78.9	20	26.0
OW-1-20D	79.5	24	26.0
OW-1-21D	79.5	31	26.0
OW-1-22D	79.5	34	25.0
OW-1-23D	78.7	31	25.0
OW-1-24D	78.2	24	26.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	19	11.0
OW-1-22S	49.3	18	11.0
OW-1-23S	48.8	20	11.0
OW-1-24S	48.4	20	11.0
OW-1-25S	48.8	26	12.0
OW-1-26S	48.3	16	13.0
OW-1-27S	48.3	24	13.0
OW-1-28S	48.3	18	14.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	21	26.0
OW-1-26D	78.1	22	26.0
OW-1-27D	77.9	25	27.0
OW-1-28D	78.0	26	26.0
OW-1-29D	78.4	26	26.0
OW-1-30D	79.0	18	28.0
OW-1-31D	80.5	-OFF-	
OW-1-32D	81.6	26	28.0

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	28	12.0
OW-1-30S	48.8	22	13.0
OW-1-31S	49.3	21	13.0
OW-1-32S	49.3	20	12.0
OW-1-33S	49.7	29	13.0
OW-1-34S	50.1	27	12.0
OW-1-35S	50.3	23	14.0
OW-1-36S	50.3	25	13.0

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	25	28.0
OW-1-34D	84.5	21	29.0
OW-1-35D	85.0	20	28.0
OW-1-36D	85.0	28	29.0
OW-1-37D	84.0	13	28.0
OW-1-38D	82.0	30	27.0
OW-1-39D	78.0	23	26.0
OW-1-40D	76.0	30	26.0

MC

Comments: **All points set at 30 scfh**

Notes:

Date: 7/16/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	27	12.0	OW-1-41D	73.6	20	22.0	OW-1-43	67.4	23	20.0
OW-1-38S	50.6	15	13.0	OW-1-42D	71.0	28	21.0	OW-1-44	66.6	29	18.0
OW-1-39S	50.7	29	12.0	OW-1-45	65.7	41	19.0	OW-1-51R	60.6	21	16.0
OW-1-40S	51.1	27	14.0	OW-1-46	64.3	24	18.0	OW-1-52	59.3	23	16.0
OW-1-41S	51.5	17	14.0	OW-1-47	63.4	29	18.0	OW-1-53	60.0	23	16.0
OW-1-42S	51.3	21	14.0	OW-1-48	62.5	26	18.0	OW-1-54	60.0	26	16.0
-	-			OW-1-49	61.5	23	18.0	-	-		
-	-			OW-1-50	61.0	20	18.0	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 7/16/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No ____
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed None
4) Supplies needed None
5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ____

Booster pump replaced 7/12/19
System restart 11:20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 7/17/19
Time: 0800
Weather: 80s Hot
Inside Trailer Temperature: HOT
Performed By: Matt Comudo

O_2 Generator

Hours: 49341

Feed Air Pressure *: 110 (psi)

Cycle Pressure * (L / R) — High: 72 | 74 (psi); Low: 0 | 0 (psi)

Oxygen Receiver Pressure *: 73 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 125 (psi)

Oxygen Purity: 92.1 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)

Delivery Air: 110 (psi)

Element Outlet Temperature: 181 (°F)

Running Hours: 57886 (hours)

Loading Hours: 49518 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N): Y

Condensate Emptied (Y / N): Y

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	30	31.5	OW-2-9S	75.0	23	21.0	OW-2-10D	97.2	31	28.0
OW-2-3	94.3	23	29.0	OW-2-10S	75.0	23	31.0	OW-2-11D	100.8	28	33.0
OW-2-4	94.7	23	36.0	OW-2-11S	76.5	22	12.0	OW-2-12	94.0	30	20.0
OW-2-5	95.3	25	31.0	OW-2-13S	75.0	25	20.0	OW-2-13D	97.0	18	28.0
OW-2-6	95.7	23	31.0	OW-2-15S	75.0	22	16.5	OW-2-14	96.4	21	29.5
OW-2-7	96.0	20	31.0	OW-2-16S	75.5	23	20.0	OW-2-15D	94.6	19	31.0
OW-2-8	96.3	21	31.0	OW-2-18S	74.5	21	19.5	OW-2-16D	94.1	21	28.0
OW-2-9D	96.7	21	31.0	OW-2-20S	79.0	18	22.0	OW-2-17	95.0	30	29.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 7/17/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi
OW-2-18D	95.5	34	31.0
OW-2-19	96.1	10	30.0
OW-2-20D	96.6	38	11.5
OW-2-21	96.6	29	28.5
OW-2-22D	96.3	29	28.0
OW-2-23	97.2	-OFF-	
OW-2-24D	97.0	-OFF-	
OW-2-25	96.0	30	12.5

Injection Bank E	Depth (ft)	scfh	psi
OW-2-22S	76.0	21	20.5
OW-2-24S	77.8	17	23.0
OW-2-26S	74.0	21	20.0
OW-2-28S	76.0	17	21.0
OW-2-30S	67.8	17	17.0
OW-2-34	71.0	16	20.0
OW-2-35	69.2	13	21.5
OW-2-36	64.8	18	18.0

Injection Bank F	Depth (ft)	scfh	psi
OW-2-26D	95.0	26	33.0
OW-2-27	93.5	25	29.0
OW-2-28D	92.1	24	28.0
OW-2-29	92.2	28	29.0
OW-2-30D	88.0	23	26.5
OW-2-31	86.0	24	32.0
OW-2-32	84.0	18	27.0
OW-2-33	82.0	29	28.0

Comments: **All Points set at 30 scfh**

Injection Bank G	Depth (ft)	scfh	psi
OW-2-37	62.8	27	20.0
OW-2-38	62.1	27	20.0
OW-2-39	60.0	21	18.5
OW-2-40	61.7	-OFF-	
OW-2-241	61.7	23	20.0
OW-2-42	61.6	27	20.5
OW-2-43	61.4	-OFF-	
OW-2-44R	60.6	29	20.0

Injection Bank H	Depth (ft)	scfh	psi
OW-2-45	61.1	21	21.0
OW-2-46	61.0	21	20.0
OW-2-47	60.5	27	18.5
-	-		
-	-		
-	-		
-	-		
-	-		

Monitoring Point Logs	DTW	DO(mg/L)	PID
MP-2-1			
MP-2-2			
MP-2-3S			
MP-2-SD			
MP-2-4			
MP-2-5			
-	-	-	-
-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date: 7/17/19

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) AC broken

3) Other major activities completed None

4) Supplies needed AC needed, hour counters booster pump

5) Visitors None

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ____ 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 ____	No ____

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 8/12/19
Time: 0715
Weather: 80s Sun
Inside Trailer Temperature: quiable
Performed By: Matt Condo

O_2 Generator

Hours	49677	
Feed Air Pressure *	110	(psi)
Cycle Pressure * (L / R)	High: 63 | 64	(psi)
	Low: 0 | 0	(psi)
Oxygen Receiver Pressure *	72	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	125	(psi)
Oxygen Purity	82.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	171	(°F)
Running Hours	58256	(hours)
Loading Hours	49864	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank A				Injection Bank B				Injection Bank C			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	34	33.0	OW-2-9S	75.0	38	20.5	OW-2-10D	97.2	14	28.0
OW-2-3	94.3	42	21.0	OW-2-10S	75.0	34	31.5	OW-2-11D	100.8	30	33.0
OW-2-4	94.7	34	41.0	OW-2-11S	76.5	38	12.0	OW-2-12	94.0	37	19.5
OW-2-5	95.3	38	30.5	OW-2-13S	75.0	37	19.5	OW-2-13D	97.0	42	45.0
OW-2-6	95.7	39	31.0	OW-2-15S	75.0	39	19.5	OW-2-14	96.4	42	29.0
OW-2-7	96.0	44	30.5	OW-2-16S	75.5	44	20.0	OW-2-15D	94.6	33	30.5
OW-2-8	96.3	46	30.5	OW-2-18S	74.5	40	19.5	OW-2-16D	94.1	42	26.5
OW-2-9D	96.7	41	30.5	OW-2-20S	79.0	44	21.0	OW-2-17	95.0	36	29.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 8/12/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi	Injection Bank E	Depth (ft)	scfh	psi	Injection Bank F	Depth (ft)	scfh	psi
OW-2-18D	95.5	32	31.0	OW-2-22S	76.0	38	20.5	OW-2-26D	95.0	32	32.0
OW-2-19	96.1	~~30~~ 35 CH	30.0	OW-2-24S	77.8	29	23.5	OW-2-27	93.5	35	28.5
OW-2-20D	96.6	38	10.5	OW-2-26S	74.0	37	20.0	OW-2-28D	92.1	36	27.5
OW-2-21	96.6	32	28.5	OW-2-28S	76.0	38	21.0	OW-2-29	92.2	34	28.0
OW-2-22D	96.3	~~42~~ 31 CH	28.0	OW-2-30S	67.8	38	17.0	OW-2-30D	88.0	40	26.0
OW-2-23	97.2	~~33~~ CH OFF	OFF	OW-2-34	71.0	40	20.0	OW-2-31	86.0	36	27.0
OW-2-24D	97.0	OFF	OFF	OW-2-35	69.2	36	21.5	OW-2-32	84.0	46	25.0
OW-2-25	96.0	32	13.5	OW-2-36	64.8	35	18.5	OW-2-33	82.0	35	26.0

Comments: **All Points set at 30 scfh**

Injection Bank G	Depth (ft)	scfh	psi	Injection Bank H	Depth (ft)	scfh	psi	Monitoring Point Logs	DTW	DO(mg/L)	PID
OW-2-37	62.8	36.	20.5	OW-2-45	61.1	46	20.0	MP-2-1			
OW-2-38	62.1	34	19.5	OW-2-46	61.0	44	19.0	MP-2-2			
OW-2-39	60.0	40	18.0	OW-2-47	60.5	35	20.0	MP-2-3S			
OW-2-40	61.7	OFF	OFF	-	-			MP-2-SD			
OW-2-241	61.7	41	20.0	-	-			MP-2-4			
OW-2-42	61.6	36	20.0	-	-			MP-2-5			
OW-2-43	61.4	OFF	OFF	-	-			-	-	-	-
OW-2-44R	60.6	39	20.0	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date: 8/12/19

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed AC replaced

4) Supplies needed None

5) Visitors MQ

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded ✓
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 8/13/19
Time: 0736
Weather: 70's, Cloudy
Inside Trailer Temperature: Cool, Operational
Performed By: C. Hayes

O_2 Generator

Hours: 27,265

Feed Air Pressure *: 137 (psi)

Cycle Pressure * (L / R): High: 73 | 75 (psi); Low: 4 | 2 (psi)

Oxygen Receiver Pressure *: 75 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 112 (psi)

Oxygen Purity: 79.1 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 137 (psi)

Delivery Air: 137 (psi)

Element Outlet Temperature: 193 (°F)

Running Hours: 7,363 (hours)

Loading Hours: 5,237 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15,660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N)

Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	47	26.5	OW-1-5S	67.3	39	18.0	OW-1-9D	88.5	32	28.0
OW-1-2	96.5	OFF	OFF	OW-1-6S	67.0	51	18.0	OW-1-10D	87.2	32	27.5
OW-1-3	96.3	29	31.0	OW-1-7S	66.9	57	17.5	OW-1-11D	86.1	29	30.0
OW-1-4	95.0	28	30.0	OW-1-8S	66.7	45	18.0	OW-1-12D	85.3	32	28.5
OW-1-5D	93.9	32	29.5	OW-1-9S	66.0	25	18.5	OW-1-13D	84.7	46	29.0
OW-1-6D	92.4	28	29.5	OW-1-10S	54.6	35	13.5	OW-1-14D	84.1	30	29.0
OW-1-7D	91.1	32	29.0	OW-1-11S	54.1	33	14.5	OW-1-15D	83.3	26	28.0
OW-1-8D	89.6	30	29.0	OW-1-12S	53.6	27	15.0	OW-1-16D	82.5	44	14.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 8/13/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-13S	53.1	28	14.0	OW-1-17D	79.5	65	13.5	OW-1-21S	49.3	40	11.5
OW-1-14S	52.7	46	14.5	OW-1-18D	78.3	52	26.0	OW-1-22S	49.3	31	11.5
OW-1-15S	52.2	60	13.5	OW-1-19D	78.9	34	26.0	OW-1-23S	48.8	31	11.5
OW-1-16SR	51.8	28	27.0	OW-1-20D	79.5	45	26.5	OW-1-24S	48.4	29	12.0
OW-1-17S	50.7	33	25.0	OW-1-21D	79.5	35	26.0	OW-1-25S	48.8	32	13.0
OW-1-18S	50.2	33	12.0	OW-1-22D	79.5	34	25.0	OW-1-26S	48.3	68	13.0
OW-1-19S	49.7	OFF	OFF	OW-1-23D	78.7	34	25.0	OW-1-27S	48.3	36	13.0
OW-1-20S	49.3	OFF	OFF	OW-1-24D	78.2	39	26.0	OW-1-28S	48.3	35	14.0

Comments: **All Points set at 30 scfh**

Injection Bank 7				Injection Bank 8				Injection Bank 9			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-1-25D	78.1	32	26.5	OW-1-29S	48.5	31	13.0	OW-1-33D	83.2	27	28.5
OW-1-26D	78.1	30	27.0	OW-1-30S	48.8	32	13.5	OW-1-34D	84.5	39	29.5
OW-1-27D	77.9	47	26.5	OW-1-31S	49.3	34	13.5	OW-1-35D	85.0	38	29.0
OW-1-28D	78.0	35	26.5	OW-1-32S	49.3	34	12.5	OW-1-36D	85.0	29	29.0
OW-1-29D	78.4	29	26.0	OW-1-33S	49.7	28	13.0	OW-1-37D	84.0	36	28.5
OW-1-30D	79.0	31	28.0	OW-1-34S	50.1	26	12.5	OW-1-38D	82.0	30	27.0
OW-1-31D	80.5	OFF	OFF	OW-1-35S	50.3	34	13.5	OW-1-39D	78.0	41	26.5
OW-1-32D	81.6	28	28.0	OW-1-36S	50.3	34	13.0	OW-1-40D	76.0	30	26.0

Comments: **All points set at 30 scfh**

Notes:

Date: 8/13/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	28	12.0	OW-1-41D	73.6	43	23.0	OW-1-43	67.4	31	20.0
OW-1-38S	50.6	30	13.5	OW-1-42D	71.0	32	21.0	OW-1-44	66.6	30	18.0
OW-1-39S	50.7	35	13.0	OW-1-45	65.7	39	19.0	OW-1-51R	60.6	34	17.0
OW-1-40S	51.1	48	14.0	OW-1-46	64.3	34	18.0	OW-1-52	59.3	26	16.0
OW-1-41S	51.5	47	14.0	OW-1-47	63.4	35	17.5	OW-1-53	60.0	34	16.5
OW-1-42S	51.3	31	14.0	OW-1-48	62.5	38	18.0	OW-1-54	60.0	29	13.0
-	-			OW-1-49	61.5	32	17.0	-	-		
-	-			OW-1-50	61.0	41	16.5	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 8/13/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No _____
2) Abnormal conditions observed (e.g. vandalism) _____
3) Other major activities completed Fire Extinguisher in good standing
4) Supplies needed None
5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ✓ 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 _____ No _____

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 9/17/19
Time: 0700
Weather: 70s sun
Inside Trailer Temperature: unstable
Performed By: Matt Combs

O_2 Generator

Hours: 27720

Feed Air Pressure *: 140 (psi)

Cycle Pressure * (L / R) — High: 73 | 75 (psi); Low: 2 | 5 (psi)

Oxygen Receiver Pressure *: 75 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 115 (psi)

Oxygen Purity: 82.2 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 140 (psi)

Delivery Air: 140 (psi)

Element Outlet Temperature: 193 (°F)

Running Hours: 7871 (hours)

Loading Hours: 5585 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-1-1	95.5	48	26.0	OW-1-5S	67.3	22	18.0	OW-1-9D	88.5	24	28.0
OW-1-2	96.5	OFF		OW-1-6S	67.0	41	18.0	OW-1-10D	87.2	36	27.0
OW-1-3	96.3	29	30.0	OW-1-7S	66.9	43	17.0	OW-1-11D	86.1	31	29.5
OW-1-4	95.0	27	30.0	OW-1-8S	66.7	29	18.0	OW-1-12D	85.3	38	28.0
OW-1-5D	93.9	31	29.0	OW-1-9S	66.0	28	18.0	OW-1-13D	84.7	36	28.0
OW-1-6D	92.4	30	29.0	OW-1-10S	54.6	28	13.0	OW-1-14D	84.1	33	28.0
OW-1-7D	91.1	37	28.0	OW-1-11S	54.1	38	14.0	OW-1-15D	83.3	28	28.0
OW-1-8D	89.6	29	29.0	OW-1-12S	53.6	28	14.0	OW-1-16D	82.5	32	14.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 9/17/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	35	13.0
OW-1-14S	52.7	30	14.0
OW-1-15S	52.2	28	13.0
OW-1-16SR	51.8	27	26.0
OW-1-17S	50.7	28	24.0
OW-1-18S	50.2	28	12.0
OW-1-19S	49.7	OFF	
OW-1-20S	49.3	OFF	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	30	13.0
OW-1-18D	78.3	29	26.0
OW-1-19D	78.9	45	26.0
OW-1-20D	79.5	29	26.0
OW-1-21D	79.5	30	26.0
OW-1-22D	79.5	29	24.0
OW-1-23D	78.7	23	25.0
OW-1-24D	78.2	29	26.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	31	11.0
OW-1-22S	49.3	29	11.0
OW-1-23S	48.8	28	11.0
OW-1-24S	48.4	26	11.0
OW-1-25S	48.8	38	12.0
OW-1-26S	48.3	32	12.0
OW-1-27S	48.3	30	13.0
OW-1-28S	48.3	27	13.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	34	26.0
OW-1-26D	78.1	35	26.0
OW-1-27D	77.9	33	27.0
OW-1-28D	78.0	30	26.0
OW-1-29D	78.4	31	26.0
OW-1-30D	79.0	30	28.0
OW-1-31D	80.5	OFF	
OW-1-32D	81.6	29	28.0

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	30	12.0
OW-1-30S	48.8	30	13.0
OW-1-31S	49.3	32	13.0
OW-1-32S	49.3	33	12.0
OW-1-33S	49.7	30	13.0
OW-1-34S	50.1	29	12.0
OW-1-35S	50.3	28	13.0
OW-1-36S	50.3	30	13.0

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28.0
OW-1-34D	84.5	33	29.0
OW-1-35D	85.0	45	28.0
OW-1-36D	85.0	31	29.0
OW-1-37D	84.0	30	28.0
OW-1-38D	82.0	30	27.0
OW-1-39D	78.0	31	26.0
OW-1-40D	76.0	36	25.5

Comments: **All points set at 30 scfh**

Notes:

Date: 9/17/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10	Depth (ft)	scfh	psi	Injection Bank 11	Depth (ft)	scfh	psi	Injection Bank 12	Depth (ft)	scfh	psi
OW-1-37S	50.5	28	12.0	OW-1-41D	73.6	35	22.0	OW-1-43	67.4	29	19.5
OW-1-38S	50.6	29	13.0	OW-1-42D	71.0	32	20.0	OW-1-44	66.6	27	18.0
OW-1-39S	50.7	36	12.0	OW-1-45	65.7	30	19.0	OW-1-51R	60.6	30	16.0
OW-1-40S	51.1	32	14.0	OW-1-46	64.3	30	17.0	OW-1-52	59.3	34	16.0
OW-1-41S	51.5	37	14.0	OW-1-47	63.4	34	17.0	OW-1-53	60.0	29	16.0
OW-1-42S	51.3	38	13.0	OW-1-48	62.5	32	18.0	OW-1-54	60.0	31	16.0
-	-			OW-1-49	61.5	28	16.0	-	-		
-	-			OW-1-50	61.0	30	16.0	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank	Depth (ft)	scfh	psi	Injection Bank	Depth (ft)	scfh	psi	Injection Bank	DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 9/17/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) Landscaping is growing tall
2 drain tubings disconnected

3) Other major activities completed Reconnect drainage tubing.
Oil to compressor

4) Supplies needed None

5) Visitors Greg Vorzimmer GW sampling

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ✓ 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 ____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 9/18/19
Time: 0730
Weather: 70s clouds
Inside Trailer Temperature: operable
Performed By: Matt Comerford

O_2 Generator

Hours	50423	
Feed Air Pressure *	110	(psi)
Cycle Pressure * (L / R) High:	62 | 62	(psi)
Low:	0 | 0	(psi)
Oxygen Receiver Pressure *	64	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	132	(psi)
Oxygen Purity	85.2	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	172	(°F)
Running Hours	59123	(hours)
Loading Hours	50618	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank A	Depth (ft)	scfh	psi	Injection Bank B	Depth (ft)	scfh	psi	Injection Bank C	Depth (ft)	scfh	psi
OW-2-2	90.2	33	31.0	OW-2-9S	75.0	34	20.0	OW-2-10D	97.2	12	28.0
OW-2-3	94.3	37	30.0	OW-2-10S	75.0	32	31.0	OW-2-11D	100.8	34	33.0
OW-2-4	94.7	36	36.5	OW-2-11S	76.5	36	12.0	OW-2-12	94.0	36	19.0
OW-2-5	95.3	37	30.0	OW-2-13S	75.0	33	19.0	OW-2-13D	97.0	32	48.0
OW-2-6	95.7	34	31.0	OW-2-15S	75.0	36	19.0	OW-2-14	96.4	32	28.5
OW-2-7	96.0	35	30.0	OW-2-16S	75.5	34	19.5	OW-2-15D	94.6	33	30.0
OW-2-8	96.3	32	30.0	OW-2-18S	74.5	36	19.0	OW-2-16D	94.1	36	26.0
OW-2-9D	96.7	35	30.0	OW-2-20S	79.0	36	21.0	OW-2-17	95.0	34	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 9/18/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank D	Depth (ft)	scfh	psi
OW-2-18D	95.5	28	30.0
OW-2-19	96.1	34	29.5
OW-2-20D	96.6	37	8.0
OW-2-21	96.6	33	28.0
OW-2-22D	96.3	32	27.5
OW-2-23	97.2	OFF	
OW-2-24D	97.0	OFF	
OW-2-25	96.0	33	12.0

Injection Bank E	Depth (ft)	scfh	psi
OW-2-22S	76.0	37	20.0
OW-2-24S	77.8	37	23.0
OW-2-26S	74.0	36	19.5
OW-2-28S	76.0	34	21.0
OW-2-30S	67.8	34	17.0
OW-2-34	71.0	34	19.5
OW-2-35	69.2	32	21.0
OW-2-36	64.8	31	18.0

Injection Bank F	Depth (ft)	scfh	psi
OW-2-26D	95.0	30	32.0
OW-2-27	93.5	34	28.5
OW-2-28D	92.1	38	27.5
OW-2-29	92.2	36	28.0
OW-2-30D	88.0	34	26.0
OW-2-31	86.0	31	28.0
OW-2-32	84.0	32	25.0
OW-2-33	82.0	37	26.0

Comments: **All Points set at 30 scfh**

Injection Bank G	Depth (ft)	scfh	psi
OW-2-37	62.8	34	20.0
OW-2-38	62.1	32	19.5
OW-2-39	60.0	36	18.0
OW-2-40	61.7	OFF	
OW-2-241	61.7	39	19.5
OW-2-42	61.6	34	20.0
OW-2-43	61.4	OFF	
OW-2-44R	60.6	38	20.0

Injection Bank H	Depth (ft)	scfh	psi
OW-2-45	61.1	34	19.5
OW-2-46	61.0	34	20.0
OW-2-47	60.5	33	19.5
-	-		
-	-		
-	-		
-	-		
-	-		

Monitoring Point Logs	DTW	DO(mg/L)	PID
MP-2-1			
MP-2-2			
MP-2-3S			
MP-2-SD			
MP-2-4			
MP-2-5			
-	-	-	-
-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date: 9/18/19

AL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes _____ No ✓ No Broom
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed None
4) Supplies needed None
5) Visitors None

RATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) _____ 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 _____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 10/21/19
Time: 0720
Weather: 60s partly cloudy
Inside Trailer Temperature: operable
Performed By: Matt Corrado

O_2 Generator

Hours	51039		
Feed Air Pressure *	110 (psi)		
Cycle Pressure * (L / R)	High: 70 / 72 (psi)		
	Low: 0 / 1 (psi)		
Oxygen Receiver Pressure *	70 (psi)		
Oxygen Receiver Tank Pressure (reading from blue tank)	125 (psi)		
Oxygen Purity	86.5 (percent)		

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	116	(psi)
Element Outlet Temperature	172	(°F)
Running Hours	59884	(hours)
Loading Hours	51244	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-2-2	90.2	30	32.0	OW-2-9S	75.0	30	20.0	OW-2-10D	97.2	30	27.5
OW-2-3	94.3	42	23.5	OW-2-10S	75.0	30	31.0	OW-2-11D	100.8	31	32.0
OW-2-4	94.7	29	37.5	OW-2-11S	76.5	30	11.0	OW-2-12	94.0	30	19.0
OW-2-5	95.3	32	30.0	OW-2-13S	75.0	30	19.0	OW-2-13D	97.0	>10	48.0 ← turned OFF
OW-2-6	95.7	30	30.5	OW-2-15S	75.0	29	19.0	OW-2-14	96.4	30	28.0
OW-2-7	96.0	26	30.0	OW-2-16S	75.5	27	19.0	OW-2-15D	94.6	32	30.0
OW-2-8	96.3	28	30.0	OW-2-18S	74.5	26	19.0	OW-2-16D	94.1	31	26.0
OW-2-9D	96.7	29	30.0	OW-2-20S	79.0	26	21.0	OW-2-17	95.0	29	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 10/21/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	40	30.0	OW-2-22S	76.0	33	20.0	OW-2-26D	95.0	29	31.0
OW-2-19	96.1	30	29.0	OW-2-24S	77.8	28	23.0	OW-2-27	93.5	31	28.0
OW-2-20D	96.6	18	7.0	OW-2-26S	74.0	30	19.0	OW-2-28D	92.1	30	27.0
OW-2-21	96.6	30	28.0	OW-2-28S	76.0	30	20.5	OW-2-29	92.2	29	27.5
OW-2-22D	96.3	32	27.5	OW-2-30S	67.8	30	16.5	OW-2-30D	88.0	34	25.5
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	30	19.0	OW-2-31	86.0	35	26.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	30	21.0	OW-2-32	84.0	32	24.0
OW-2-25	96.0	32	10.5	OW-2-36	64.8	30	17.5	OW-2-33	82.0	31	25.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi				
OW-2-37	62.8	32	19.5	OW-2-45	61.1	32	19.5				
OW-2-38	62.1	30	19.0	OW-2-46	61.0	30	19.0				
OW-2-39	60.0	30	18.0	OW-2-47	60.5	30	19.5				
OW-2-40	61.7	POINT	OFF	-	-						
OW-2-241	61.7	33	19.0	-	-						
OW-2-42	61.6	31	19.0	-	-						
OW-2-43	61.4	POINT	OFF	-	-			-	-	-	-
OW-2-44R	60.6	43	19.0	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes.

Date: 10/21/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No _____
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed Turned off Point ~~13-D~~ MC 13-D
4) Supplies needed None
5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) _____ 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 _____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 10/22/19
Time: 0800
Weather: 60 cloudy
Inside Trailer Temperature: warm
Performed By: Matt Cornelio

O_2 Generator

Hours	28165	
Feed Air Pressure *	140	(psi)
Cycle Pressure * (L / R) High:	74 | 78	(psi)
Cycle Pressure * (L / R) Low:	2 | 6	(psi)
Oxygen Receiver Pressure *	73	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)
Oxygen Purity	84.6	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	140	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	189	(°F)
Running Hours	8369	(hours)
Loading Hours	5923	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y) / N) Condensate Emptied (Y) N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	28	25.0	OW-1-5S	67.3	25	17.0	OW-1-9D	88.5	31	28.0
OW-1-2	96.5	OFF		OW-1-6S	67.0	42	17.0	OW-1-10D	87.2	30	27.0
OW-1-3	96.3	28	30.0	OW-1-7S	66.9	33	17.0	OW-1-11D	86.1	28	29.0
OW-1-4	95.0	28	29.0	OW-1-8S	66.7	30	17.0	OW-1-12D	85.3	34	28.0
OW-1-5D	93.9	31	29.0	OW-1-9S	66.0	30	18.0	OW-1-13D	84.7	29	28.0
OW-1-6D	92.4	29	29.0	OW-1-10S	54.6	30	12.0	OW-1-14D	84.1	30	28.0
OW-1-7D	91.1	26	28.0	OW-1-11S	54.1	41	13.0	OW-1-15D	83.3	28	28.0
OW-1-8D	89.6	28	28.0	OW-1-12S	53.6	27	14.0	OW-1-16D	82.5	33	13.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 10/22/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	36	13.0
OW-1-14S	52.7	32	14.0
OW-1-15S	52.2	29	12.0
OW-1-16SR	51.8	28	26.0
OW-1-17S	50.7	44	24.0
OW-1-18S	50.2	29	12.0
OW-1-19S	49.7	OFF	
OW-1-20S	49.3	OFF	

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	29	12.0
OW-1-18D	78.3	30	25.0
OW-1-19D	78.9	29	26.0
OW-1-20D	79.5	30	26.0
OW-1-21D	79.5	30	25.0
OW-1-22D	79.5	30	24.0
OW-1-23D	78.7	32	24.0
OW-1-24D	78.2	29	26.0

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	31	11.0
OW-1-22S	49.3	30	11.0
OW-1-23S	48.8	27	11.0
OW-1-24S	48.4	29	11.0
OW-1-25S	48.8	34	12.0
OW-1-26S	48.3	37	12.0
OW-1-27S	48.3	32	12.0
OW-1-28S	48.3	28	13.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	30	26.0
OW-1-26D	78.1	34	26.0
OW-1-27D	77.9	34	26.0
OW-1-28D	78.0	29	26.0
OW-1-29D	78.4	29	25.0
OW-1-30D	79.0	27	28.0
OW-1-31D	80.5	OFF	
OW-1-32D	81.6	26	27.0

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	31	12.0
OW-1-30S	48.8	30	12.0
OW-1-31S	49.3	31	13.0
OW-1-32S	49.3	32	12.0
OW-1-33S	49.7	28	12.0
OW-1-34S	50.1	28	12.0
OW-1-35S	50.3	28	13.0
OW-1-36S	50.3	29	13.0

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28.0
OW-1-34D	84.5	28	28.0
OW-1-35D	85.0	40	28.0
OW-1-36D	85.0	30	28.0
OW-1-37D	84.0	33	28.0
OW-1-38D	82.0	28	26.0
OW-1-39D	78.0	32	26.0
OW-1-40D	76.0	37	26.0

Comments: **All points set at 30 scfh**

Notes:

Date: 10/22/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	30	12.0	OW-1-41D	73.6	30	22.0	OW-1-43	67.4	29	19.0
OW-1-38S	50.6	29	13.0	OW-1-42D	71.0	32	20.0	OW-1-44	66.6	30	18.0
OW-1-39S	50.7	32	12.0	OW-1-45	65.7	31	18.0	OW-1-51R	60.6	30	16.0
OW-1-40S	51.1	30	13.0	OW-1-46	64.3	31	17.0	OW-1-52	59.3	34	15.0
OW-1-41S	51.5	31	13.0	OW-1-47	63.4	31	17.0	OW-1-53	60.0	30	16.0
OW-1-42S	51.3	36	13.0	OW-1-48	62.5	28	18.0	OW-1-54	60.0	31	15.0
-	-			OW-1-49	61.5	30	16.0	-	-		
-	-			OW-1-50	61.0	30	16.0	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 10/22/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed None

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ____ 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 ____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 11/22/19
Time: 0800
Weather: 40s/0. Cloudy
Inside Trailer Temperature: COMFORTABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours	28589	
Feed Air Pressure *	135	(psi)
Cycle Pressure * (L / R) High:	72 / 76	(psi)
Cycle Pressure * (L / R) Low:	2 / 2	(psi)
Oxygen Receiver Pressure *	80	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	110 MR ~~80.2~~	(psi)
Oxygen Purity	80.2	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	134	(psi)
Element Outlet Temperature	184	(°F)
Running Hours	8841	(hours)
Loading Hours	6250	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi
OW-1-1	95.5	36	24
OW-1-2	96.5	POINT	OFF
OW-1-3	96.3	36	30
OW-1-4	95.0	36	30
OW-1-5D	93.9	36	28
OW-1-6D	92.4	30	28
OW-1-7D	91.1	34	28
OW-1-8D	89.6	34	28

Injection Bank 2	Depth (ft)	scfh	psi
OW-1-5S	67.3	30	17
OW-1-6S	67.0	30	17
OW-1-7S	66.9	34	16
OW-1-8S	66.7	30	17
OW-1-9S	66.0	30	18
OW-1-10S	54.6	28	12
OW-1-11S	54.1	34	14
OW-1-12S	53.6	28	14

Injection Bank 3	Depth (ft)	scfh	psi
OW-1-9D	88.5	42	28
OW-1-10D	87.2	32	27
OW-1-11D	86.1	34	29
OW-1-12D	85.3	10	28
OW-1-13D	84.7	46	28
OW-1-14D	84.1	48	28
OW-1-15D	83.3	32	28
OW-1-16D	82.5	74	14

Comments: **All Points set at 30 scfh**

Notes:
ZONE 1 - 1+3
ZONE 2 - 2+4
ZONE 3 - 5+6
ZONE 4 - 7+8
ZONE 5 9+10
ZONE 6 11+12
ZONE 7 2+6
ZONE 8 - 2+5

Date: 11/22/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi
OW-1-13S	53.1	40	13
OW-1-14S	52.7	30	14
OW-1-15S	52.2	30	13
OW-1-16SR	51.8	28	26
OW-1-17S	50.7	46	24
OW-1-18S	50.2	30	12
OW-1-19S	49.7	POINT	OFF
OW-1-20S	49.3	POINT	OFF

Injection Bank 5	Depth (ft)	scfh	psi
OW-1-17D	79.5	28	13
OW-1-18D	78.3	28	25
OW-1-19D	78.9	30	26
OW-1-20D	79.5	28	26
OW-1-21D	79.5	30	25
OW-1-22D	79.5	30	24
OW-1-23D	78.7	34	24
OW-1-24D	78.2	32	26

Injection Bank 6	Depth (ft)	scfh	psi
OW-1-21S	49.3	30	10
OW-1-22S	49.3	32	10
OW-1-23S	48.8	40	10
OW-1-24S	48.4	26	11
OW-1-25S	48.8	32	12
OW-1-26S	48.3	38	12
OW-1-27S	48.3	36	12
OW-1-28S	48.3	34	13

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi
OW-1-25D	78.1	32	26
OW-1-26D	78.1	34	26
OW-1-27D	77.9	34	27
OW-1-28D	78.0	30	26
OW-1-29D	78.4	32	25
OW-1-30D	79.0	30	28
OW-1-31D	80.5	POINT	OFF
OW-1-32D	81.6	32	27

Injection Bank 8	Depth (ft)	scfh	psi
OW-1-29S	48.5	32	12
OW-1-30S	48.8	28	13
OW-1-31S	49.3	30	13
OW-1-32S	49.3	34	12
OW-1-33S	49.7	30	13
OW-1-34S	50.1	48	12
OW-1-35S	50.3	28	13
OW-1-36S	50.3	28	12

Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-33D	83.2	28	28
OW-1-34D	84.5	28	28
OW-1-35D	85.0	26	28
OW-1-36D	85.0	30	28
OW-1-37D	84.0	32	28
OW-1-38D	82.0	30	26
OW-1-39D	78.0	28	26
OW-1-40D	76.0	26	25

Comments: **All points set at 30 scfh**

Notes:

Date: 11/22/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	28	12	OW-1-41D	73.6	32	22	OW-1-43	67.4	28	19
OW-1-38S	50.6	28	12	OW-1-42D	71.0	32	20	OW-1-44	66.6	26	18
OW-1-39S	50.7	34	12	OW-1-45	65.7	30	18	OW-1-51R	60.6	30	16
OW-1-40S	51.1	30	13	OW-1-46	64.3	30	17	OW-1-52	59.3	40	15
OW-1-41S	51.5	30	13	OW-1-47	63.4	30	16	OW-1-53	60.0	30	16
OW-1-42S	51.3	28	13	OW-1-48	62.5	28	18	OW-1-54	60.0	28	15
-	-			OW-1-49	61.5	28	16	-	-		
-	-			OW-1-50	61.0	26	16	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID	

Comments: **All points set at 30 scfh**

Notes:

Date: 11/22/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No _____

2) Abnormal conditions observed (e.g. vandalism) NONE

3) Other major activities completed WIPED DOWN EQUIPMENT

4) Supplies needed NONE - ALL MAINTENANCE EQUIPMENT IN SITED

5) Visitors MATT CORRADO

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) _____ 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 _____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes _____	No ✓
2) Coalescing changed	Yes _____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 11/22/19
Time: 0800
Weather: 40 clouds
Inside Trailer Temperature: operable
Performed By: Matt Corrado

O_2 Generator

Hours	51774		
Feed Air Pressure *	110	(psi)	
Cycle Pressure * (L / R)	High: 63 / 65	(psi)	
	Low: 0 / 0	(psi)	
Oxygen Receiver Pressure *	63	(psi)	
Oxygen Receiver Tank Pressure (reading from blue tank)	133	(psi)	
Oxygen Purity	87.1	(percent)	

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
Delivery Air	110	(psi)
Element Outlet Temperature	174	(°F)
Running Hours	60446	(hours)
Loading Hours	51980	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	34	30.5	OW-2-9S	75.0	28	19.5	OW-2-10D	97.2	23	27.0
OW-2-3	94.3	24	30.0	OW-2-10S	75.0	28	31.0	OW-2-11D	100.8	32	32.0
OW-2-4	94.7	27	37.0	OW-2-11S	76.5	29	11.0	OW-2-12	94.0	31	19.0
OW-2-5	95.3	30	30.0	OW-2-13S	75.0	30	18.5	OW-2-13D	97.0	OFF	
OW-2-6	95.7	29	30.5	OW-2-15S	75.0	28	19.0	OW-2-14	96.4	35	28.0
OW-2-7	96.0	30	29.5	OW-2-16S	75.5	28	19.0	OW-2-15D	94.6	34	30.0
OW-2-8	96.3	29	30.0	OW-2-18S	74.5	27	18.5	OW-2-16D	94.1	33	26.0
OW-2-9D	96.7	28	30.0	OW-2-20S	79.0	27	21.0	OW-2-17	95.0	30	28.5

Comments: **All Points set at 30 scfh**

Notes:

Date: 11/22/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	29.5	OW-2-22S	76.0	31	20.0	OW-2-26D	95.0	28	31.0
OW-2-19	96.1	30	29.0	OW-2-24S	77.8	29	22.5	OW-2-27	93.5	28	28.0
OW-2-20D	96.6	28	12.0	OW-2-26S	74.0	30	19.0	OW-2-28D	92.1	26	27.0
OW-2-21	96.6	30	27.5	OW-2-28S	76.0	30	20.0	OW-2-29	92.2	29	27.5
OW-2-22D	96.3	28	27.0	OW-2-30S	67.8	26	16.0	OW-2-30D	88.0	25	25.5
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	29	19.0	OW-2-31	86.0	28	26.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	29	21.0	OW-2-32	84.0	26	24.0
OW-2-25	96.0	31	8.5	OW-2-36	64.8	26	17.5	OW-2-33	82.0	50	25.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi				
OW-2-37	62.8	30	19.0	OW-2-45	61.1	31	20.0				
OW-2-38	62.1	30	19.0	OW-2-46	61.0	30	19.0				
OW-2-39	60.0	29	17.5	OW-2-47	60.5	31	19.5				
OW-2-40	61.7	POINT	OFF	-	-						
OW-2-241	61.7	27	19.0	-	-						
OW-2-42	61.6	28	19.5	-	-						
OW-2-43	61.4	POINT	OFF	-	-			-	-	-	-
OW-2-44R	60.6	34	19.0	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes.

Date: 11/22/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No _____
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed None
4) Supplies needed None
5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes _____ No ✓
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) _____ 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 _____ No ✓

Annual maintenance in 3 days

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 12/20/19
Time: 0715
Weather: 20s sun cold
Inside Trailer Temperature: operable
Performed By: Matt Comunale

O_2 Generator

Hours	28993		
Feed Air Pressure *	140	(psi)	
Cycle Pressure * (L / R)	High: 68 / 71	(psi)	
	Low: 2 / 6	(psi)	
Oxygen Receiver Pressure *	71	(psi)	
Oxygen Receiver Tank Pressure (reading from blue tank)	115	(psi)	
Oxygen Purity	90.7	(percent)	

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	140	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	176	(°F)
Running Hours	9286	(hours)
Loading Hours	6552	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	32	25.0	OW-1-5S	67.3	33	17.0	OW-1-9D	88.5	43	18.0
OW-1-2	96.5	OFF		OW-1-6S	67.0	34	18.0	OW-1-10D	87.2	30	27.0
OW-1-3	96.3	37	30.0	OW-1-7S	66.9	39	17.0	OW-1-11D	86.1	30	29.0
OW-1-4	95.0	30	30.0	OW-1-8S	66.7	29	17.0	OW-1-12D	85.3	35	28.0
OW-1-5D	93.9	30	29.0	OW-1-9S	66.0	28	18.0	OW-1-13D	84.7	30	28.0
OW-1-6D	92.4	30	29.0	OW-1-10S	54.6	32	12.0	OW-1-14D	84.1	31	28.0
OW-1-7D	91.1	31	28.0	OW-1-11S	54.1	36	14.0	OW-1-15D	83.3	32	28.0
OW-1-8D	89.6	35	28.0	OW-1-12S	53.6	33	14.0	OW-1-16D	82.5	31	13.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 12/20/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13.0	OW-1-17D	79.5	36	13.0	OW-1-21S	49.3	36	11.0
OW-1-14S	52.7	28	14.0	OW-1-18D	78.3	32	25.0	OW-1-22S	49.3	27	11.0
OW-1-15S	52.2	30	13.0	OW-1-19D	78.9	35	26.0	OW-1-23S	48.8	32	11.0
OW-1-16SR	51.8	31	26.0	OW-1-20D	79.5	34	26.0	OW-1-24S	48.4	38	11.0
OW-1-17S	50.7	36	24.0	OW-1-21D	79.5	33	25.0	OW-1-25S	48.8	30	12.0
OW-1-18S	50.2	29	12.0	OW-1-22D	79.5	38	24.0	OW-1-26S	48.3	33	12.0
OW-1-19S	49.7	OFF		OW-1-23D	78.7	47	24.0	OW-1-27S	48.3	29	12.0
OW-1-20S	49.3	OFF		OW-1-24D	78.2	32	26.0	OW-1-28S	48.3	31	13.0

Comments: **All Points set at 30 scfh**

Injection Bank 7				Injection Bank 8				Injection Bank 9			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-1-25D	78.1	27	26.0	OW-1-29S	48.5	29	12.0	OW-1-33D	83.2	28	28.0
OW-1-26D	78.1	45	26.0	OW-1-30S	48.8	32	13.0	OW-1-34D	84.5	32	28.0
OW-1-27D	77.9	26	27.0	OW-1-31S	49.3	33	13.0	OW-1-35D	85.0	36	28.0
OW-1-28D	78.0	30	26.0	OW-1-32S	49.3	28	12.0	OW-1-36D	85.0	30	28.0
OW-1-29D	78.4	32	25.0	OW-1-33S	49.7	30	12.0	OW-1-37D	84.0	32	28.0
OW-1-30D	79.0	30	28.0	OW-1-34S	50.1	34	12.0	OW-1-38D	82.0	28	26.0
OW-1-31D	80.5	OFF		OW-1-35S	50.3	31	13.0	OW-1-39D	78.0	29	26.0
OW-1-32D	81.6	30	27.0	OW-1-36S	50.3	28	13.0	OW-1-40D	76.0	34	25.0

Comments: **All points set at 30 scfh**

Notes:

Date: 12/20/14

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	30	12.0	OW-1-41D	73.6	33	22.0	OW-1-43	67.4	32	19.0
OW-1-38S	50.6	31	13.0	OW-1-42D	71.0	33	20.0	OW-1-44	66.6	30	18.0
OW-1-39S	50.7	38	12.0	OW-1-45	65.7	30	18.0	OW-1-51R	60.6	28	16.0
OW-1-40S	51.1	32	14.0	OW-1-46	64.3	31	17.0	OW-1-52	59.3	32	16.0
OW-1-41S	51.5	30	14.0	OW-1-47	63.4	30	17.0	OW-1-53	60.0	29	16.0
OW-1-42S	51.3	29	13.0	OW-1-48	62.5	32	18.0	OW-1-54	60.0	31	15.0
-	-			OW-1-49	61.5	29	16.0	-	-		
-	-			OW-1-50	61.0	30	16.0	-	-		

Comments: **All Points set at 30 scfh**

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: **All points set at 30 scfh**

Notes:

Date: 12/20/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No ____
2) Abnormal conditions observed (e.g. vandalism) None
3) Other major activities completed None
4) Supplies needed None
5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 12/20/19
Time: 0750
Weather: 20s-30s, Sunny
Inside Trailer Temperature: ~40s-60s
Performed By: Ore, Vazquez

O_2 Generator				Compressor (Kaesar Rotary Screw)		
Hours		51912		Compressor Tank *	110	(psi)
Feed Air Pressure *		110	(psi)	Delivery Air	(G) ~~94~~ 110	(psi)
Cycle Pressure * (L / R)	High:	59 / 62	(psi)	Element Outlet Temperature	(G) ~~196~~ 174	(°F)
	Low:	Ø / Ø	(psi)			
Oxygen Receiver Pressure *		58	(psi)	Running Hours	(G) ~~60785~~ 60788	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)		127	(psi)	Loading Hours	(G) 52 52122	(hours)
Oxygen Purity		81.9	(percent)			

* maximum reading during loading cycle

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: ____________

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-2-2	90.2	31	31.5	OW-2-9S	75.0	36	20.0	OW-2-10D	97.2	32	27.0
OW-2-3	94.3	38	29.5	OW-2-10S	75.0	32	31.0	OW-2-11D	100.8	32	32.5
OW-2-4	94.7	28	36.0	OW-2-11S	76.5	36	10.5	OW-2-12	94.0	34	19.0
OW-2-5	95.3	11	30	OW-2-13S	75.0	31	19.0	OW-2-13D	97.0	<10	16.0
OW-2-6	95.7	31	30.5	OW-2-15S	75.0	36	19.0	OW-2-14	96.4	28	28.0
OW-2-7	96.0	32	30	OW-2-16S	75.5	36	19.5	OW-2-15D	94.6	29	30.0
OW-2-8	96.3	32	30	OW-2-18S	74.5	36	19.0	OW-2-16D	94.1	32	26.0
OW-2-9D	96.7	34	30	OW-2-20S	79.0	37	21.0	OW-2-17	95.0	32	29.0

Comments: **All Points set at 30 scfh**
Compressor leaking 0.1-

Notes: 10D & 13D Switched - Differently labeled.

Date: 12/20/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	33	30.0	OW-2-22S	76.0	32	20.0	OW-2-26D	95.0	32	32.0
OW-2-19	96.1	30	29.5	OW-2-24S	77.8	35	22.5	OW-2-27	93.5	32	28.0
OW-2-20D	96.6	35	7.0	OW-2-26S	74.0	32	19.0	OW-2-28D	92.1	33	27.0
OW-2-21	96.6	32	28.0	OW-2-28S	76.0	31	21.0	OW-2-29	92.2	31	28.0
OW-2-22D	96.3	32	27.0	OW-2-30S	67.8	32	16.5	OW-2-30D	88.0	35	25.5
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	34	19.5	OW-2-31	86.0	34	26.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	30	21.0	OW-2-32	84.0	38	24.0
OW-2-25	96.0	34	8.0	OW-2-36	64.8	30	18.0	OW-2-33	82.0	30	26.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi				
OW-2-37	62.8	84	19.5	OW-2-45	61.1	34	19.5				
OW-2-38	62.1	32	19	OW-2-46	61.0	35	19				
OW-2-39	60.0	32	18	OW-2-47	60.5	34	19				
OW-2-40	61.7	POINT	OFF	-	-						
OW-2-241	61.7	34	19.5	-	-						
OW-2-42	61.6	32	19.5	-	-						
OW-2-43	61.4	POINT	OFF	-	-			-	-	-	-
OW-2-44R	60.6	35	19.5	-	-			-	-	-	-

Comments: **All points set at 30 scfh**

Notes:

Date: 12/20/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes ✓ No ____
2) Abnormal conditions observed (e.g. vandalism) oil leaking from Compressor onto floor, Compressor Overheated
3) Other major activities completed System Compressor leak fixed, added oil to compressor
4) Supplies needed None
5) Visitors Matt Corrado

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ✓ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 1/17/2020
Time: 0730
Weather: Low 20s, Sunny
Inside Trailer Temperature: Warm, Operational
Performed By: C. Hayes

O_2 Generator

Hours	29,391	
Feed Air Pressure *	139	(psi)
Cycle Pressure * (L / R) High:	67 | 68	(psi)
Low:	4 | 3	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	113	(psi)
Oxygen Purity	84.0	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	139	(psi)
Delivery Air	136	(psi)
Element Outlet Temperature	187	(°F)
Running Hours	9,727	(hours)
Loading Hours	6,844	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15,660.08

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	36	24.0	OW-1-5S	67.3	32	17.0	OW-1-9D	89.5	42	28.0
OW-1-2	96.5	OFF	OFF	OW-1-6S	67.0	38	18.0	OW-1-10D	87.2	30	26.5
OW-1-3	96.3	42	31.0	OW-1-7S	66.9	32	17.0	OW-1-11D	86.1	30	29.0
OW-1-4	95.0	44	30.0	OW-1-8S	66.7	30	18.0	OW-1-12D	85.3	30	28.0
OW-1-5D	93.9	32	29.0	OW-1-9S	66.0	30	18.0	OW-1-13D	84.7	30	28.0
OW-1-6D	92.4	33	29.0	OW-1-10S	54.6	26	12.5	OW-1-14D	84.1	29	28.0
OW-1-7D	91.1	32	28.0	OW-1-11S	54.1	31	12.0	OW-1-15D	83.3	24	28.0
OW-1-8D	89.6	34	28.0	OW-1-12S	53.6	28	12.5	OW-1-16D	82.5	30	14.0

Comments: All Points set at 30 scfh

Notes:

Date: 1/17/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13.0	OW-1-17D	79.5	29	13.0	OW-1-21S	49.3	32	11.0
OW-1-14S	52.7	27	14.0	OW-1-18D	78.3	31	26.0	OW-1-22S	49.3	30	11.0
OW-1-15S	52.2	30	13.0	OW-1-19D	78.9	33	28.0	OW-1-23S	48.8	31	11.0
OW-1-16SR	51.6	31	26.0	OW-1-20D	79.5	30	26.0	OW-1-24S	48.4	32	11.0
OW-1-17S	50.7	36	24.0	OW-1-21D	79.5	30	25.0	OW-1-25S	48.8	30	12.0
OW-1-18S	50.2	30	12.0	OW-1-22D	79.5	32	24.0	OW-1-26S	48.3	32	12.0
OW-1-19S	49.7	OFF	OFF	OW-1-23D	78.7	34	25.0	OW-1-27S	48.3	28	13.0
OW-1-20S	49.3	OFF	OFF	OW-1-24D	78.2	28	26.0	OW-1-28S	48.3	29	13.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi	Injection Bank 9	DTW	DO(mg/L)	PID
OW-1-25D	78.1	30	26.0	OW-1-29S	48.5	30	13.0	OW-1-33D	83.2	28	280
OW-1-26D	78.1	25	26.0	OW-1-30S	48.8	26	13.0	OW-1-34D	84.5	32	29.0
OW-1-27D	77.9	30	27.0	OW-1-31S	49.3	30	13.0	OW-1-35D	85.0	30	28.0
OW-1-28D	78.0	29	26.0	OW-1-32S	49.3	28	12.0	OW-1-36D	85.0	29	29.0
OW-1-29D	78.4	29	25.0	OW-1-33S	49.7	30	13.0	OW-1-37D	84.0	34	28.0
OW-1-30D	79.0	28	29.0	OW-1-34S	50.1	32	12.0	OW-1-38D	82.0	30	27.0
OW-1-31D	80.5	OFF	OFF	OW-1-35S	50.3	29	13.0	OW-1-39D	78.0	29	26.0
OW-1-32D	81.6	28	27.0	OW-1-36S	50.3	28	13.0	OW-1-40D	76.0	27	25.0

Comments: **All points set at 30 scfh**

Notes:

Date: 1/17/19

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	28	11.0	OW-1-41D	73.6	27	22.0	OW-1-43	67.4	30	20.0
OW-1-38S	50.6	30	13.0	OW-1-42D	71.0	31	20.0	OW-1-44	66.6	28	18.0
OW-1-39S	50.7	30	12.0	OW-1-45	65.7	28	19.0	OW-1-51R	60.6	28	16.0
OW-1-40S	51.1	30	13.0	OW-1-46	64.3	30	17.0	OW-1-52	59.3	30	15.0
OW-1-41S	51.5	30	13.0	OW-1-47	63.4	32	17.0	OW-1-53	60.0	28	16.0
OW-1-42S	51.3	30	13.0	OW-1-48	62.5	29	18.0	OW-1-54	60.0	29	16.0
-	-			OW-1-49	61.5	29	16.0	-	-		
-	-			OW-1-50	61.0	29	16.0	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: All points set at 30 scfh

Notes:

Date: 1/17/19

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes _____ No ✓

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed Check Fire Extinguisher (Good)

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____

* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded

Low (red) _____ 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 _____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes _____	No ✓
2) Coalescing changed	Yes _____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 1/17/20
Time: 0700
Weather: 25 sun wind
Inside Trailer Temperature: operable
Performed By: Matt Corrado

O_2 Generator

Hours: 52131

Feed Air Pressure *: 110 (psi)

Cycle Pressure * (L / R): High: 62 | 61 (psi); Low: 0 | 0 (psi)

Oxygen Receiver Pressure *: 62 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 133 (psi)

Oxygen Purity: 79.0 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)

Delivery Air: 110 (psi)

Element Outlet Temperature: 171 (°F)

Running Hours: 61003 (hours)

Loading Hours: 52336 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y / N) Condensate Emptied (Y / N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	50	30.0	OW-2-9S	75.0	38	20.0	OW-2-10D	97.2	37	27.5
OW-2-3	94.3	41	23.0	OW-2-10S	75.0	32	31.0	OW-2-11D	100.8	31	32.5
OW-2-4	94.7	54	35.0	OW-2-11S	76.5	28	11.0	OW-2-12	94.0	27	19.0
OW-2-5	95.3	33	30.0	OW-2-13S	75.0	29	19.0	OW-2-13D	97.0	OFF	—
OW-2-6	95.7	32	30.5	OW-2-15S	75.0	28	19.0	OW-2-14	96.4	32	28.0
OW-2-7	96.0	33	30.0	OW-2-16S	75.5	29	19.0	OW-2-15D	94.6	31	30.0
OW-2-8	96.3	30	30.0	OW-2-18S	74.5	29	19.0	OW-2-16D	94.1	28	26.0
OW-2-9D	96.7	44	30.0	OW-2-20S	79.0	28	21.0	OW-2-17	95.0	28	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 1/17/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	34	30.0	OW-2-22S	76.0	32	20.0	OW-2-26D	95.0	37	31.5
OW-2-19	96.1	30	29.5	OW-2-24S	77.8	37	23.5	OW-2-27	93.5	40	28.0
OW-2-20D	96.6	29	6.0	OW-2-26S	74.0	36	19.0	OW-2-28D	92.1	36	27.0
OW-2-21	96.6	30	28.0	OW-2-28S	76.0	30	21.0	OW-2-29	92.2	34	28.0
OW-2-22D	96.3	31	27.5	OW-2-30S	67.8	31	17.0	OW-2-30D	88.0	31	26.0
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	31	19.0	OW-2-31	86.0	26	26.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	33	21.0	OW-2-32	84.0	27	24.0
OW-2-25	96.0	31	7.5	OW-2-36	64.8	30	18.0	OW-2-33	82.0	24	26.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi
OW-2-37	62.8	32	19.5	OW-2-45	61.1	28	21.0
OW-2-38	62.1	32	19.0	OW-2-46	61.0	29	19.0
OW-2-39	60.0	30	18.0	OW-2-47	60.5	41	7.0
OW-2-40	61.7	POINT	OFF	-	-		
OW-2-241	61.7	31	19.0	-	-		
OW-2-42	61.6	31	19.5	-	-		
OW-2-43	61.4	POINT	OFF	-	-		
OW-2-44R	60.6	28	19.5	-	-		

Comments: **All points set at 30 scfh**

Notes:

Date: 1/17/20

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) Compressor leaked all oil onto floor-cleaned with pads. System off upon arrival.

3) Other major activities completed Added oil to compressor. System shut down when check completed

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ✓ 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 ____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 2/19/20
Time: 0700
Weather: 40s, P Cloudy
Inside Trailer Temperature: OPERABLE
Performed By: MIKE QUINLAN

O_2 Generator

Hours	29850	
Feed Air Pressure *	135	(psi)
Cycle Pressure * (L / R) High:	68 / 72	(psi)
Cycle Pressure * (L / R) Low:	2 / 2	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Receiver Tank Pressure (reading from blue tank)	113	(psi)
Oxygen Purity	83.8	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	191	(°F)
Running Hours	10236	(hours)
Loading Hours	7179	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: 15650.08

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-1-1	95.5	24	26	OW-1-5S	67.3	24	17	OW-1-9D	89.5	34	28
OW-1-2	96.5	24	30	OW-1-6S	67.0	22	18	OW-1-10D	87.2	26	27
OW-1-3	96.3	POINT	OFF	OW-1-7S	66.9	24	17	OW-1-11D	86.1	24	29
OW-1-4	95.0	12	30	OW-1-8S	66.7	26	18	OW-1-12D	85.3	20	28
OW-1-5D	93.9	26	29	OW-1-9S	65.0	24	18	OW-1-13D	84.7	24	28
OW-1-6D	92.4	24	29	OW-1-10S	54.6	26	13	OW-1-14D	84.1	24	28
OW-1-7D	91.3	22	28	OW-1-11S	54.1	28	14	OW-1-15D	83.3	18	28
OW-1-8D	89.6	20	29	OW-1-12S	53.6	24	12	OW-1-16D	82.5	16	14

Comments: All Points set at 30 scfh

Notes:
ZONE 1 : Bank 1+3
ZONE 2 : Bank 2+4
ZONE 3 : Bank 5+6
ZONE 4 : Bank 7+8
ZONE 5 : Bank 9+10
ZONE 6 : Bank 11+12
ZONE 7 : Bank 2+6
ZONE 8 : Bank 2+5

Date: 2/19/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13	OW-1-17D	79.5	24	13	OW-1-21S	49.3	26	11
OW-1-14S	52.7	26	14	OW-1-18D	78.3	28	26	OW-1-22S	49.3	28	11
OW-1-15S	52.2	26	13	OW-1-19D	78.9	10	26	OW-1-23S	48.8	28	11
OW-1-16SR	51.6	28	26	OW-1-20D	79.5	28	26	OW-1-24S	48.4	26	11
OW-1-17S	50.7	20	24	OW-1-21D	79.5	28	25	OW-1-25S	48.8	28	12
OW-1-18S	50.2	28	12	OW-1-22D	79.5	26	24	OW-1-26S	48.3	30	12
OW-1-19S	49.7	POINT	OFF	OW-1-23D	78.7	26	24	OW-1-27S	48.3	26	12
OW-1-20S	49.3	POINT	OFF	OW-1-24D	78.2	28	26	OW-1-28S	48.3	30	13

Comments: **All Points set at 30 scfh**

Injection Bank 7				Injection Bank 8				Injection Bank 9			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-1-25D	78.1	26	26	OW-1-29S	48.5	28	12	OW-1-33D	83.2	26	28
OW-1-26D	78.1	14	27	OW-1-30S	48.8	24	13	OW-1-34D	84.5	26	29
OW-1-27D	77.9	26	27	OW-1-31S	49.3	30	13	OW-1-35D	85.0	34	28
OW-1-28D	78.0	26	26	OW-1-32S	49.3	26	12	OW-1-36D	85.0	28	29
OW-1-29D	78.4	24	25	OW-1-33S	49.7	24	13	OW-1-37D	84.0	32	28
OW-1-30D	79.0	24	29	OW-1-34S	50.1	28	12	OW-1-38D	82.0	28	27
OW-1-31D	80.5	POINT	OFF	OW-1-35S	50.3	26	13	OW-1-39D	78.0	26	26
OW-1-32D	81.6	26	27	OW-1-36S	50.3	28	13	OW-1-40D	76.0	26	26

Comments: **All points set at 30 scfh**

Notes: ZONE 3: BANK 5+6 ZONE 5: BANK 9+10 ZONE 7: 2+6
ZONE 4: BANK 7+8 ZONE 6: BANK 11+12 ZONE 8: 2+5

Date: 2/19/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	24	12	OW-1-41D	73.6	26	22 29 NM	OW-1-43	67.4	26	20
OW-1-38S	50.6	28	13	OW-1-42D	71.0	30	20 18 NM	OW-1-44	66.6	28	18
OW-1-39S	50.7	22	12	OW-1-45	65.7	28	19 16 NM	OW-1-51R	60.6	28	16
OW-1-40S	51.1	32	13	OW-1-46	64.3	30	17 16 NM	OW-1-52	59.3	26	16
OW-1-41S	51.5	28	13	OW-1-47	63.4	28	17	OW-1-53	60.0	28	16
OW-1-42S	51.3	28	13	OW-1-48	62.5	26	18	OW-1-54	60.0	24	16
-	-			OW-1-49	61.5	28	16	-	-		
-	-			OW-1-50	61.0	28	16	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
Depth (ft)		scfh	psi	Depth (ft)		scfh	psi	DTW	DO(mg/L)		PID

Comments: All points set at 30 scfh

Notes: ZONE 5: Bank 9+10 ZONE 7: 2+6
ZONE 6: Bank 11+12 ZONE 8: 2+5

Date:

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) NONE

3) Other major activities completed WIPED DOWN EQUIPMENT & CHECKED FIRE EXTINGUISHER

4) Supplies needed NONE

5) Visitors NONE

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) ____ 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 ____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes ____	No ✓
2) Coalescing changed	Yes ____	No ✓

DRYER IN RED, SEEMS TO BE OPERATING FINE MAY BE TO A/C UNIT BEING TURNED OFF. WILL KEEP EYE ON THIS

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 2/19/20
Time: 0710
Weather: 40 Sun
Inside Trailer Temperature: warm
Performed By: Matt Gonuda

O_2 Generator

Hours: 52614

Feed Air Pressure *: 110 (psi)

Cycle Pressure * (L / R): High: 65 | 67 (psi); Low: 0 | 1 (psi)

Oxygen Receiver Pressure *: 64 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank): 130 (psi)

Oxygen Purity: 83.1 (percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)

Delivery Air: 110 (psi)

Element Outlet Temperature: 169 (°F)

Running Hours: 61486 (hours)

Loading Hours: 52808 (hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-2-2	90.2	18	31.0	OW-2-9S	75.0	25	20.0	OW-2-10D	97.2	22	27.5
OW-2-3	94.3	28	21.0	OW-2-10S	75.0	26	31.0	OW-2-11D	100.8	28	32.5
OW-2-4	94.7	17	38.0	OW-2-11S	76.5	24	10.5	OW-2-12	94.0	24	19.0
OW-2-5	95.3	22	30.0	OW-2-13S	75.0	26	19.0	OW-2-13D	97.0	OFF	
OW-2-6	95.7	24	31.0	OW-2-15S	75.0	22	19.0	OW-2-14	96.4	37	28.5
OW-2-7	96.0	21	30.0	OW-2-16S	75.5	23	19.0	OW-2-15D	94.6	37	30.0
OW-2-8	96.3	22	30.0	OW-2-18S	74.5	26	19.0	OW-2-16D	94.1	33	26.0
OW-2-9D	96.7	49	30.0	OW-2-20S	79.0	26	21.0	OW-2-17	95.0	24	28.0

Comments: All Points set at 30 scfh

Notes:

Date: 2/19/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	30	29.5	OW-2-22S	76.0	25	20.0	OW-2-26D	95.0	38	31.5
OW-2-19	96.1	25	29.5	OW-2-24S	77.8	21	22.5	OW-2-27	93.5	28	28.0
OW-2-20D	96.6	23	6.0	OW-2-26S	74.0	24	19.0	OW-2-28D	92.1	38	27.0
OW-2-21	96.6	27	28.0	OW-2-28S	76.0	28	20.5	OW-2-29	92.2	26	28.0
OW-2-22D	96.3	30	27.5	OW-2-30S	67.8	25	16.5	OW-2-30D	88.0	24	26.0
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	24	19.0	OW-2-31	86.0	39	27.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	27	21.0	OW-2-32	84.0	33	24.5
OW-2-25	96.0	27	7.0	OW-2-36	64.8	27	18.0	OW-2-33	82.0	26	26.5

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi
OW-2-37	62.8	31	19.5	OW-2-45	61.1	30	19.5
OW-2-38	62.1	31	19.0	OW-2-46	61.0	27	19.0
OW-2-39	60.0	30	18.0	OW-2-47	60.5	21	19.0
OW-2-40	61.7	POINT	OFF	-	-		
OW-2-241	61.7	30	19.5	-	-		
OW-2-42	61.6	28	19.5	-	-		
OW-2-43	61.4	POINT	OFF	-	-		
OW-2-44R	60.6	27	19.5	-	-		

Comments: **All points set at 30 scfh**

Notes:

Date: 2/19/20

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes ✓ No ____

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed Little bit of oil added to Compressor

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No ____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ 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 ____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No ✓
2) Coalescing changed Yes ____ No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 1

Oxygen Injection Remedial System Number 1
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/10/20
Time: 0700
Weather: 40s clouds
Inside Trailer Temperature: Unnoticed
Performed By: Matt Connolly

O_2 Generator

Hours	30146		
Feed Air Pressure *	135 (psi)		
Cycle Pressure * (L / R)	High: 71 | 72 (psi)		
	Low: 3 | 5 (psi)		
Oxygen Receiver Pressure *	72 (psi)		
Oxygen Receiver Tank Pressure (reading from blue tank)	113 (psi)		
Oxygen Purity	84.1 (percent)		

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	135	(psi)
Delivery Air	140	(psi)
Element Outlet Temperature	192	(°F)
Running Hours	10561	(hours)
Loading Hours	7392	(hours)

* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-1	95.5	30	26.0	OW-1-5S	67.3	66	17.0	OW-1-9D	89.5	32	28.0
OW-1-2	96.5	OFF	–	OW-1-6S	67.0	29	18.0	OW-1-10D	87.2	32	27.0
OW-1-3	96.3	33	30.0	OW-1-7S	66.9	28	17.0	OW-1-11D	86.1	32	29.0
OW-1-4	95.0	30	30.0	OW-1-8S	66.7	31	18.0	OW-1-12D	85.3	29	28.0
OW-1-5D	93.9	32	29.0	OW-1-9S	66.0	26	18.0	OW-1-13D	84.7	30	28.0
OW-1-6D	92.4	28	29.0	OW-1-10S	54.6	28	13.0	OW-1-14D	84.1	31	28.0
OW-1-7D	91.1	30	28.0	OW-1-11S	54.1	30	14.0	OW-1-15D	83.3	29	28.0
OW-1-8D	89.6	31	28.0	OW-1-12S	53.5	28	14.0	OW-1-16D	82.5	26	13.0

Comments: All Points set at 30 scfh

Notes:

Date: 3/10/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-13S	53.1	30	13.0	OW-1-17D	79.5	26	13.0	OW-1-21S	49.3	28	11.0
OW-1-14S	52.7	28	14.0	OW-1-18D	78.3	28	26.0	OW-1-22S	49.3	28	11.0
OW-1-15S	52.2	30	13.0	OW-1-19D	78.9	12	26.0	OW-1-23S	48.8	28	11.0
OW-1-16SR	51.6	30	26.0	OW-1-20D	79.5	30	26.0	OW-1-24S	48.4	28	11.0
OW-1-17S	50.7	28	24.0	OW-1-21D	79.5	24	25.0	OW-1-25S	48.8	29	12.0
OW-1-18S	50.2	29	12.0	OW-1-22D	79.5	32	24.0	OW-1-26S	48.3	27	12.0
OW-1-19S	49.7	-OFF-		OW-1-23D	78.7	35	24.0	OW-1-27S	48.3	27	13.0
OW-1-20S	49.3	-OFF-		OW-1-24D	78.2	29	26.0	OW-1-28S	48.3	10	13.0

Comments: **All Points set at 30 scfh**

Injection Bank 7				Injection Bank 8				Injection Bank 9			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID
OW-1-25D	78.1	28	26.0	OW-1-29S	48.5	29	12.0	OW-1-33D	83.2	30	28.0
OW-1-26D	78.1	30	26.0	OW-1-30S	48.8	32	13.0	OW-1-34D	84.5	29	28.0
OW-1-27D	77.9	30	26.0	OW-1-31S	49.3	28	13.0	OW-1-35D	85.0	26	28.0
OW-1-28D	78.0	29	26.0	OW-1-32S	49.3	26	12.0	OW-1-36D	85.0	29	29.0
OW-1-29D	78.4	32	25.0	OW-1-33S	49.7	26	12.0	OW-1-37D	84.0	30	28.0
OW-1-30D	79.0	25	30.0	OW-1-34S	50.1	30	12.0	OW-1-38D	82.0	29	27.0
OW-1-31D	80.5	-OFF-		OW-1-35S	50.3	30	13.0	OW-1-39D	78.0	28	26.0
OW-1-32D	81.6	29	27.0	OW-1-36S	50.3	28	13.0	OW-1-40D	76.0	20	25.0

Comments: **All points set at 30 scfh**

Notes:

Date: 3/10/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Hempstead Intersection Oxygen Injection Remedial System Number 1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		Depth (ft)	scfh	psi
OW-1-37S	50.5	27	12.0	OW-1-41D	73.6	29	22.0	OW-1-43	67.4	30	19.0
OW-1-38S	50.6	28	13.0	OW-1-42D	71.0	30	20.0	OW-1-44	66.6	30	18.0
OW-1-39S	50.7	23	12.0	OW-1-45	65.7	28	18.0	OW-1-51R	60.6	27	16.0
OW-1-40S	51.1	28	13.0	OW-1-46	64.3	30	18.0	OW-1-52	59.3	29	16.0
OW-1-41S	51.5	52	14.0	OW-1-47	63.4	31	17.0	OW-1-53	60.0	28	16.0
OW-1-42S	51.3	30	13.0	OW-1-48	62.5	28	18.0	OW-1-54	60.0	29	15.0
-	-			OW-1-49	61.5	28	16.0	-	-		
-	-			OW-1-50	61.0	29	16.0	-	-		

Comments: All Points set at 30 scfh

Injection Bank				Injection Bank				Injection Bank			
	Depth (ft)	scfh	psi		Depth (ft)	scfh	psi		DTW	DO(mg/L)	PID

Comments: All points set at 30 scfh

Notes:

Date: 3/10/20

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes ✓ No _____

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed None

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
Low (red) _____ 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 _____	No ✓

AS-80 O_2 Generator

1) Prefilter changed	Yes _____	No ✓
2) Coalescing changed	Yes _____	No ✓

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

158 Hilton Ave. Hempstead, NY
Oxygen Injection Remedial System Number 2
National Grid
Interim Remedial Measure
Project No. 1702897-30-1

Date: 3/13/20
Time: 0700
Weather: 40 rain
Inside Trailer Temperature: operable
Performed By: Matt Comolo

O_2 Generator

Hours: 53165
Feed Air Pressure *: 110 (psi)
Cycle Pressure * (L / R) High: 66 | 68 (psi)
Low: 1 | 0 (psi)
Oxygen Receiver Pressure *: 67 (psi)
Oxygen Receiver Tank Pressure (reading from blue tank): 130 (psi)
Oxygen Purity: 86.2 (percent)
* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *: 110 (psi)
Delivery Air: 110 (psi)
Element Outlet Temperature: 172 (°F)
Running Hours: 62037 (hours)
Loading Hours: 53351 (hours)
* maximum reading during loading cycle

Booster Pump (Powerex)

Hours: Broken

Air Tank & Eco-Drain

Condensate Purged (Y) N) Condensate Emptied (Y) N)

Injection Bank 1	Depth (ft)	scfh	psi	Injection Bank 2	Depth (ft)	scfh	psi	Injection Bank 3	Depth (ft)	scfh	psi
OW-2-2	90.2	30	29.5	OW-2-9S	75.0	31	20.0	OW-2-10D	97.2	31	27.5
OW-2-3	94.3	32	29.0	OW-2-10S	75.0	29	31.0	OW-2-11D	100.8	30	32.5
OW-2-4	94.7	30	34.0	OW-2-11S	76.5	31	11.0	OW-2-12	94.0	32	19.0
OW-2-5	95.3	31	30.0	OW-2-13S	75.0	30	19.0	OW-2-13D	97.0	OFF	
OW-2-6	95.7	30	30.5	OW-2-15S	75.0	33	19.0	OW-2-14	96.4	27	28.5
OW-2-7	96.0	32	30.0	OW-2-16S	75.5	32	19.0	OW-2-15D	94.6	28	30.0
OW-2-8	96.3	31	30.0	OW-2-18S	74.5	29	19.0	OW-2-16D	94.1	27	26.0
OW-2-9D	96.7	28	30.0	OW-2-20S	79.0	30	21.0	OW-2-17	95.0	32	29.0

Comments: **All Points set at 30 scfh**

Notes:

Date: 3/13/20

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

Hempstead Intersection Oxygen Injection Remedial System Number 2

Injection Bank 4	Depth (ft)	scfh	psi	Injection Bank 5	Depth (ft)	scfh	psi	Injection Bank 6	Depth (ft)	scfh	psi
OW-2-18D	95.5	39	29.5	OW-2-22S	76.0	26	20.0	OW-2-26D	95.0	27	31.5
OW-2-19	96.1	31	29.5	OW-2-24S	77.8	23	23.0	OW-2-27	93.5	30	28.0
OW-2-20D	96.6	32	7.0	OW-2-26S	74.0	26	19.0	OW-2-28D	92.1	24	27.0
OW-2-21	96.6	32	28.0	OW-2-28S	76.0	29	20.5	OW-2-29	92.2	31	28.0
OW-2-22D	96.3	26	27.5	OW-2-30S	67.8	30	17.0	OW-2-30D	88.0	33	26.0
OW-2-23	97.2	POINT	OFF	OW-2-34	71.0	27	19.0	OW-2-31	86.0	26	26.0
OW-2-24D	97.0	POINT	OFF	OW-2-35	69.2	29	21.0	OW-2-32	84.0	28	24.0
OW-2-25	96.0	30	8.5	OW-2-36	64.8	30	18.0	OW-2-33	82.0	32	26.0

Comments: **All Points set at 30 scfh**

Injection Bank 7	Depth (ft)	scfh	psi	Injection Bank 8	Depth (ft)	scfh	psi
OW-2-37	62.8	30	20.0	OW-2-45	61.1	28	19.5
OW-2-38	62.1	32	19.0	OW-2-46	61.0	26	19.0
OW-2-39	60.0	29	18.0	OW-2-47	60.5	29	19.0
OW-2-40	61.7	POINT	OFF	-	-		
OW-2-241	61.7	26	19.0	-	-		
OW-2-42	61.6	28	20.0	-	-		
OW-2-43	61.4	POINT	OFF	-	-		
OW-2-44R	60.6	28	19.5	-	-		

Comments: **All points set at 30 scfh**

Notes:

Date: 3/13/20

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.) Yes ✓ No _____

2) Abnormal conditions observed (e.g. vandalism) None

3) Other major activities completed None

4) Supplies needed None

5) Visitors None

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes ✓ No _____
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) _____ 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 _____ No ✓

AS-80 O_2 Generator

1) Prefilter changed Yes _____ No ✓
2) Coalescing changed Yes _____ No ✓

Appendix E

Monitoring Well Abandonment and Re-installation Logs

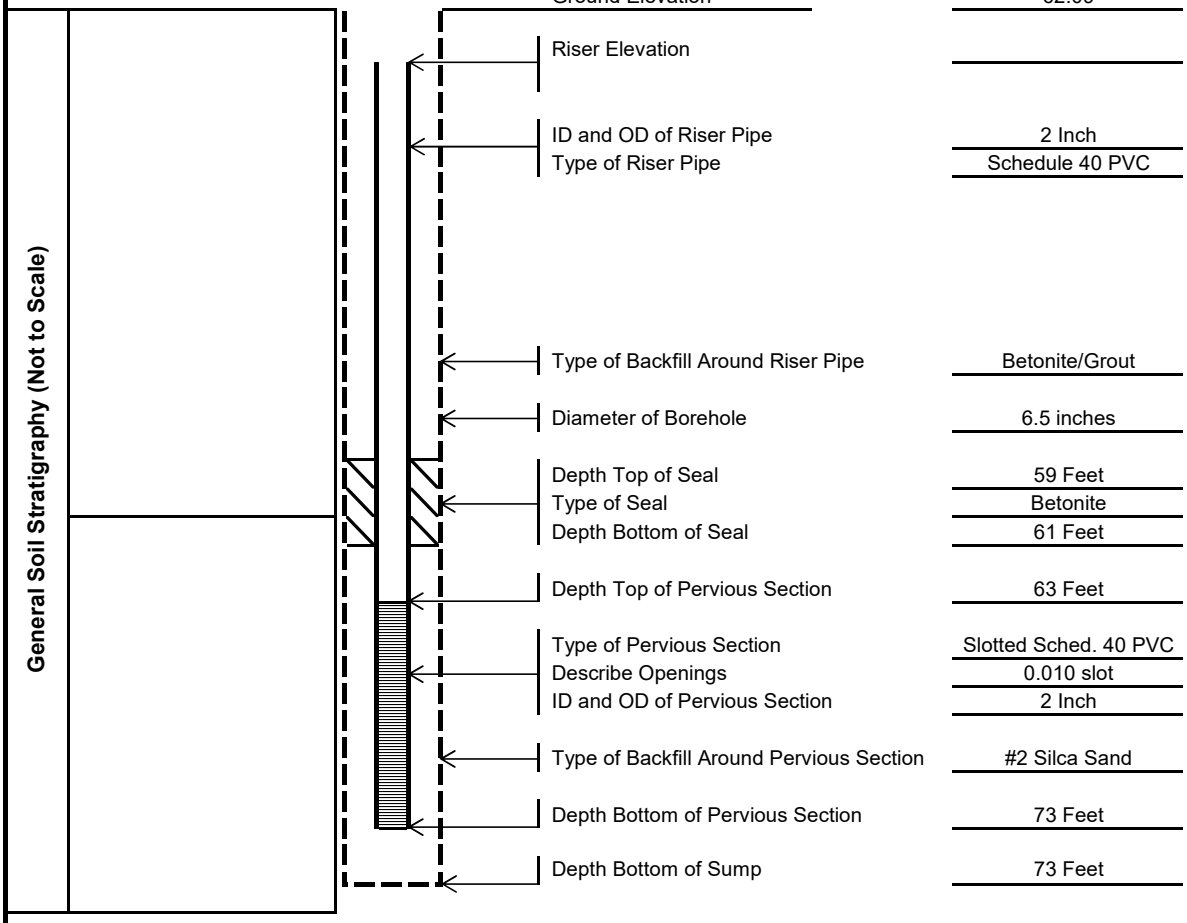
Well Decommisioning Record

HIMW-12I

PROJECT	Hempstead Intersection Former MGP Site
LOCATION	Hempstead, New York
CLIENT	National Grid
CONTRACTOR	ADT A Cascade Company
DRILLER	Tony Palomeque, Chris Iodice
GEI REP.	Craig Hayes and Mike Quinlan

PROJECT NO.	1905774.15.3
BORING NO.	HIMW-12I
LOCATION	Mirschel Park
NORTHING	
EASTING	
REMOVAL DATE	3/16/2020

Survey Datum: Vertical:
Horizontal:



Ground Elevation	62.09
Riser Elevation	
ID and OD of Riser Pipe	2 Inch
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill Around Riser Pipe	Betonite/Grout
Diameter of Borehole	6.5 inches
Depth Top of Seal	59 Feet
Type of Seal	Betonite
Depth Bottom of Seal	61 Feet
Depth Top of Pervious Section	63 Feet
Type of Pervious Section	Slotted Sched. 40 PVC
Describe Openings	0.010 slot
ID and OD of Pervious Section	2 Inch
Type of Backfill Around Pervious Section	#2 Silca Sand
Depth Bottom of Pervious Section	73 Feet
Depth Bottom of Sump	73 Feet

Decommissioning Data

Method:	Overdrill using a Sonic drill rig
Casing Retrieved (ft):	20 feet
Casing Left in Hole (ft):	53 Feet
Equipment:	Grout pump and Tremmie piping
Interval Grouted (ft bgs):	75 Feet

NOTES:

* Well cover and pad removed; backfilled with existing soil

*Due to the use of a sonic rig much of the PVC was pulverized while over drilling

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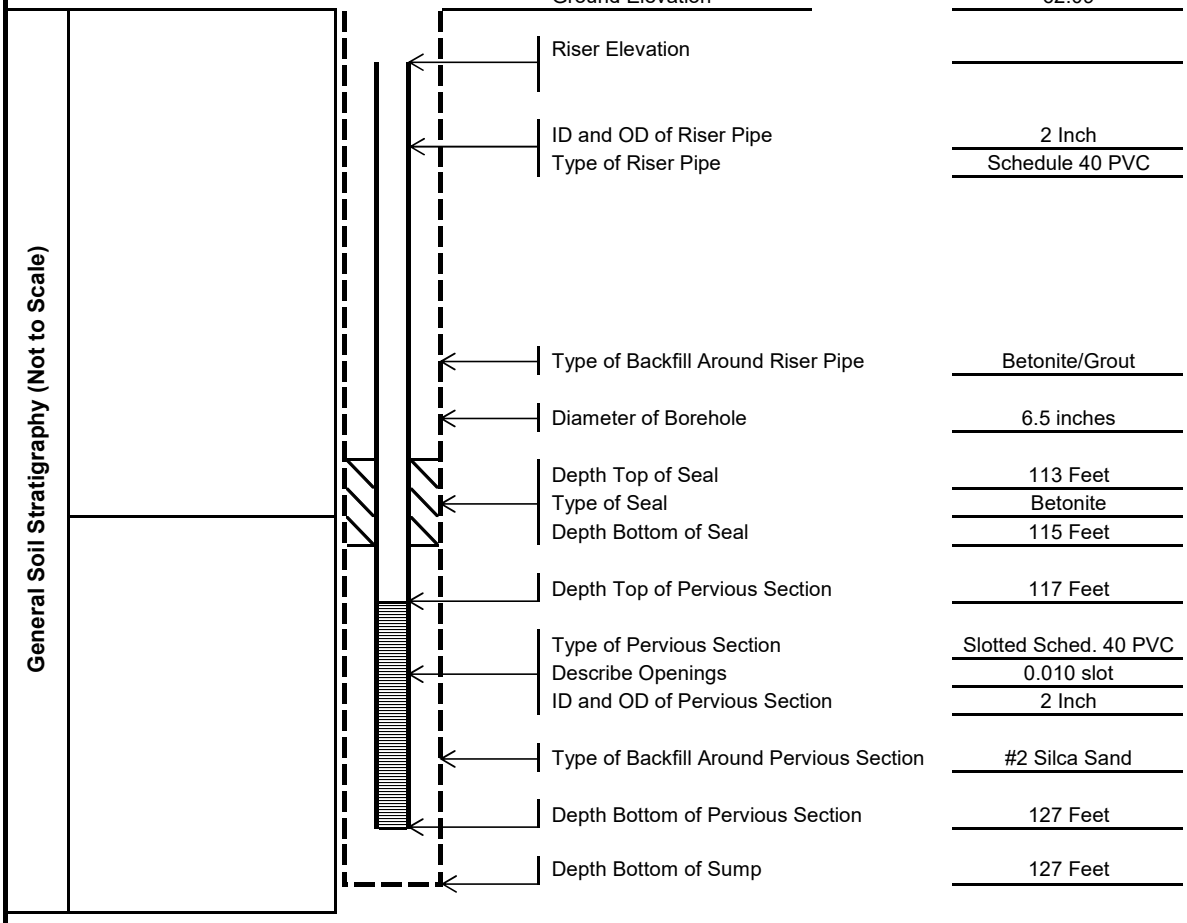
Well Decommisioning Record

HIMW-12D

PROJECT	Hempstead Intersection Former MGP Site	**PROJECT NO.**	1905774.15.3
LOCATION	Hempstead, New York	**BORING NO.**	HIMW-12D
CLIENT	National Grid	**LOCATION**	Mirschel Park
CONTRACTOR	ADT A Cascade Company	**NORTHING**	
DRILLER	Tony Palomeque, Chris Iodice	**EASTING**	
GEI REP.	Craig Hayes and Mike Quinlan	**REMOVAL DATE**	3/16/2020

Survey Datum: Vertical:
Horizontal:



Ground Elevation	62.09
Riser Elevation	
ID and OD of Riser Pipe	2 Inch
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill Around Riser Pipe	Betonite/Grout
Diameter of Borehole	6.5 inches
Depth Top of Seal	113 Feet
Type of Seal	Betonite
Depth Bottom of Seal	115 Feet
Depth Top of Pervious Section	117 Feet
Type of Pervious Section	Slotted Sched. 40 PVC
Describe Openings	0.010 slot
ID and OD of Pervious Section	2 Inch
Type of Backfill Around Pervious Section	#2 Silca Sand
Depth Bottom of Pervious Section	127 Feet
Depth Bottom of Sump	127 Feet

Decommissioning Data

Method:	Overdrill using a Sonic drill rig
Casing Retrieved (ft):	5 feet
Casing Left in Hole (ft):	122 Feet
Equipment:	Grout pump and Tremmie piping
Interval Grouted (ft bgs):	129 Feet

NOTES:

* Well cover and pad removed; backfilled with existing soil
*Due to the use of a sonic rig much of the PVC was pulverized while over drilling

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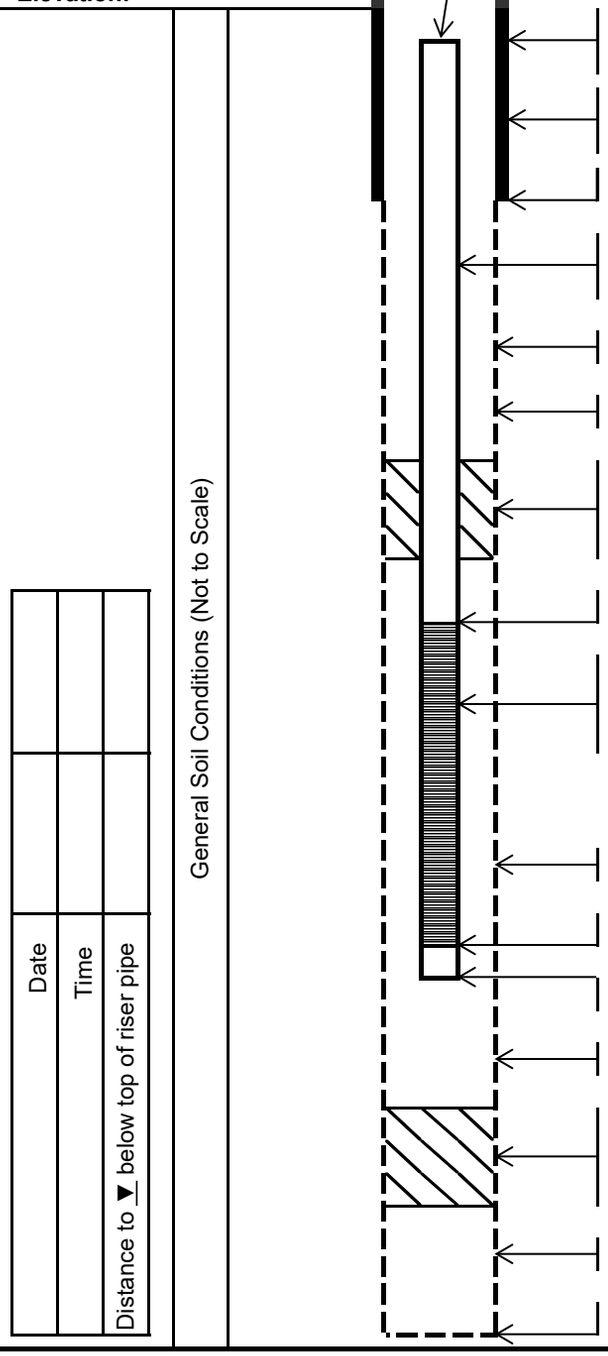
Groundwater Well Installation Log

HIMW-12IR

Project	Hempstead Intersection Former MGP Site	**GEI Proj. No.**	1905774.15.3
City / Town	Hempstead, New York	**Location**	Mirschel Park
Client	National Grid		
Contractor	ADT A Cascade Company		
Driller	Tony Palomeque **GEI Rep.** Mike Quinlan	**Install Date**	3/17/2020

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	N/A
Dist. Top of Surf. Casing to Top of Riser Pipe	
Type and Thickness of Seal around Surface Casing	6-inch concrete
ID of Surface Casing	8-inch well box
Type of Surface Casing	flush mount
Depth Bottom of Surface Casing	10-inches
ID and OD of Riser Pipe	2-inch sched. 40
Type of Riser Pipe	PVC riser pipe
Type of Backfill around Riser Pipe	betonite grout mix
Diameter of Borehole	6.5 inches
Depth Top of Seal	59 feet
Type of Seal	betonite
Depth Bottom of Seal	61 feet
Depth Top of Screened Section	63 feet
Type of Screen	2-inch 0.010 slotted
Description of Screen Openings	PVC screen
ID and OD of Screened Section	
Type of Filter Material	#2 morie sand
Depth Bottom of Screened Section	73 feet
Depth Bottom of Silt Trap	75 feet
Depth Bottom of Filter Material	N/A
Depth Top of Seal	N/A
Type of Seal	
Depth Bottom of Seal	N/A
Type of Backfill below Filter Material	N/A
Bottom of Borehole	75 feet

Notes:

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Appendix F

Institutional and Engineering Control Certification Form

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 130086

Site Name K - Intersection St. - Hempstead MGP

Site Address: Intersection St. Zip Code: 11530-
City/Town: Hempstead
County: Nassau
Site Acreage: 7.580

Reporting Period: February 28, 2019 to March 28, 2020

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7. Are all ICs/ECs in place and functioning as designed?	X	

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 130086 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
	KeySpan Gas East Corp	Ground Water Use Restriction Landuse Restriction Site Management Plan
		Ground Water Use Restriction Landuse Restriction
		Ground Water Use Restriction Landuse Restriction
		Ground Water Use Restriction Landuse Restriction
		Ground Water Use Restriction Landuse Restriction Site Management Plan
		Soil Management Plan Soil Management Plan Soil Management Plan Site Management Plan Soil Management Plan Site Management Plan Soil Management Plan Site Management Plan

Property use must be restricted residential, commercial, or industrial
Groundwater use is prohibited without treatment
Groundwater must be monitored per the SMP
Data must be reported per the SMP
Implement HASP and Excavation Work Plan prior to ground intrusive activity except landscaping

Box 4

Description of Engineering Controls

Parcel	Engineering Control
	Groundwater Treatment System Cover System Groundwater Treatment System Cover System Groundwater Treatment System Cover System Groundwater Treatment System Cover System Groundwater Treatment System Cover System

Provision of two-foot thick soil cover
Active oxygen delivery system in area of impacted groundwater

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 130086

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Christopher Morris (print name) at 110 Walt Whitman Road, Huntington Station, NY 11746 (print business address),

am certifying as Agent for National Grid **(Owner or Remedial Party)**

for the Site named in the Site Details Section of this form.

Chi Mor

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/27/2020
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jeff Parillo (print name) at 455 Winding Brook Drive (Suite 201), Glastonbury, CT 06033 (print business address)

am certifying as a Professional Engineer for the Owner/Remedial Party (Owner or Remedial Party)

Signature of Qualified Environmental Profession, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	4/27/2020 Date