

# Periodic Review Report

*251 HOMER STREET REDEVELOPMENT SITE  
NYSDEC SITE NUMBER C905037  
OLEAN, NEW YORK*



May 2020  
Revised July 2020

0362-019-001

Prepared For:

Olean Solar Land LLC  
&  
Homeridae LLC

Prepared By:



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Prepared By:



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**251 Homer Street Redevelopment Site**  
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## 1.0 INTRODUCTION

Benchmark Environmental Engineering & Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) on behalf of Olean Solar Land LLC (Owner) and Homeridae LLC (Lessee) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C905037, located in Olean, Cattaraugus County, New York (Site; see Figure 1).

This PRR has been prepared for the Site in accordance with NYSDEC DER-10/ Technical Guidance for Site Investigation and Remediation (Ref. 1). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form completed for the Site is included as Appendix A.

This PRR has been completed for the post-remedial activities at the Site for the period from April 16, 2019 to April 16, 2020. The annual Site inspection was completed by Benchmark on March 10, 2020.

### 1.1 Site Background

The 251 Homer Street Redevelopment Site was formerly part of the Socony-Vacuum Oil Company Refinery. The property and surrounding area operated as an oil refinery under several different entities between the 1880s and 1950s. Vacuum Oil merged with the Standard Oil Company, Inc. and in 1934 changed its name to Socony-Vacuum Oil Company (Socony); Socony operated until approximately 1954. These companies were predecessors of ExxonMobil Oil Corporation. The Socony refinery was divided into three sections and the #3 Works was the area where most of the refining took place. The 115-acre refinery was purchased by Mr. CJ Simpson in 1954 and ultimately became the Swan Finch Oil Company Olean Industries, which used the refinery tanks for storage of grain. In 1958, Swan Finch declared bankruptcy and in 1964 sold the facility to Felmont Oil, who subsequently removed the old refinery tanks and buildings. Felmont Oil sold the property to the County of Cattaraugus IDA in 1981, who in turn sold it to Benson Construction and Development, LLC (Benson) in 2005.

Benson entered into a Brownfield Cleanup Agreement (BCA) (BCP Site No. C905037) with the NYSDEC on April 20, 2010 to investigate and remediate the approximate 16.68-acre property comprised of one tax parcel identified as 251 Homer Street (SBL#94.032-1-2.11) located in the City of Olean, Cattaraugus County, New York and referred to as the 251 Homer

Street Redevelopment Site (see Figure 1). On July 3, 2014, Homer Street Properties, LLC submitted a BCP application amendment to be added as an additional Applicant (Volunteer) to the existing BCA. On August 30, 2016, Olean Solar Land LLC (as future property owner) and Homeridae LLC (as future lessee) submitted a BCP application amendment to be added as additional applicants (volunteers) to the existing BCA. A 60-day Advance Notification of Change in Ownership was submitted September 1, 2016 to notify the NYSDEC that Olean Solar Land LLC will be the new property owner. Homer Street Properties, LLC/Benson Construction and Development, LLC sold the property to Olean Solar Land LLC on June 28, 2018. A post-transfer of property notice was submitted to NYSDEC on July 12, 2018. Since both parties were named as volunteers on the BCA prior to the sale, no Certificate of Completion (COC) transfer was necessary.

The Site was subdivided per approval by the City of Olean Common Council on December 22, 2015. The subdivision lot lines were amended as approved by the Common Council on November 22, 2016. The Site parcel was divided on the tax maps after the sale took place in June 2018. The original parcel had tax map ID (94.032-1-2.11) was split into two parcels (94.032-1-2.11 and 94.032-1-2.12); however, the overall Site boundaries did not change. Figure 2 shows the two parcels addressed as 231 and 251 Homer Street. The May 2019 PRR includes documentation pertaining to subdivision of the Site.

## 1.2 Purpose/Scope

The SMP requires, among other things, periodic inspection, and certification that the IC/ECs implemented at the Site remain in place and are functioning as designed. This PRR serves that purpose as well as documenting post-remedial actions taken since the COC was issued.

## 2.0 SITE OVERVIEW

The approximate 16.68-acre 251 Homer Street Redevelopment Site is bounded by residential properties across Homer Street to the northwest; the Southern Tier Expressway I-86 to the southeast; and industrial/commercial properties to the northeast and southwest. The Site was undeveloped until construction began in August 2018.

The owner of the Site at the time of SMP approval was Benson Construction and Development, LLC and Homer Street Properties, LLC. Currently, Olean Solar Land LLC and Homeridae LLC retain the status and rights as COC holders.

An interim remedial measure (IRM) was performed in accordance with the NYSDEC-approved IRM Work Plan (Ref. 2) between October 2012 and February 2013. An additional IRM was performed in accordance with the NYSDEC-approved Additional IRM Work Plan (Ref. 3) between September 2014 and March 2015. Additional test excavations were completed in the vicinity of Two Mile Creek between January and October 2015, followed by submittal of a Supplemental IRM Work Plan to NYSDEC on November 19, 2015 (Ref. 4). The NYSDEC approved the Supplemental IRM Work Plan on February 23, 2016 and the remedial work was completed in March and April 2016. The Site was remediated to NYSDEC Part 375 Track 4 Commercial soil cleanup objectives (CSCOs) and site-specific action limits (SSALs) for use in a commercial redevelopment capacity. The Site Management Plan (SMP; Ref. 5) and Final Engineering Report (FER; Ref. 6) were approved by the Department in November 2, 2016 and December 16, 2016. The COC was recorded on December 20, 2016. Figure 2 is an aerial view of the Site following remediation. Remedial activities are described in the following sections.

### 2.1 2012/2013 Interim Remedial Measures (IRM)

During the RI and Supplemental RI, abandoned subsurface piping was observed in several test pits and test trenches across the Site. Certain pipes were tapped and sampled; piping contents consisted of water with traces of oil or heavier oil product. Waste characterization samples were collected from water, pipe scale, and oil within certain pipes.

In accordance with the NYSDEC-approved IRM Work Plan, IRM field activities were conducted October 29, 2012 through February 7, 2013. The IRM activities are fully described in the February 26, 2013 IRM Closeout Report (Ref. 7) and summarized below:

- Approximately 10,644 linear feet of piping ranging in diameter from 2" to 12" was removed and recycled as scrap (approximately 97 tons) at Gateway Materials in Cheektowaga, NY.
- A total of 51, 55-gallon drums containing oil, sludge, and scale from within the pipes were disposed at CWM Chemical Services in Model City, NY.
- Approximately 21,000 gallons of water from within the pipes and perched water encountered during trench excavation was treated with a bag filter and granular activated carbon then discharged to the Olean Publicly Owned Treatment Works (POTW) under a temporary discharge permit issued by the City of Olean Wastewater Treatment Plant.
- Piping that extended to a property boundary was drained to the extent practicable, cut, and capped at the property boundary.

## 2.2 2014/2015 Additional IRM

An Additional IRM Work Plan was submitted to the NYSDEC in July 2014 (Ref. 3) to excavate and dispose off-site the grossly contaminated soil (GCS) present within the areas described below. The following excavation work was conducted between September 29, 2014 and March 12, 2015:

- **GCS Area 1:** Excavation within the central portion of the Site measured approximately 3.79 acres with depths ranging from 5 to 14 feet below ground surface (fbgs). Approximately 45,775 tons of GCS were removed and disposed at the Chaffee Landfill. During the IRM piping removal in 2012/2013, GCS was identified near groundwater monitoring well MW-12. Excavation of the "MW-12 GCS Area" extended to the property boundary; a total of 270 tons of GCS were removed and disposed at the Chaffee Landfill. Therefore, approximately 46,045 tons of GCS was removed from these areas.
- **GCS Area 2:** Excavation in September/October 2014 proximate to monitoring well MW-8 measured approximately 11,600 square feet with depths ranging from 6 to 11 fbgs. A total of 3,263 tons of GCS was removed and disposed at the Chaffee Landfill. A small seam (6- to 12-inches thick) of GCS remained along the eastern border of Area 2 due to the proximity of the Two Mile Creek bank. On January 20, 2015, the extent of remaining GCS was further evaluated by excavating two test pits (TP-A & TP-C) between the eastern boundary of Area 2 and Two Mile Creek; no GCS was observed in those test pits. Therefore, the small seam of GCS previously left along the eastern border of Area 2 was removed in January and February 2015.

- **GCS Area 3:** During the IRM piping removal in 2012/2013, GCS was identified along the northeastern property boundary south of test pit TP-60. The excavation extended partially off-site and measured approximately 1,800 square feet with depths ranging from 4 to 5 fbs. A total of 361 tons of GCS was removed and disposed at the Chaffee Landfill.

The areas were backfilled with clean imported Beneficial Use Determination (BUD)-approved soil or soil meeting the requirements of 6NYCRR Part 375 USCOs over the demarcation layer. Approximately 250,000 gallons of water encountered during IRM excavation activities were treated on-site and discharged under a temporary discharge permit issued by the City of Olean Wastewater Treatment Plant. The on-site drainage ditch was converted to a closed 30-inch subsurface drainage pipe as discussed with NYSDEC.

### 2.3 Additional Test Pit Excavations

On January 20, 2015, two test pits west (TP-A and TP-C) and three test pits east (TP-B, TP-D, & TP-E) of Two Mile Creek were excavated and samples were collected for analytical testing to evaluate the potential for Site soil/fill to impact the creek. All results were below CSCOs and no GCS was observed in any of the test pits.

On March 27, 2015, at the request of the NYSDEC, one test pit (TP-RR01) was excavated near switch gear/signal boxes for the railroad tracks to determine if other electrical equipment (e.g., transformers) may have been historically located nearby. Arsenic was the only constituent detected at a concentration (22.1 mg/kg) slightly above its CSCO.

In October 2015, at the request of NYSDEC and with NYSDEC personnel present, nine additional test pits (TP-F through TP-N) were excavated along the lower approximate 350-foot segment of Two Mile Creek near the culvert under Interstate Route I-86 to evaluate whether impacted soil was present along the creek banks based on field observations and/or analytical data. Four near-surface soil samples were also collected from 0-1 fbs along the creek banks. As summarized on Table 14 of the RI/IRM/AA Report, the vast majority of soil results from test pits TP-A through TP-N and the near-surface samples were below Commercial and Protection of Ecological Resources (PER) SCOs, with minor exception of two PAHs and certain metals above their respective PER and/or CSCOs. Only two test pits (TP-F and TP-I) and one near-surface sample (SS-CA1) slightly exceeded the CSCOs. The only PAHs slightly above CSCOs were benzo(a)pyrene (1.9 mg/kg; CSCO=1.0 mg/kg) and dibenz(a,h)anthracene (0.62 mg/kg; CSCO=0.56 mg/kg). Arsenic (17 and 20 mg/kg) was the

only metal to exceed its CSCO (16 mg/kg). Field evidence of impact within the test pits completed in the lower (southern) approximate 200 feet of Two Mile Creek included sheen on water and/or strong petroleum-like odors.

## 2.4 2016 Supplemental IRM – Two Mile Creek (Area 5)

Upon completion of the additional test pits and sampling adjacent to Two Mile Creek, TurnKey and Homer Street Properties representatives met with NYSDEC on November 5, 2015 to discuss the results and a proposed remedy to address apparent petroleum impacts near Two Mile Creek.

### 2.4.1 On-Site Work

A Supplemental IRM Work Plan was submitted to NYSDEC on November 19, 2015 to supplement previously completed IRMs and immediately address known environmental impacts adjacent to the lower approximate 200-foot segment of Two Mile Creek. Based on comments received from NYSDEC, TurnKey revised and resubmitted the Work Plan on February 4, 2016; NYSDEC approved the Work Plan on February 23, 2016.

As part of the Work Plan, a Joint Application Form was submitted for the United States Army Corps of Engineers (USACE) Nationwide Permit 38 and NYSDEC 401 Water Quality Certification. In a letter dated December 8, 2015, NYSDEC indicated that no Department permit was identified for the proposed remedial work and affirmed that the Department grants the Section 401 Water Quality Certification to Homer Street Properties. On March 16, 2016, Homer Street Properties, LLC received the Nationwide Permit 38 from USACE. The following remedial work was conducted on-site March 30 to April 20, 2016:

- Earthen dams supported by metal plates were constructed upstream and downstream of the work area. Two trash pumps (6" and 8") were used to convey water upstream of the dam around the excavation area for discharge downstream of the second dam.
- Approximately 3,099 tons of material were excavated from the Creek bed and banks and disposed at the Waste Management Chaffee Landfill. Excavation proceeded to native clay, with an average depth of 6.5 fbs.
- Filter fabric was placed on the excavated face and serves as demarcation material.
- A total of 593 tons of gravel aggregate (3"-4") was placed in a 12-inch layer along the Creek bed and up each bank to the ordinary high-water mark (OHWM).

- Approximately 279 tons of clean soil; 1,764 tons of clay soil; and 228 tons of topsoil were used to backfill the Creek bed and banks. A minimum 1-foot thick layer of the clay soil was placed along the outer extent of the Creek area IRM excavation adjacent to the native soil to prevent migration of residual impacts toward the Creek.
- The soil/topsoil bank area was hydroseeded with a “low grow” seed mix.
- A biodegradable straw erosion control blanket manufactured by Tensar International Corporation (BioNet S150BN) was placed, anchored, and staked.

Between April 27 and 28, 2016, a mixture of riparian shrubs (e.g., buttonbush, hybrid poplar, willow, red oak, and white spruce) were planted through the erosion control blanket on 3-foot centers.

#### ***2.4.2 Off-Site Work***

On March 29, 2016, TurnKey received approval from ExxonMobil to remediate and restore the off-site portion of Two Mile Creek located in the Department of Transportation (DOT) right-of-way. On behalf of Homer Street Properties, TurnKey prepared the DOT Highway Work Permit Application for Non-Utility Work (PERM 33) and submitted the application package on March 31, 2016 to the DOT Cattaraugus County Residency. The DOT permit was received on April 13, 2016 and expired October 31, 2016.

The following off-site remedial work was performed in accordance with the NYSDEC-approved Supplemental IRM Work Plan:

- Approximately 973 tons of material was excavated from the creek bed and banks and disposed at the Chaffee Landfill. Excavation proceeded to native clay, with an average depth of 6.5 fbs.
- Filter fabric was placed on the excavated face and serves as demarcation material.
- A total of 197 tons of gravel aggregate (3”-4”) was placed in a 12-inch layer along the creek bed and up each bank to the ordinary high water mark (OHWM).
- Approximately 588 tons of clay soil and 76 tons of topsoil was used to backfill the creek bed and banks. A minimum one-foot thick layer of the clay soil was placed along the outer extent of the creek area IRM excavation adjacent to the native soil to prevent migration of residual impacts toward the creek.
- The soil/topsoil bank area was hydroseeded with a “low grow” seed mix.

- A biodegradable straw erosion control blanket manufactured by Tensar International Corporation (BioNet S150BN) was placed, anchored, and staked.

Between April 27 and 28, 2016, a mixture of riparian shrubs (e.g., buttonbush, hybrid poplar, willow, red oak, and white spruce) were planted through the erosion control blanket on 3-foot centers.

## 2.5 Site Redevelopment Activities

The Site remained undeveloped until August 2018 when construction of the on-site solar electric generation facility began. Construction continued through the end of the reporting period. The work was conducted in accordance with the July 18, 2018 Homeridae Solar Facility Development Plan (Ref. 8). The City of Olean issued a building permit for installation of the 4.093 MW ground mounted solar photovoltaic (PV) system on June 25, 2018. NYSDEC issued an Acknowledgement of Notice of Intent under SPDES (NYR11D898) on July 5, 2018. NYS Department of State issued a Certificate of Conformance for the Brownfield Opportunity Area (BOA) on August 27, 2018. The project involved redevelopment of approximately 15.29 acres of the total 16.68 acres. The solar facility includes 11,808 solar modules and associated infrastructure for in-feed to the nearby National Grid commercial electrical systems (grid).

In accordance with the July 2018 Homeridae Solar Facility Development Plan, a soil cover survey was completed in October 2018 to compare subgrade elevations made prior to cover placement. Based on that survey, the area between the billboard and the equipment pad required additional cover soil (see Figure 2).

### 2.5.1 Current Status

The solar facility became operational the week of May 13, 2019. On August 20, 2019, the Department approved a request to import soil from Peck's Construction Yard in Allegany, NY for the cover system restoration. Benchmark placed the soil in the fall 2019. On April 17, 2020, Benchmark measured the cover soil thickness to verify a minimum of 12 inches; however, several areas did not meet the 12-inch requirement. Therefore, additional soil was placed April 30 and May 1, 2020. On May 4, 2020, Benchmark confirmed a 12-inch thickness in all areas as shown on Figure 5.

### 3.0 SITE MANAGEMENT PLAN

The SMP was approved by the Department on November 2, 2016. The SMP includes an IC/EC Plan, a Monitoring and Sampling Plan and an Operation & Maintenance (O&M) Plan, an Excavation Work Plan (EWP), and a copy of the Environmental Easement. A brief description of the components of the SMP is presented below.

#### 3.1 IC/EC Plan

As detailed in the Environmental Easement, several IC/ECs need to be maintained as a requirement of the BCA.

##### *3.1.1 Institutional Controls*

- Groundwater-Use Restriction: The use of groundwater for potable and non-potable purposes is prohibited.
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use.
- Implementation of the SMP: The O&M Plan and EWP must be followed.

##### *3.1.2 Engineering Controls*

- Vapor Mitigation: There are no buildings on-site and, as such, no sub-slab depressurization system exists.
- Groundwater Monitoring: Groundwater monitoring was completed in June and December 2019.
- Cover System: The cover system was disturbed during installation of the solar panels and infrastructure and requires repair/restoration. The EWP, included as Appendix B to the SMP, provides guidelines for the management of soil and fill material during intrusive activities. The EWP was followed during installation of the solar facility infrastructure.

##### *3.1.3 Site Inspection & IC/EC Compliance*

On March 11, 2020, Benchmark's Certifying Professional Engineer performed a Site visit and assessment. During this visit, the Site covered by this PRR was found to be compliant with the IC/EC requirements except for required cover system repair discussed in Section 2.5.1. Appendix A includes the completed and P.E.-certified IC/EC Form for the Site.

## 3.2 Monitoring and Sampling Plan

The Monitoring and Sampling Plan specifies the methods used for:

- Sampling and analysis of groundwater
- Site-wide inspection
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment

### 3.2.1 Groundwater Sampling and Analysis

Groundwater sampling was conducted June 27 and December 13, 2019 at wells MW-1, MW-6R, MW-7, MW-8R, MW-10, MW-12R and MW-14. The samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) and tentatively identified compounds (TICs) using USEPA Method 8260; semi-VOCs and TICs via USEPA Method 8270; and arsenic and lead using USEPA Method 6010. Appendix C includes field notes and analytical data packages for this sampling event. Table 1 summarizes current and historic groundwater elevations. Table 2 summarizes the analytical results as well as historic groundwater quality data. The wells noted with an “R” are replacement wells as the original well was removed during remediation. For the replacement wells, trends in groundwater quality predating the replacement well installation are not considered reliable even though the wells are close to the original well location. As such, the only wells where trends in groundwater quality are discussed are MW-1, MW-7, MW-10 and MW-14.

#### 3.2.1.1 Groundwater Elevations

Figures 3 (June 2019) and 4 (December 2019) are isopotential maps prepared using the groundwater elevations from Table 1. Overall groundwater flow direction in the uppermost sand and gravel aquifer is toward the southeast, consistent with the prior groundwater contour maps. This indicates that wells MW-8R and MW-14 are upgradient wells, and wells MW-7, MW-6R, MW-12R, MW-10, and MW-1 are downgradient wells.

#### 3.2.1.2 Field Observations

As indicated on the field forms in Appendix C, a thin layer of product was observed on the water in well MW-6R during the June and December 2019 sampling events. In both cases, Benchmark’s sampler used a bailer to extract groundwater and the product was on the outside of the bailer. The sampler used an absorbent pad to remove the product from the

bailer before extracting more groundwater. Eventually, no more product was visible on the bailer. An absorbent sock was placed in the well for a few hours, and the well was sampled once all oil had been removed.

### ***3.2.1.3 Analytical Data***

#### **VOCs**

The June and December 2019 groundwater concentrations indicate only one exceedance of the NYSDEC Class GA groundwater quality standards/guidance values (GWQS/GVs), which occurred at well MW-12R. The concentration of 1,2,4-trimethylbenzene (7.9 ug/L) slightly exceeded the GWQS of 5 ug/L during the June 2019 sampling event but was non-detect in December 2019. VOC TIC concentrations decreased in wells MW-1, MW-6R, MW-7, and MW-12, while well MW-8R showed an increase in the June 2019 result followed by a non-detect result in December 2019.

#### **SVOCs**

The June and December 2019 groundwater concentrations indicate all SVOCs were either not detected or detected below the NYSDEC Class GA GWQS/GVs. SVOC TIC concentrations increased in all wells from the June 2019 to December 2019 sampling events.

#### **Metals**

The concentration of lead in well MW-7 (41 ug/L) exceeded its GWQS 25 ug/L) in June 2019 but was not detected in December 2019. There were no other exceedances of GWQS/GVs for lead during the June or December 2019 sampling events. Arsenic concentrations above the GWQS (25 ug/L) ranged between 27 and 67 ug/L during the June and December 2019 sampling events at wells MW-1, MW-6R, MW-7, MW-12R and MW-14. However, these concentrations decreased when compared to the June 2018 data at all wells except MW-1.

### ***3.2.2 Site-Wide Inspection - Cover System Monitoring***

The existing cover system is comprised of a minimum of 12 inches of clean soil (vegetated to prevent erosion) and 12 inches of gravel/stone for the access roads. A demarcation layer, consisting of orange plastic mesh material, provides a visual reference to

the top of the remaining contamination zone, which is the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP.

In accordance with the SMP, the cover system must be maintained and replaced in the event it is breached as described in the EWP (SMP Appendix B). The cover will be inspected on an annual basis and following severe storm events. If frequent areas of distress are noted, they will be repaired based on the following conditions.

If the type of cover system changes from that which exists (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent PRR. The key maintenance concerns and corrective actions are provided below:

- Vegetative Soil Cover Monitoring
  - *Areas where erosion problems (i.e., rills or gullies) are observed will be repaired by re-grading the localized area, adding the required fill material and/or topsoil, and reseeding/replanting.*
  - *If burrowing animals are observed breaching the soil cover, as evidenced by exposed fill material, they will be eradicated by a licensed exterminator.*
- Gravel/Stone Cover Monitoring
  - *Ruts or erosion along the access roads will be repaired by re-grading the localized area and adding additional material.*

At the time of the Site inspection several areas showed the grass cover between solar panel rows was underwater. As discussed in Section 2.5.1, cover system repairs were completed. Re-seeding activities are planned when weather permits and will be performed in accordance with the 2018 Homeridae Solar Facility Development Plan. The gravel/stone access roads are in good condition. Appendix B includes a photographic log showing the constructed solar facility, vegetated soil cover system, and general Site conditions at the time of the inspection.

### 3.3 O&M Plan

The Site remedy does not rely on any mechanical systems (e.g., sub-slab depressurization systems, groundwater pump and treat, or soil vapor extraction systems) to

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

### **4.1 Conclusions**

Based on our observation during the March 11 and May 4, 2020 inspections, the Site covered by this PRR was fully compliant with the IC/EC requirements except for establishment of grass in the cover system restoration area.

Long-term groundwater monitoring indicates improvement to the groundwater quality for VOCs, SVOCs, and arsenic and lead; however, a small amount of product was present in downgradient well MW-6R during both sampling events. The next groundwater monitoring is planned for June 2020.

### **4.2 Recommendations**

The SMP states that semi-annual sampling will be conducted for a minimum of two years with the frequency thereafter to be determined. Five sampling events have been conducted since June 2017 and based on the results of the 2019 groundwater sampling, we respectfully request that the frequency of sampling be decreased to annually, with sampling events occurring each June. Benchmark will begin checking for the presence of product in well MW-6R monthly. During the summer 2020, Benchmark will confirm establishment of grass in the cover system restoration area.

## 5.0 DECLARATION/LIMITATION

Benchmark Environmental Engineering & Science, PLLC, personnel conducted the annual site inspection for Brownfield Cleanup Program Site No. C905037, Olean, New York, according to generally accepted practices. This report complied with the scope of work provided to Homer Street Properties, LLC by Benchmark Environmental Engineering & Science, PLLC.

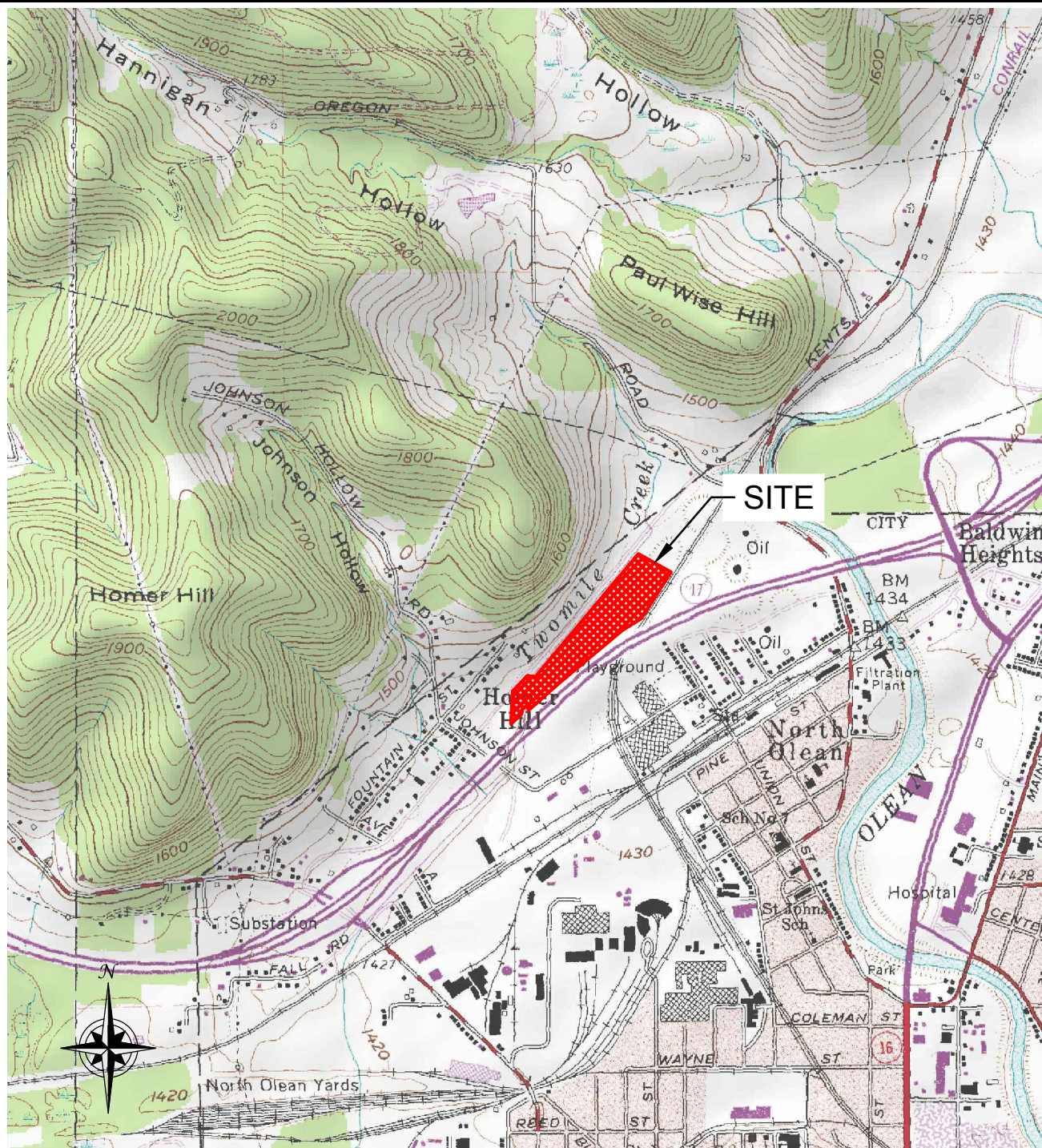
This report has been prepared for the exclusive use of Homer Street Properties, LLC. The contents of this report are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of Homer Street Properties, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

## 6.0 REFERENCES

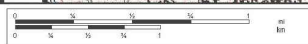
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## FIGURES

**FIGURE 1**



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2558 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0599

PROJECT NO.: 0362-019-001

DATE: MAY 2019

DRAFTED BY: CCB

## SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

251 HOMER STREET REDEVELOPMENT SITE

BCP SITE NO. C905037

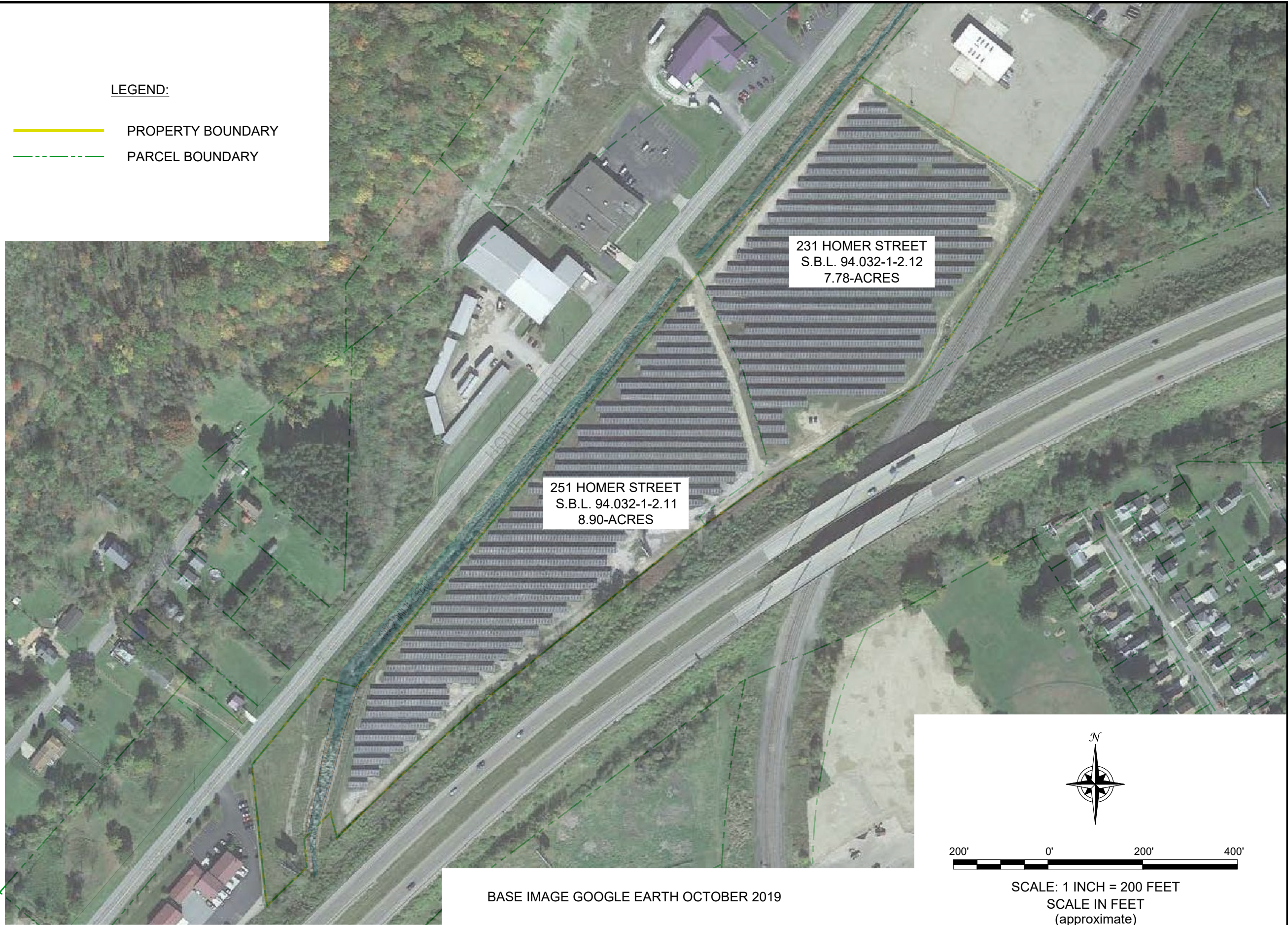
OLEAN, NEW YORK

PREPARED FOR

OLEAN SOLAR LAND LLC AND HOMERIDAE LLC

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**SITE PLAN (POST REMEDIATION)**

PERIODIC REVIEW REPORT  
251 HOMER STREET REDEVELOPMENT SITE  
OLEAN, NEW YORK  
PREPARED FOR  
OLEAN SOLAR LAND LLC AND HOMERIDAE LLC

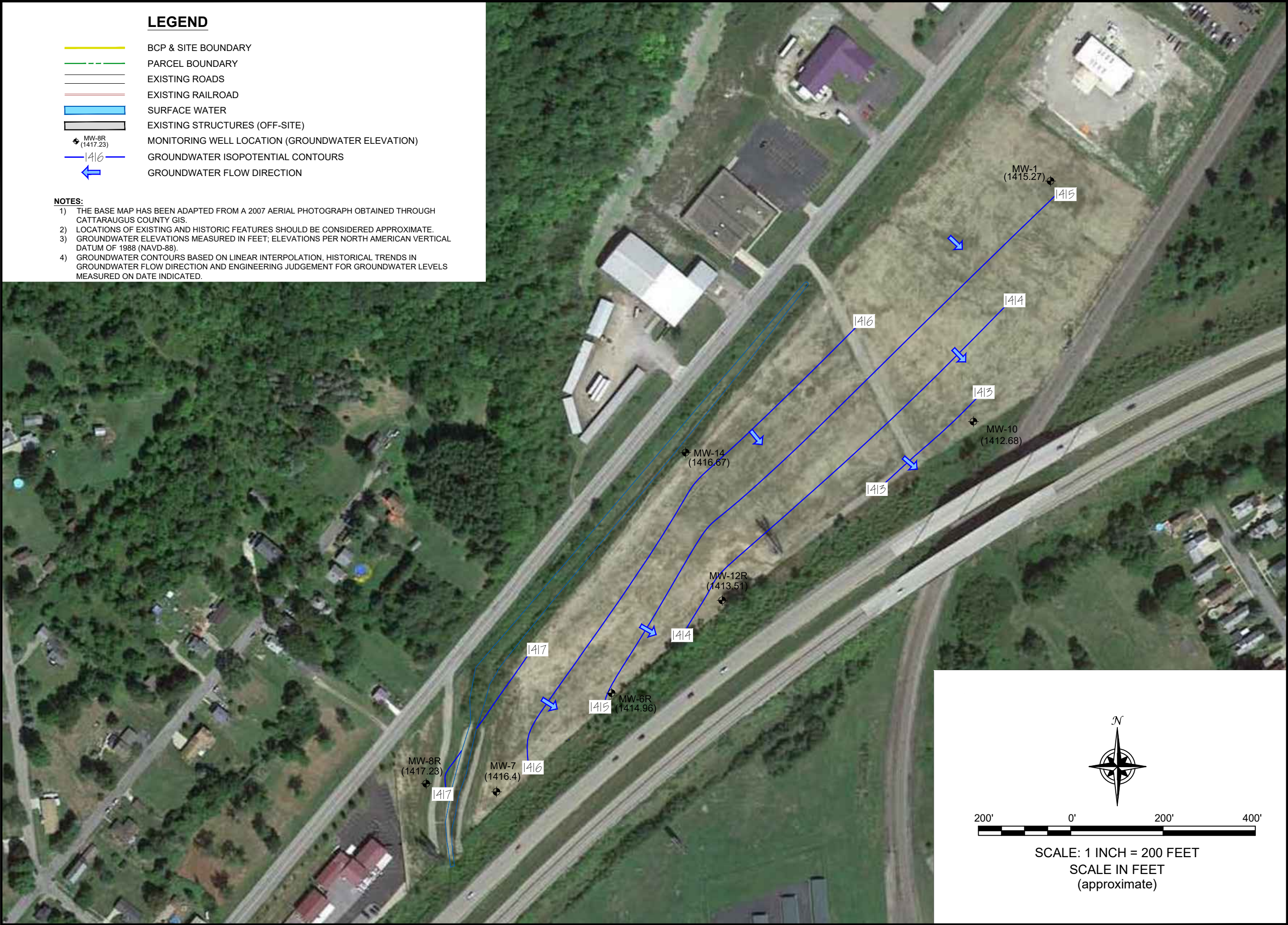
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**FIGURE 2**

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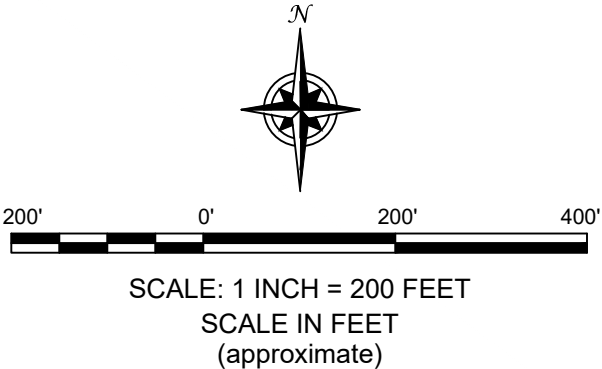
DATE: MARCH 2020  
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LEGEND

- BCP & SITE BOUNDARY
- PARCEL BOUNDARY
- EXISTING ROADS
- EXISTING RAILROAD
- SURFACE WATER
- EXISTING STRUCTURES (OFF-SITE)
- MONITORING WELL LOCATION (GROUNDWATER ELEVATION)
- GROUNDWATER ISOPOTENTIAL CONTOURS
- GROUNDWATER FLOW DIRECTION

- NOTES:
- THE BASE MAP HAS BEEN ADAPTED FROM A 2007 AERIAL PHOTOGRAPH OBTAINED THROUGH CATTARAUGUS COUNTY GIS.
  - LOCATIONS OF EXISTING AND HISTORIC FEATURES SHOULD BE CONSIDERED APPROXIMATE.
  - GROUNDWATER ELEVATIONS MEASURED IN FEET; ELEVATIONS PER NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
  - GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION, HISTORICAL TRENDS IN GROUNDWATER FLOW DIRECTION AND ENGINEERING JUDGEMENT FOR GROUNDWATER LEVELS MEASURED ON DATE INDICATED.



GROUNDWATER ISOPOTENTIAL MAP (JUNE 2019)

PERIODIC REVIEW REPORT  
251 HOMER STREET REDEVELOPMENT SITE  
BCP SITE NO. C905037  
OLEAN, NEW YORK  
PREPARED FOR  
OLEAN SOLAR LAND LLC AND HOMERIDAE LLC

FIGURE 3

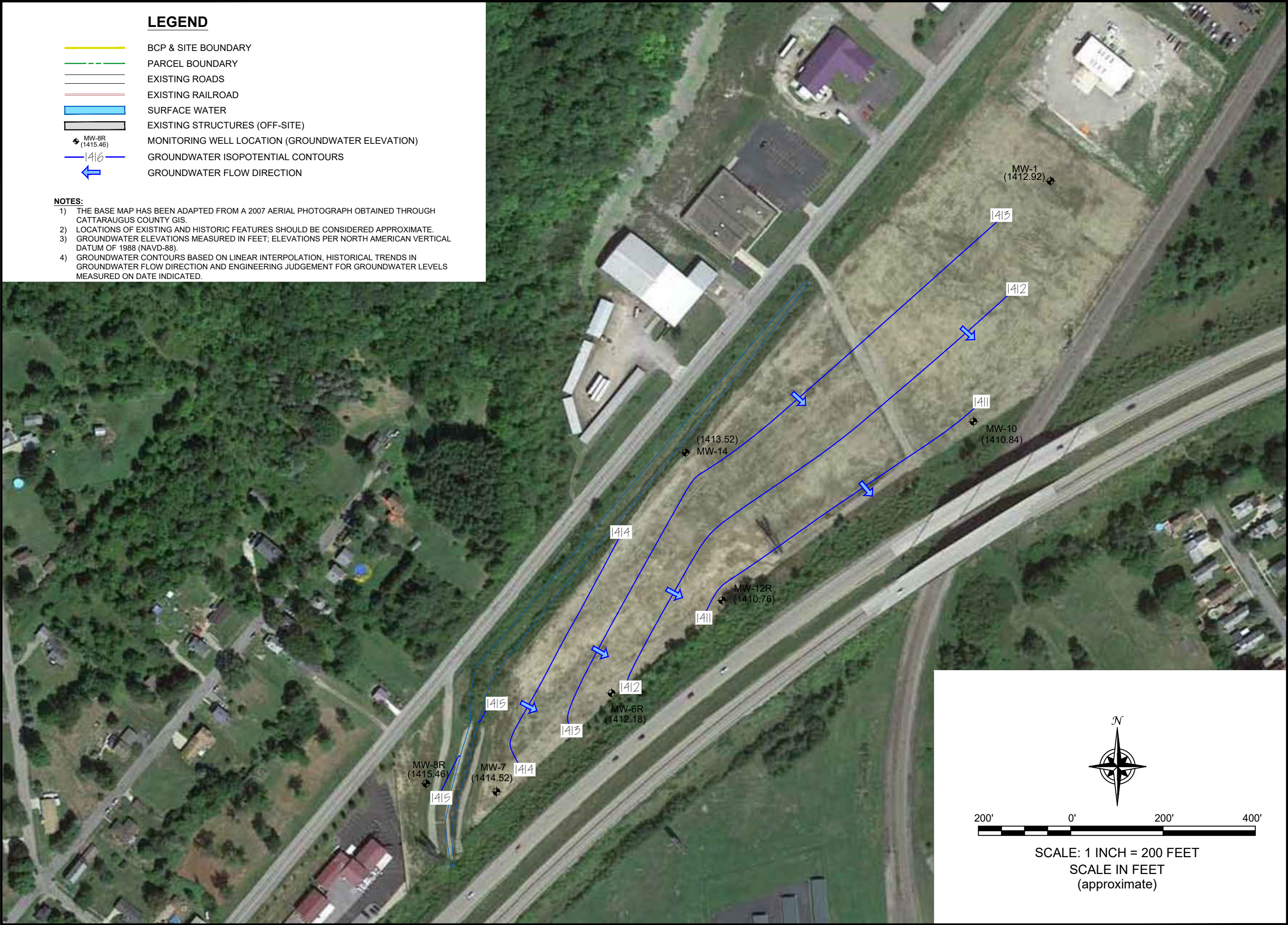
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DATE: MARCH 2020  
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**LEGEND**

- BCP & SITE BOUNDARY
- PARCEL BOUNDARY
- EXISTING ROADS
- EXISTING RAILROAD
- SURFACE WATER
- EXISTING STRUCTURES (OFF-SITE)
- MONITORING WELL LOCATION (GROUNDWATER ELEVATION)
- GROUNDWATER ISOPOTENTIAL CONTOURS
- GROUNDWATER FLOW DIRECTION

- NOTES:**
- 1) THE BASE MAP HAS BEEN ADAPTED FROM A 2007 AERIAL PHOTOGRAPH OBTAINED THROUGH CATTARAUGUS COUNTY GIS.
  - 2) LOCATIONS OF EXISTING AND HISTORIC FEATURES SHOULD BE CONSIDERED APPROXIMATE.
  - 3) GROUNDWATER ELEVATIONS MEASURED IN FEET; ELEVATIONS PER NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
  - 4) GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION, HISTORICAL TRENDS IN GROUNDWATER FLOW DIRECTION AND ENGINEERING JUDGEMENT FOR GROUNDWATER LEVELS MEASURED ON DATE INDICATED.

GROUNDWATER ISOPOTENTIAL MAP (DECEMBER 2019)

PERIODIC REVIEW REPORT  
251 HOMER STREET REDEVELOPMENT SITE  
BCP SITE NO. C905037  
OLEAN, NEW YORK  
PREPARED FOR  
OLEAN SOLAR LAND LLC AND HOMERIDAE LLC

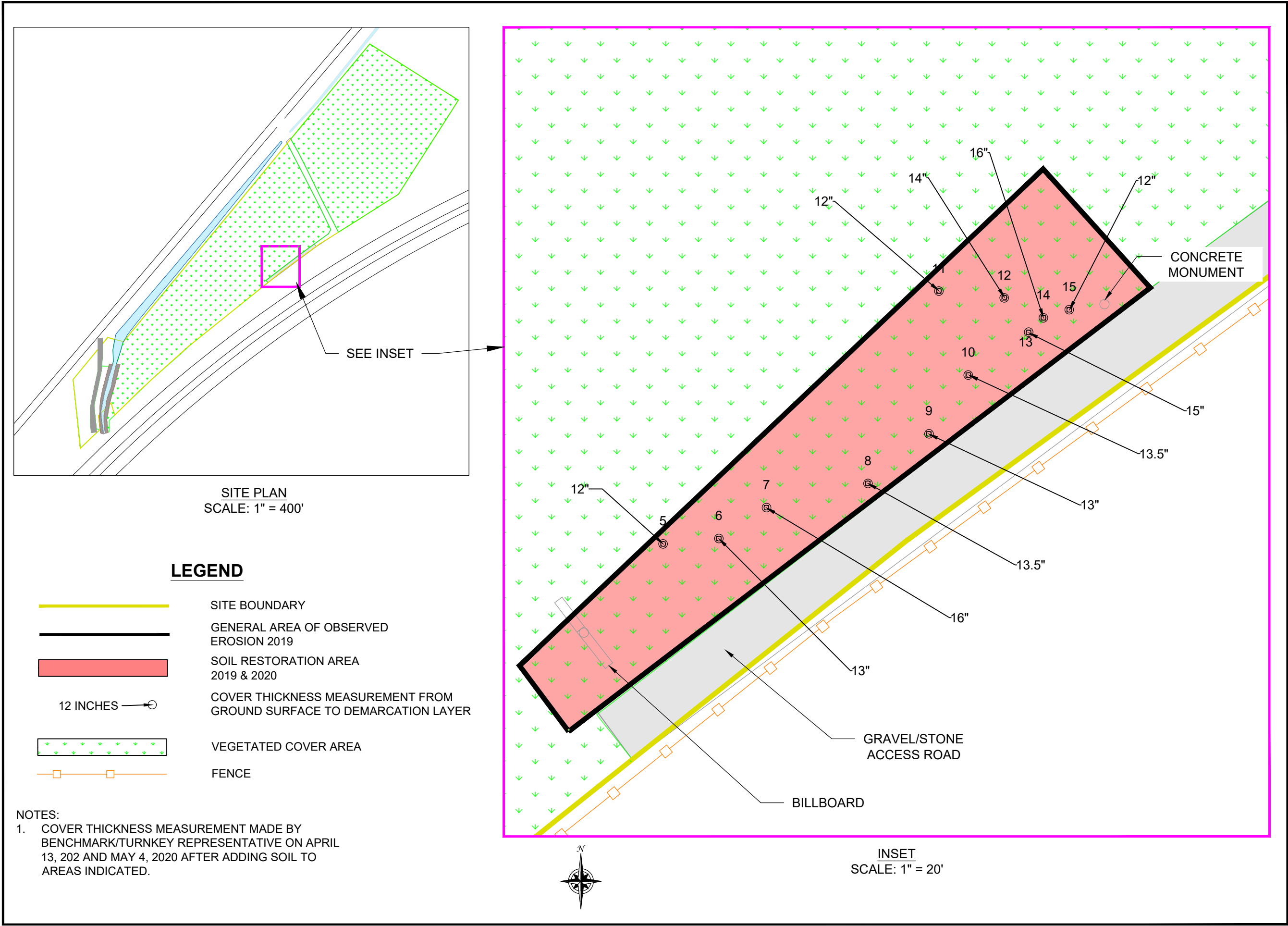
FIGURE 4

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**COVER SYSTEM REPAIRS**  
**251 HOMER STREET SITE**  
**OLEAN, NEW YORK**  
PREPARED FOR  
**HOMERIDAE, LLC**

**FIGURE 5**

**JOB NO.: JOB##**

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## TABLES

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
**251 HOMER STREET REDEVELOPMENT SITE**  
**OLEAN, NEW YORK**

| Location | Date                    | TOR<br>Elevation <sup>1</sup><br>(ft) | DTW<br>(fbTOR) | Groundwater<br>Elevation<br>(ft) |
|----------|-------------------------|---------------------------------------|----------------|----------------------------------|
| MW-1     | 6/27/2011               | 1426.78                               | 12.11          | 1414.67                          |
|          | 5/22/2012               |                                       | 13.48          | 1413.30                          |
|          | 2/27/2013               |                                       | 12.37          | 1414.41                          |
|          | 5/16/2016               |                                       | 12.75          | 1414.03                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 12.82          | 1413.96                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 14.48          | 1412.30                          |
|          | 6/12/2018               |                                       | 12.85          | 1413.93                          |
|          | 6/27/2019               |                                       | 11.51          | 1415.27                          |
|          | 12/12/2019              |                                       | 13.86          | 1412.92                          |
| MW-6R    | 5/16/2016               | 1427.14                               | 12.67          | 1414.47                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 13.25          | 1413.89                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 14.01          | 1413.13                          |
|          | 6/12/2018               |                                       | 12.25          | 1414.89                          |
|          | 6/27/2019               |                                       | 12.18          | 1414.96                          |
|          | 12/12/2019              |                                       | 14.96          | 1412.18                          |
| MW-7     | 6/27/2011               | 1424.42                               | 7.99           | 1416.43                          |
|          | 5/21/2012               |                                       | 9.65           | 1414.77                          |
|          | 2/27/2013               |                                       | 8.25           | 1416.17                          |
|          | 5/16/2016               |                                       | 8.55           | 1415.87                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 8.92           | 1415.50                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 9.81           | 1414.61                          |
|          | 6/13/2018               |                                       | 9.12           | 1415.30                          |
|          | 6/27/2019               |                                       | 8.02           | 1416.40                          |
|          | 12/12/2019              |                                       | 9.90           | 1414.52                          |
| MW-8R    | 5/16/2016               | 1426.74                               | 9.97           | 1416.77                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 10.25          | 1416.49                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 11.21          | 1415.53                          |
|          | 6/13/2018               |                                       | 10.30          | 1416.44                          |
|          | 6/27/2019               |                                       | 9.51           | 1417.23                          |
|          | 12/12/2019              |                                       | 11.28          | 1415.46                          |
| MW-10    | 5/22/2012               | 1425.88                               | 13.23          | 1412.65                          |
|          | 2/27/2013               |                                       | 11.69          | 1414.19                          |
|          | 5/16/2016               |                                       | 14.19          | 1411.69                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 14.38          | 1411.50                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 15.11          | 1410.77                          |
|          | 6/12/2018               |                                       | 14.53          | 1411.35                          |
|          | 6/27/2019               |                                       | 13.2           | 1412.68                          |
|          | 12/12/2019              |                                       | 15.04          | 1410.84                          |
| MW-12R   | 5/16/2016               | 1427.76                               | 14.84          | 1412.92                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 15.36          | 1412.40                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 16.24          | 1411.52                          |
|          | 6/12/2018               |                                       | 15.05          | 1412.71                          |
|          | 6/27/2019               |                                       | 14.25          | 1413.51                          |
|          | 12/12/2019              |                                       | 17.00          | 1410.76                          |
| MW-14    | 5/21/2012               | 1427.50                               | 14.05          | 1413.45                          |
|          | 2/27/2013               |                                       | 12.48          | 1415.02                          |
|          | 5/16/2016               |                                       | 12.17          | 1415.33                          |
|          | 6/21/2017 & 6/22/2017   |                                       | 12.37          | 1415.13                          |
|          | 12/14/2017 & 12/15/2017 |                                       | 14.07          | 1413.43                          |
|          | 6/12/2018               |                                       | 12.90          | 1414.60                          |
|          | 6/27/2019               |                                       | 10.83          | 1416.67                          |
|          | 12/12/2019              |                                       | 13.98          | 1413.52                          |

**Notes:**

1. Wells were surveyed 5/19/16 using the North American Vertical Datum of 1988 (NAVD-88).

**Acronyms:**

fbTOR = Feet below top of riser

DTW = Depth to water

TABLE 2  
SUMMARY OF GROUNDWATER ANALYTICAL DATA  
251 HOMER STREET REDEVELOPMENT SITE  
OLEAN, NEW YORK

| Parameter <sup>1</sup>                             | NYSDEC Class<br>GA GWQS <sup>2</sup> | Well ID and Sample Date |         |         |          |         |          |          |        |         |         |          |         |         |          |        |         |         |          |         |         |          |        |         |    |
|----------------------------------------------------|--------------------------------------|-------------------------|---------|---------|----------|---------|----------|----------|--------|---------|---------|----------|---------|---------|----------|--------|---------|---------|----------|---------|---------|----------|--------|---------|----|
|                                                    |                                      | MW-1                    |         |         |          |         |          |          | MW-6   |         | MW-6R   |          |         |         |          | MW-7   |         |         |          |         |         |          | MW-8   |         |    |
|                                                    |                                      | 6/6/11                  | 5/22/12 | 6/22/17 | 12/14/17 | 6/12/18 | 6/27/19  | 12/13/19 | 6/7/11 | 5/21/12 | 6/22/17 | 12/14/17 | 6/12/18 | 6/27/19 | 12/13/19 | 6/7/11 | 5/21/12 | 6/22/17 | 12/14/17 | 6/13/18 | 6/27/19 | 12/13/19 | 6/6/11 | 5/22/12 |    |
| TCL Volatile Organic Compounds (VOCs) - ug/L       |                                      |                         |         |         |          |         |          |          |        |         |         |          |         |         |          |        |         |         |          |         |         |          |        |         |    |
| 1,2,4-Trimethylbenzene                             | 5                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Acetone                                            | 50                                   | ND                      | ND      | 4.7     | 10       | ND      | 7 J      | ND       | ND     | ND      | ND      | 5.1      | ND      | 4.4 J   | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Benzene                                            | 1                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Cyclohexane                                        | --                                   | 98                      | 18      | 27      | 24       | 19      | 22       | 2.3      | ND     | ND      | 15      | 12       | 6.8     | 18      | 4.8 J    | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Isopropylbenzene                                   | 5                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Methylcyclohexane                                  | --                                   | 150                     | 25      | 42      | 31       | 21.7    | 32       | 2.4      | ND     | ND      | 8.3     | 11       | ND      | 13      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| n-Butylbenzene                                     | 5                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| sec-Butylbenzene                                   | 5                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| tert-Butylbenzene                                  | 100                                  | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | 1.6     | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Xylenes (Total)                                    | 5                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Total VOCs                                         | --                                   | 248                     | 43      | 74      | 65       | 41      | 61       | 5        | 0      | 0       | 23      | 28       | 7       | 37      | 5        | 0      | 0       | 0       | 0        | 0       | 0       | 0        | 0      | 0       | 0  |
| TICs <sup>3</sup>                                  | --                                   | ND                      | 42      | 37      | 39       | 64      | 66       | ND       | ND     | 57      | 45      | 63       | 141     | 83      | ND       | ND     | ND      | 7.6     | ND       | ND      | 2.5     | ND       | ND     | ND      | ND |
| TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L |                                      |                         |         |         |          |         |          |          |        |         |         |          |         |         |          |        |         |         |          |         |         |          |        |         |    |
| 2-Methylnaphthalene                                | --                                   | ND                      | 0.59    | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.26    | 0.09     | ND      | ND      | ND       | ND     | ND      | ND |
| 2,4-Dimethylphenol                                 | 50                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Acenaphthene                                       | 20                                   | ND                      | ND      | 0.11    | 0.08     | ND      | ND       | ND       | ND     | ND      | 0.14    | 0.24     | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | 0.37    | ND |
| Acenaphthylene                                     | --                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Acetophenone                                       | --                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Anthracene                                         | 50                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Benzo(a)anthracene                                 | 0.002                                | ND                      | ND      | ND      | 0.02     | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.07    | 0.03     | ND      | ND      | ND       | ND     | ND      | ND |
| Benzo(a)pyrene                                     | ND                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.08    | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Benzo(b)fluoranthene                               | 0.002                                | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | 0.02     | ND      | ND      | ND       | ND     | ND      | ND |
| Benzo(g,h,i)perylene                               | --                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.16    | 0.05     | ND      | ND      | ND       | ND     | ND      | ND |
| Biphenyl                                           | 5                                    | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Bis(2-ethylhexyl) phthalate                        | --                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | 2.5    | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Butyl benzyl phthalate                             | 50                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Carbazole                                          | --                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Chrysene                                           | 0.002                                | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.09    | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Dibenz(a,h)anthracene                              | --                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.05    | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Diethyl phthalate                                  | 50                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Di-n-butyl phthalate                               | 50                                   | 0.30                    | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | 0.34    | ND |
| Indeno(1,2,3-cd)pyrene                             | 0.002                                | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.05    | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Naphthalene                                        | 10                                   | ND                      | ND      | 0.05    | ND       | ND      | ND       | ND       | ND     | ND      | 0.15    | ND       | ND      | ND      | ND       | ND     | ND      | 0.12    | 0.08     | ND      | ND      | ND       | ND     | ND      | ND |
| Fluoranthene                                       | 50                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.04    | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Fluorene                                           | 50                                   | ND                      | ND      | 0.10    | 0.06     | ND      | ND       | ND       | ND     | ND      | 0.19    | 0.10     | ND      | ND      | ND       | 0.37   | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | ND |
| Phenanthrene                                       | 50                                   | ND                      | ND      | 0.04    | 0.03     | ND      | 0.94 JBT | ND       | ND     | ND      | ND      | 0.17     | ND      | 3.7 BJ  | ND       | ND     | ND      | 0.37    | 0.15     | ND      | 0.81 BJ | ND       | ND     | ND      | ND |
| Pyrene                                             | 50                                   | ND                      | ND      | ND      | ND       | ND      | ND       | ND       | ND     | ND      | ND      | ND       | ND      | ND      | ND       | ND     | ND      | 0.22    | 0.09     | ND      | ND      | ND       | ND     | ND      | ND |
| Total SVOCs                                        | --                                   | 0                       | 1       | 0       | 0        | 0       | 1        | 0        | 3      | 0       | 0       | 1        | 0       | 4       | 0        | 0      | 0       | 2       | 1        | 0       | 1       | 0        | 1      | 0       | 0  |
| TICs <sup>3</sup>                                  | --                                   | ND                      | 102     | 1380    | 26.7     | ND      | 183      | 337      | ND     | ND      | 2090    | 815      | 21.5    | 1030    | 1810     | ND     | 15.8    | ND      | 5.8      | 20.2    | 161     | 314      | ND     | 28.9    |    |
| TAL Metals - ug/L (Total)                          |                                      |                         |         |         |          |         |          |          |        |         |         |          |         |         |          |        |         |         |          |         |         |          |        |         |    |
| Arsenic                                            | 25                                   | 38                      | NA      | 61.7    | 49       | 34.9    | 48       | 49       | 19     | NA      | 42.6    | 34.9     | 35.5    | 42      | 35       | ND     | NA      | 1.8     | 1.3      | ND      | 67      | ND       | ND     | NA      |    |
| Lead                                               | 25                                   | 15                      | NA      | 0.37    | ND       | 7.6     | 5 J      | ND       | 22     | NA      | 2.4     | 2.7      | 24.6    | 12      | ND       | ND     | NA      | 12.8    | 4.7      | 25.4    | 41 J    | ND       | ND     | NA      |    |
| Field Paramters                                    |                                      |                         |         |         |          |         |          |          |        |         |         |          |         |         |          |        |         |         |          |         |         |          |        |         |    |
| Turbidity (NTU)                                    | --                                   | >1,000                  | 220     | 21.3    | 34.7     | 46.9    | 4.7      | 12       | 555    | >1,000  | 19.3    | 13       | 310     | 29.9    | 30       | 35.2   | 57.5    | 26.1    | 35.3     | 13.6    | 81.9    | 16.3     | 28     | 20.4    |    |

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).
- Tentatively identified compounds

Definitions:

ND = Parameter not detected above laboratory detection limit.  
"--" = No GWQS available.  
J = Estimated value; result is less than the sample quantitation limit but greater than zero.  
N = presumptive evidence of material.  
T = Result is a tentatively identified compound (TIC) and an estimated value.  
B = Compound was found in the blank and sample

|  |                                               |
|--|-----------------------------------------------|
|  | Sample result exceeds NYSDEC Class GA GWQS/GV |
|  | Dates of samples collected pre-remediation    |

TABLE 2  
SUMMARY OF GROUNDWATER ANALYTICAL DATA  
251 HOMER STREET REDEVELOPMENT SITE  
OLEAN, NEW YORK

| Parameter <sup>1</sup>                       | NYSDEC Class<br>GA GWQS <sup>2</sup> | Well ID and Sample Date |          |         |         |          |          |         |          |         |         |          |         |         |          |         |         |          |         |         |          |         |         |          |      |  |
|----------------------------------------------|--------------------------------------|-------------------------|----------|---------|---------|----------|----------|---------|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|------|--|
|                                              |                                      | MW-8R                   |          |         |         |          | MW-9     | MW-10   |          |         |         |          | MW-12   | MW-12R  |          |         |         |          | MW-14   |         |          |         |         |          |      |  |
|                                              |                                      | 6/22/17                 | 12/14/17 | 6/13/18 | 6/27/19 | 12/13/19 | 5/22/12  | 6/22/17 | 12/14/17 | 6/12/18 | 6/27/19 | 12/13/19 | 5/21/12 | 6/22/17 | 12/14/17 | 6/12/18 | 6/27/19 | 12/13/19 | 5/21/12 | 6/22/17 | 12/14/17 | 6/12/18 | 6/27/19 | 12/13/19 |      |  |
| TCL Volatile Organic Compounds (VOCs) - ug/l |                                      |                         |          |         |         |          |          |         |          |         |         |          |         |         |          |         |         |          |         |         |          |         |         |          |      |  |
| 1,2,4-Trimethylbenzene                       | 5                                    | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | 12.5    | 7.9      | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Acetone                                      | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | 2.6     | ND      | 4.4 J    | 4.2 J   | 9.5     | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Benzene                                      | 1                                    | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | 20      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Cyclohexane                                  | --                                   | ND                      | ND       | ND      | ND      | ND       | 94       | ND      | ND       | ND      | ND      | ND       | ND      | 520     | 94       | 60 D    | 155     | 70       | 63      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Isopropylbenzene                             | 5                                    | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | 10      | ND       | ND      | 1.4     | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Methylcyclohexane                            | --                                   | ND                      | ND       | ND      | ND      | ND       | 440 E    | 46      | 3.4      | 6       | ND      | 8.1      | ND      | 590     | 270      | 160     | 276     | 130      | 140     | 1.2     | ND       | ND      | ND      | ND       | ND   |  |
| n-Butylbenzene                               | 5                                    | ND                      | ND       | ND      | ND      | ND       |          | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | 1.1     | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| sec-Butylbenzene                             | 5                                    | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | 3.5     | 4.3      | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| tert-Butylbenzene                            | 100                                  | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | 1.5      | 1.3     | ND      | ND       | ND      | 1.7     | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Xylenes (Total)                              | 5                                    | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | 25      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Total VOCs                                   | --                                   | 0                       | 0        | 0       | 0       | 0        |          | 46      | 3        | 9       | 0       | 14       | 6       | 1175    | 364      | 220     | 439     | 204      | 203     | 1       | 0        | 0       | 0       | 0        | 0    |  |
| TICs <sup>3</sup>                            | --                                   | 5.3                     | ND       | ND      | 281     | ND       | 628      | 319     | 52       | 119     | 98      | 271      | 93      | 1721    | 146      | 139     | 572     | 247      | 99      | 87      | 6.2      | 4.5     | 20      | ND       | ND   |  |
| TCL Semi-Volatile Organic Compounds (SVOC)   |                                      |                         |          |         |         |          |          |         |          |         |         |          |         |         |          |         |         |          |         |         |          |         |         |          |      |  |
| 2-Methylnaphthalene                          | --                                   | ND                      | ND       | ND      | ND      | ND       | 140      | ND      | ND       | ND      | ND      | ND       | ND      | 25      | ND       | 0.05    | ND      | ND       | ND      | 2.8     | ND       | ND      | ND      | ND       | ND   |  |
| 2,4-Dimethylphenol                           | 50                                   | ND                      | ND       | ND      | 0.93 J  | 1.4 J    | ND       | ND      | 1.8      | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Acenaphthene                                 | 20                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.49    | ND       | 0.04    | ND      | ND       | ND      | ND      | 0.26     | 0.17    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Acenaphthylene                               | --                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.52    | ND       | ND      | ND      | ND       | ND      | ND      | 0.07     | 0.05    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Acetophenone                                 | --                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.52    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Anthracene                                   | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.52    | ND       | ND      | ND      | ND       | ND      | ND      | 0.09     | 0.08    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Benzo(a)anthracene                           | 0.002                                | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | 0.02    | ND      | ND       | ND      | ND      | ND       | 0.04    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Benzo(a)pyrene                               | ND                                   | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Benzo(b)fluoranthene                         | 0.002                                | ND                      | ND       | ND      | ND      | ND       | ND       | 0.44    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | 0.02    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Benzo(g,h,i)perylene                         | --                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.48    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Biphenyl                                     | 5                                    | ND                      | ND       | ND      | ND      | ND       | ND       | 0.64    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Bis(2-ethylhexyl) phthalate                  | --                                   | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Butyl benzyl phthalate                       | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.44    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Carbazole                                    | --                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.44    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Chrysene                                     | 0.002                                | ND                      | ND       | ND      | ND      | ND       | ND       | 0.52    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | 0.07    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Dibenz(a,h)anthracene                        | --                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.45    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Diethyl phthalate                            | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.42    | ND       | ND      | ND      | ND       | 0.37 J  | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Di-n-butyl phthalate                         | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.59    | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Indeno(1,2,3-cd)pyrene                       | 0.002                                | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Naphthalene                                  | 10                                   | ND                      | ND       | ND      | ND      | ND       | ND       | ND      | 0.05     | 0.1     | ND      | ND       | ND      | ND      | 0.42     | 0.21    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Fluoranthene                                 | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.48    | ND       | ND      | ND      | ND       | ND      | ND      | 0.04     | 0.05    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Fluorene                                     | 50                                   | ND                      | ND       | ND      | ND      | ND       | 15       | 1.1     | 0.1      | 0.18    | ND      | ND       | ND      | ND      | 0.63     | 0.44    | ND      | ND       | ND      | ND      | 0.06     | ND      | ND      | ND       | ND   |  |
| Phenanthrene                                 | 50                                   | 0.04                    | ND       | ND      | 0.71 BJ | ND       | 36 J     | 1.0     | ND       | 0.03    | ND      | ND       | ND      | ND      | 0.10     | 0.34    | ND      | ND       | ND      | 1.5     | 0.04     | 0.05    | ND      | 0.9 BJ   | ND   |  |
| Pyrene                                       | 50                                   | ND                      | ND       | ND      | ND      | ND       | ND       | 0.46    | ND       | ND      | ND      | ND       | ND      | ND      | 0.16     | 0.20    | ND      | ND       | ND      | ND      | ND       | ND      | ND      | ND       | ND   |  |
| Total SVOCs                                  | --                                   | 0                       | 0        | 0       | 2       | 1        | 191      | 10      | 2        | 0       | 0       | 0        | 0       | 25      | 2        | 2       | 0       | 0        | 0       | 4       | 0        | 0       | 0       | 1        | 0    |  |
| TICs <sup>3</sup>                            | --                                   | 376                     | 9.7      | 11.4    | 143     | 338      | 5280 TJN | 206     | 310      | 21.2    | 15.6    | 617      | 337     | 849     | 657      | 192     | 101     | 350      | 1645    | 267     | 699      | 16.5    | 11.3    | 181      | 365  |  |
| TAL Metals - ug/L (Total)                    |                                      |                         |          |         |         |          |          |         |          |         |         |          |         |         |          |         |         |          |         |         |          |         |         |          |      |  |
| Arsenic                                      | 25                                   | 5.4                     | 5.5      | 12.4    | 5.9 J   | ND       | NA       | NA      | 4.1      | 1.2     | 15.1    | ND       | ND      | NA      | 20.1     | 39.7    | 36.4    | 27       | 27      | NA      | 70.1     | 77.3    | 65.4    | 66       | 27   |  |
| Lead                                         | 25                                   | 2.1                     | 0.69     | 59.5    | 7.8 J   | ND       | NA       | NA      | 0.54     | ND      | 39.7    | 3.6 J    | ND      | NA      | ND       | ND      | 30      | 6 J      | ND      | NA      | 7.5      | ND      | 23.8    | 3.2 J    | ND   |  |
| Field Paramters                              |                                      |                         |          |         |         |          |          |         |          |         |         |          |         |         |          |         |         |          |         |         |          |         |         |          |      |  |
| Turbidity (NTU)                              | --                                   | 49.4                    | 47.3     | 263     | 27.4    | 18.5     |          | 216     | 5.8      | 12.4    | 452     | 17.4     | 16      | >1,000  | 5.7      | 12.4    | >1,000  | 49       | 18.3    | >1,000  | 172      | 73      | 579     | 36.4     | 31.7 |  |

Notes:

- Only those parameters detected at a minimum of or all other compounds were reported as non-detect.
- Values per NYSDEC TOGS 1.1.1 Class GA Groun
- Tentatively identified compounds

Definitions:

ND = Parameter not detected above laboratory detect

"--" = No GWQS available.

J = Estimated value; result is less than the sample qu

N = presumptive evidence of material.

T = Result is a tentatively identified compound (TIC) a

B = Compound was found in the blank and sample

|  |                    |
|--|--------------------|
|  | Sample result exce |
|  | Dates of samples c |

## APPENDIX A

### INSTITUTIONAL & ENGINEERING CONTROLS 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.**            **C905037**

**Site Name** **251 Homer Street Development**

Site Address: <sup>231-</sup>251 Homer Street    Zip Code: 14760  
City/Town: Olean  
County: Cattaraugus  
Site Acreage: 16.680

Reporting Period: April 16, 2019 to April 16, 2020

YES    NO

1. Is the information above correct? ☐    ☐

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? ☐    ☐

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? ☐    ☐

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? ☐    ☐

**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? ☐    ☐

**Box 2**

YES    NO

6. Is the current site use consistent with the use(s) listed below?  
Commercial and Industrial ☐    ☐

7. Are all ICs/ECs in place and functioning as designed? ☐    ☐

**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

**Box 2A**

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid? ☐ ☐

**If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.**

9. Are the assumptions in the Qualitative Exposure Assessment still valid? ☐ ☐  
(The Qualitative Exposure Assessment must be certified every five years)

**If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.**

**SITE NO. C905037****Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control**94.032-1-2.11**

Olean Solar Land LLC

Ground Water Use Restriction  
Soil Management Plan  
Landuse Restriction  
Monitoring Plan  
Site Management Plan  
IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
- the potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and
- require compliance with the Department approved Site Management Plan.

**94.032-1-2.12**

Olean Solar Land LLC

Soil Management Plan  
Ground Water Use Restriction  
Landuse Restriction  
Monitoring Plan  
Site Management Plan  
IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
- the potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and
- require compliance with the Department approved Site Management Plan.

**Box 4****Description of Engineering Controls**

Parcel

Engineering Control

**94.032-1-2.11**

**Cover System**

A site cover will be required to allow for commercial or industrial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

**94.032-1-2.12**

**Cover System**

A site cover will be required to allow for commercial or industrial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

**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 complete.

YES NO

☐ ☐

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

☐ ☐

**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. C905037**

**Box 6**

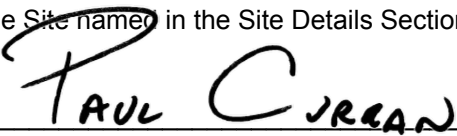
**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

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 \_\_\_\_\_ at \_\_\_\_\_,  
print name print business address

am certifying as \_\_\_\_\_ (Owner or Remedial Party)

for the Site named \_\_\_\_\_ in the Site Details Section of this form.

  
PAUL C. MORAN

Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

\_\_\_\_\_  
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 Lori E. Riker, P.E. at Benchmark Environmental Engineering & Science, PLLC  
print name 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218  
print business address

am certifying as a Professional Engineer for the Owner  
(Owner or Remedial Party)

Lori E. Riker  
Signature of Professional Engineer, for the Owner or  
Remedial Party, Rendering Certification



Stamp  
(Required for PE)

05/18/2020  
Date

## APPENDIX B

### SITE PHOTOGRAPHIC LOG

## SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



### SITE INSPECTION (MARCH 11, 2020)

Photo 1: View of Solar Panels looking east from the northern Access Road (looking east)

Photo 2: View of Solar Panels showing grass cover underwater (looking east)

Photo 3: View of Solar Panels from the southern Access Road along fence line (looking northeast)

Photo 4: View of eastern Access Road (looking northeast)

## SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



### SITE INSPECTION (MARCH 11, 2020)

Photo 5: Vegetative cover on eastern corner (looking west)

Photo 6: Vegetative cover between solar panels rows (looking west)

Photo 7: Area that received additional soil cover in 2019 but needs additional soil (looking northeast)

Photo 8: Area that received additional soil cover in 2019 but needs additional soil (looking northwest)

## SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



### SITE INSPECTION (MARCH 11, 2020)

Photo 9: Iron staining along banks of Two Mile Creek at southern end (looking west)

Photo 10: Stone along banks of Two Mile Creek (looking northwest)

Photo 11: Vegetated cover on southwest portion of undeveloped land west of Two Mile Creek (looking east)

Photo 12: Vegetated cover on southwest portion of undeveloped land west of Two Mile Creek (looking south)

## SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 15:



Photo 16:



### SITE INSPECTION (APRIL 30 - MAY 4, 2020)

Photo 13: Placing additional soil cover (looking southwest)

Photo 14: Placing additional soil cover (looking west)

Photo 15: Soil cover restored to 12-inch minimum (looking southwest)

Photo 16: Soil cover restored to 12-inch minimum (looking west)

## APPENDIX C

### GROUNDWATER SAMPLING FIELD FORMS AND ANALYTICAL DATA

# GROUNDWATER FIELD FORM

Project Name: Homeridae

Date:

Location: Olean, New York

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No.</b> MW-1         |                      |                       | Diameter (inches): 2"            |                |         | Sample Date / Time: 6-27-17 / 1050                                                                                               |           |          |                           |
|------------------------------|----------------------|-----------------------|----------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------------------|
| Product Depth (ft/TOR): -    |                      |                       | Water Column (ft): 11.48         |                |         | DTW when sampled: 11.61                                                                                                          |           |          |                           |
| DTW (static) (ft/TOR): 11.51 |                      |                       | One Well Volume (gal): 1.875     |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                           |
| Total Depth (ft/TOR): 22.99  |                      |                       | Total Volume Purged (gal): 6 gal |                |         | Purge Method: Typhoon                                                                                                            |           |          |                           |
| Time                         | Water Level (ft/TOR) | Acc. Volume (gallons) | pH (units)                       | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor         |
| 1000                         | 0 Initial            | 0                     | 6.36                             | 13.0           | 1232    | 13.6                                                                                                                             | 0.28      | -26      | Cloudy / Light Sweet odor |
| 1010                         | 1 11.52              | 1                     | 6.49                             | 12.7           | 1145    | 10.2                                                                                                                             | 0.78      | -106     |                           |
| 1020                         | 2 11.54              | 2                     | 6.50                             | 12.6           | 1117    | 8.9                                                                                                                              | 0.80      | -109     |                           |
| 1025                         | 3 11.59              | 3                     | 6.48                             | 12.4           | 1097    | 7.6                                                                                                                              | 0.84      | -112     | Clear / Sweet             |
| 1030                         | 4 11.60              | 4                     | 6.49                             | 12.2           | 1092    | 7.2                                                                                                                              | 0.88      | -113     |                           |
| 1040                         | 5 11.61              | 5                     | 6.50                             | 12.4           | 1090    | 5.4                                                                                                                              | 0.89      | -115     |                           |
| 6                            |                      |                       |                                  |                |         |                                                                                                                                  |           |          |                           |
| 7                            |                      |                       |                                  |                |         |                                                                                                                                  |           |          |                           |
| 8                            |                      |                       |                                  |                |         |                                                                                                                                  |           |          |                           |
| 9                            |                      |                       |                                  |                |         |                                                                                                                                  |           |          |                           |
| 10                           |                      |                       |                                  |                |         |                                                                                                                                  |           |          |                           |
| <b>Sample Information:</b>   |                      |                       |                                  |                |         |                                                                                                                                  |           |          |                           |
| 1050                         | S1 11.61             | 5.5                   | 6.49                             | 12.1           | 1088    | 4.7                                                                                                                              | 0.88      | -119     | Clear                     |
| 1055                         | S2 11.61             | 6                     | 6.48                             | 12.0           | 1082    | 4.1                                                                                                                              | 0.92      | -120     | Sweet Chem odor           |

| <b>Well No.</b> MW-6R        |                      |                       | Diameter (inches): 2"           |                |         | Sample Date / Time: 6-27-17 / 1500                                                                                               |           |          |                      |
|------------------------------|----------------------|-----------------------|---------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------------------|
| Product Depth (ft/TOR): -    |                      |                       | Water Column (ft): 9.03         |                |         | DTW when sampled: 13.40                                                                                                          |           |          |                      |
| DTW (static) (ft/TOR): 12.18 |                      |                       | One Well Volume (gal): 1.4      |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                      |
| Total Depth (ft/TOR): 21.21  |                      |                       | Total Volume Purged (gal): 6.25 |                |         | Purge Method: Typhoon                                                                                                            |           |          |                      |
| Time                         | Water Level (ft/TOR) | Acc. Volume (gallons) | pH (units)                      | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor    |
| 1405                         | 0 Initial            | 0                     | 7.20                            | 12.7           | 1515    | 86                                                                                                                               | 0.41      | -27      | Blackish "Hue" Cloud |
| 1415                         | 1 12.15              | 1.05                  | 6.90                            | 12.7           | 1533    | 96                                                                                                                               | 0.55      | -89      | ↳ Petro odor         |
| 1425                         | 2 12.83              | 2.5                   | 6.83                            | 12.2           | 1547    | 67.7                                                                                                                             | 0.58      | -111     | Clearer, Particulate |
| 1435                         | 3 12.98              | 3.75                  | 6.81                            | 12.0           | 1538    | 52.5                                                                                                                             | 0.64      | -109     | "                    |
| 1450                         | 4 13.17              | 5.0                   | 6.79                            | 11.9           | 1529    | 43.7                                                                                                                             | 0.68      | -97      | Clear / Light Petro  |
| 5                            |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| 6                            |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| 7                            |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| 8                            |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| 9                            |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| 10                           |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| <b>Sample Information:</b>   |                      |                       |                                 |                |         |                                                                                                                                  |           |          |                      |
| 1                            | S1 13.38             | 6                     | 6.78                            | 11.7           | 1515    | 29.9                                                                                                                             | 0.71      | -103     |                      |
| 1500                         | S2 13.40             | 6.25                  | 6.65                            | 11.7           | 1509    | 17.1                                                                                                                             | 0.72      | -105     | Small "Flourish"     |

## REMARKS:

\*MW-1 = BLIND Dup (MS/MSD)

MW-6R - Very Thin Layer of Product on top of water. USED  
Note: All water level measurements are in feet, distance from top of riser.

Bottom to Roman + Absorbent Sock for Couple Hours

Sampled @ end of day

PREPARED BY:

CFD

MW-6R = MSO Grey Sludge w/ Petro odor @ Bottom of Well

## Volume Calculation

| Diam. | Vol. (g/ft) |
|-------|-------------|
| 1"    | 0.041       |
| 2"    | 0.163       |
| 4"    | 0.653       |
| 6"    | 1.469       |

## Stabilization Criteria

| Parameter | Criteria   |
|-----------|------------|
| pH        | ± 0.1 unit |
| SC        | ± 3%       |
| Turbidity | ± 10%      |
| DO        | ± 0.3 mg/L |
| ORP       | ± 10 mV    |

# GROUNDWATER FIELD FORM

Project Name: Homeridae

Date:

Location: Olean, New York

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No.</b> MW-7       |                     | Diameter (inches): 1"              |            | Sample Date / Time: 6-28-19 / 0915                                                                                               |         |                 |           |          |                   |
|----------------------------|---------------------|------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|----------|-------------------|
| Product Depth (ftTOR): ~   |                     | Water Column (ft): 8.83            |            | DTW when sampled: 12.88                                                                                                          |         |                 |           |          |                   |
| DTW (static) (ftTOR): 8.02 |                     | One Well Volume (gal): 1.4         |            | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |         |                 |           |          |                   |
| Total Depth (ftTOR): 16.85 |                     | Total Volume Purged (gal): 4.5 gal |            | Purge Method: PARASTATIC Pump *                                                                                                  |         |                 |           |          |                   |
| Time                       | Water Level (ftTOR) | Acc. Volume (gallons)              | pH (units) | Temp. (deg. C)                                                                                                                   | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 0815                       | 0 Initial           | 0                                  | 7.23       | 12.7                                                                                                                             | 1544    | 198             | -32       | 0.67     | Cloudy Turbid     |
|                            | 1 8.00              | 1                                  | 7.07       | 12.4                                                                                                                             | 1587    | 168.2           | -94       | 0.88     | Light Rain        |
|                            | 2 9.43              | 2                                  | 6.92       | 12.1                                                                                                                             | 1529    | 157.6           | -116      | 0.79     |                   |
|                            | 3 10.27             | 3                                  | 6.82       | 11.9                                                                                                                             | 1503    | 93.6            | -115      | 0.84     | Cloudy Turbid     |
|                            | 4 11.67             | 4                                  | 6.80       | 12.0                                                                                                                             | 1497    | 89.3            | -103      | 0.92     | Light Rain        |
|                            | 5                   |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
|                            | 6                   |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
|                            | 7                   |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
|                            | 8                   |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
|                            | 9                   |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
|                            | 10                  |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
| <b>Sample Information:</b> |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                   |
| 0915                       | S1 12.88            | 4.5                                | 6.77       | 11.7                                                                                                                             | 1484    | 81.9            | -101      | 0.92     | Clearer - Cloudy  |
| 0925                       | S2 12.90            | 4.75                               | 6.73       | 11.6                                                                                                                             |         | 77.7            | -103      | 0.92     |                   |

| <b>Well No.</b> MW-8R      |                     | Diameter (inches): 2"              |            | Sample Date / Time: 6-28-19 / 0930                                                                                               |         |                 |           |          |                          |
|----------------------------|---------------------|------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|----------|--------------------------|
| Product Depth (ftTOR): ~   |                     | Water Column (ft): 14.29           |            | DTW when sampled: 9.85                                                                                                           |         |                 |           |          |                          |
| DTW (static) (ftTOR): 9.51 |                     | One Well Volume (gal): 2.3 gal     |            | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |         |                 |           |          |                          |
| Total Depth (ftTOR): 23.80 |                     | Total Volume Purged (gal): 7.5 gal |            | Purge Method: Typhoon                                                                                                            |         |                 |           |          |                          |
| Time                       | Water Level (ftTOR) | Acc. Volume (gallons)              | pH (units) | Temp. (deg. C)                                                                                                                   | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor        |
| 0930                       | 0 Initial           | 12.7                               | 6.84       | 12.7                                                                                                                             | 2617    | 531             | 1.15      | -50      | Cloudy / Petro odor      |
| 0945                       | 1 0                 | 12.6                               | 6.80       | 12.6                                                                                                                             | 2619    | 342             | 0.92      | -55      |                          |
| 1000                       | 2 2                 | 12.3                               | 6.37       | 12.3                                                                                                                             | 2614    | 69.0            | 1.22      | -53      |                          |
| 1015                       | 3 4                 | 12.1                               | 6.33       | 12.2                                                                                                                             | 2609    | 39.3            | 1.53      | -54      | Clear / Light Sweet odor |
| 1030                       | 4 6                 | 12.0                               | 6.30       | 12.0                                                                                                                             | 2608    | 32.3            | 1.58      | -55      | "                        |
|                            | 5                   |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
|                            | 6                   |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
|                            | 7                   |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
|                            | 8                   |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
|                            | 9                   |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
|                            | 10                  |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
| <b>Sample Information:</b> |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                          |
| 1045                       | S1 7                | 12.0                               | 6.30       | 12.1                                                                                                                             | 2605    | 27.4            | 1.59      | -57      | Clear                    |
| 1050                       | S2 7.5              | 11.8                               | 6.27       | 11.9                                                                                                                             | 2612    | 19.3            | 1.60      | -59      | Light odor               |

REMARKS: \* MW-7 - USED PARASTATIC Pump  
 MW-7 \* USED FIELD FILTER FOR METALS Sample

## Volume Calculation

| Diam. | Vol. (g/ft) |
|-------|-------------|
| 1"    | 0.041       |
| 2"    | 0.163       |
| 4"    | 0.653       |
| 6"    | 1.469       |

## Stabilization Criteria

| Parameter | Criteria   |
|-----------|------------|
| pH        | ± 0.1 unit |
| SC        | ± 3%       |
| Turbidity | ± 10%      |
| DO        | ± 0.3 mg/L |
| ORP       | ± 10 mV    |

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY: CFD

# GROUNDWATER FIELD FORM

Project Name: Homeridae

Date:

Location: Olean, New York

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No.</b> MW-10       |                     | Diameter (inches): 2"              |            | Sample Date / Time: 6-27-19 / 1215                                                                                               |         |                 |           |          |                                 |
|-----------------------------|---------------------|------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|----------|---------------------------------|
| Product Depth (ftTOR): 5 -  |                     | Water Column (ft): 8.87            |            | DTW when sampled: 16.72                                                                                                          |         |                 |           |          |                                 |
| DTW (static) (ftTOR): 13.20 |                     | One Well Volume (gal): 1.4         |            | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |         |                 |           |          |                                 |
| Total Depth (ftTOR): 22.07  |                     | Total Volume Purged (gal): 4.5 gal |            | Purge Method: Typhoon                                                                                                            |         |                 |           |          |                                 |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons)              | pH (units) | Temp. (deg. C)                                                                                                                   | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor               |
| 1215                        | 0 Initial           | 0                                  | 7.25       | 14.0                                                                                                                             | 1033    | 59.5            | 1.02      | -39      | BLACKISH GREY / PORRO           |
| 1125                        | 1 13.22             | 1.0                                | 6.99       | 13.0                                                                                                                             | 1028    | 54.1            | 1.58      | -48      | BLACK PARTICULATES              |
| 1140                        | 2 14.18             | 2.0                                | 6.75       | 12.7                                                                                                                             | 868     | 45              | 1.62      | -61      | CLEAR-GREY / PORRO ODOOR        |
| 1150                        | 3 15.02             | 3.0                                | 6.89       | 12.4                                                                                                                             | 749     | 36              | 1.68      | -54      | "                               |
| 1205                        | 4 16.55             | 4.0                                | 6.75       | 12.4                                                                                                                             | 706     | 27.2            | 1.79      | -53      | CLEAR / TINY BLACK PARTICULATES |
| 5                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| 6                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| 7                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| 8                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| 9                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| 10                          |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| <b>Sample Information:</b>  |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                                 |
| 1215                        | S1 16.71            | 4.0                                | 6.72       | 12.1                                                                                                                             | 702     | 17.4            | 1.92      | -60      | CLEAR PORRO ODOOR               |
| 1200                        | S2 16.72            | 4.5                                | 6.70       | 12.0                                                                                                                             | 701     | 15.8            | 2.37      | -58      | "                               |

\*LIGHT SHEEN ON TOP

| <b>Well No.</b> MW-12R      |                     | Diameter (inches): 2"              |            | Sample Date / Time: 6-27-19 / 1330                                                                                               |         |                 |           |          |                         |
|-----------------------------|---------------------|------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|----------|-------------------------|
| Product Depth (ftTOR): -    |                     | Water Column (ft): 9.95            |            | DTW when sampled: 19.01                                                                                                          |         |                 |           |          |                         |
| DTW (static) (ftTOR): 14.25 |                     | One Well Volume (gal): 1.6         |            | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |         |                 |           |          |                         |
| Total Depth (ftTOR): 24.20  |                     | Total Volume Purged (gal): 7.5 gal |            | Purge Method: Typhoon                                                                                                            |         |                 |           |          |                         |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons)              | pH (units) | Temp. (deg. C)                                                                                                                   | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor       |
| 1105                        | 0 Initial           | 0                                  | 7.13       | 13.1                                                                                                                             | 1163    | NA              | 1.89      | 15       | Grey Turbid             |
|                             | 1 14.10             | 1                                  | 7.08       | 12.4                                                                                                                             | 1294    | 800             | 1.37      | -13      | Grey Turbid             |
|                             | 2 15.37             | 2                                  | 7.07       | 11.8                                                                                                                             | 1423    | 319             | 1.30      | -43      | Grey Turbid             |
|                             | 3 16.78             | 3                                  | 6.99       | 10.6                                                                                                                             | 1641    | 278             | 1.10      | -48      | Grey Turbid             |
|                             | 4 17.38             | 4                                  | 7.01       | 10.6                                                                                                                             | 1744    | 236             | 1.32      | -54      | LIGHT GREY / PORRO      |
|                             | 5 18.84             | 5                                  | 7.02       | 10.6                                                                                                                             | 1725    | 194             | 1.45      | -62      | CLOUDY TURBID           |
|                             | 6 19.00             | 6                                  | 7.03       | 10.5                                                                                                                             | 1686    | 68              | 1.47      | -67      | CLEAR-GREY, PORRO ODOOR |
| 7                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                         |
| 8                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                         |
| 9                           |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                         |
| 10                          |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                         |
| <b>Sample Information:</b>  |                     |                                    |            |                                                                                                                                  |         |                 |           |          |                         |
| 1215                        | S1 19.00            | 6.5                                | 7.05       | 10.4                                                                                                                             | 1635    | 49              | 1.68      | -74      | CLEAR                   |
|                             | S2 19.01            | 7                                  | 7.07       | 10.4                                                                                                                             | 1615    | 37              | 1.72      | -81      | LIGHT ODOOR             |

REMARKS: \* MW-12R - THICK GREY SLUDGE @ Bottom of well w/ strong PORRO ODOOR

| Volume Calculation |             |
|--------------------|-------------|
| Diam.              | Vol. (g/ft) |
| 1"                 | 0.041       |
| 2"                 | 0.163       |
| 4"                 | 0.653       |
| 6"                 | 1.469       |

| Stabilization Criteria |            |
|------------------------|------------|
| Parameter              | Criteria   |
| pH                     | ± 0.1 unit |
| SC                     | ± 3%       |
| Turbidity              | ± 10%      |
| DO                     | ± 0.3 mg/L |
| ORP                    | ± 10 mV    |

Note: All water level measurements are in feet, distance from top of riser.

# GROUNDWATER FIELD FORM

Project Name: Homeridae

Date:

Location: Olean, New York

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No.</b> MW-14       |                     | Diameter (inches): 2"            |            | Sample Date / Time: 6-28-19 / 1215                                                                                               |         |                 |           |          |                   |
|-----------------------------|---------------------|----------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|----------|-------------------|
| Product Depth (ftTOR):      |                     | Water Column (ft): 10.17         |            | DTW when sampled: 17.67                                                                                                          |         |                 |           |          |                   |
| DTW (static) (ftTOR): 10.83 |                     | One Well Volume (gal): 1.6       |            | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |         |                 |           |          |                   |
| Total Depth (ftTOR): 21.80  |                     | Total Volume Purged (gal): 7.52L |            | Purge Method:                                                                                                                    |         |                 |           |          |                   |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons)            | pH (units) | Temp. (deg. C)                                                                                                                   | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1100                        | 0 Initial           | 0                                | 8.20       | 12.2                                                                                                                             | 806     | 214             | 0.50      | -110     | YELLOWISH TURBID  |
| 1115                        | 1 10.80             | 1.75                             | 7.93       | 11.4                                                                                                                             | 808     | 139             | 0.54      | -127     | LIGHT ODOUR       |
| 1130                        | 2 12.99             | 3.25                             | 7.41       | 11.2                                                                                                                             | 803     | 115             | 0.42      | -126     |                   |
| 1145                        | 3 15.40             | 5.0                              | 7.12       | 11.2                                                                                                                             | 795     | 103             | 0.87      | -110     |                   |
| 1200                        | 4 17.09             | 6.25                             | 7.06       | 11.0                                                                                                                             | 795     | 87              | 1.27      | -109     | CLARISH CLOUDY    |
|                             | 5                   |                                  |            |                                                                                                                                  |         | 49              |           |          | NO ODOUR          |
|                             | 6                   |                                  |            |                                                                                                                                  |         |                 |           |          |                   |
|                             | 7                   |                                  |            |                                                                                                                                  |         |                 |           |          |                   |
|                             | 8                   |                                  |            |                                                                                                                                  |         |                 |           |          |                   |
|                             | 9                   |                                  |            |                                                                                                                                  |         |                 |           |          |                   |
|                             | 10                  |                                  |            |                                                                                                                                  |         |                 |           |          |                   |
| <b>Sample Information:</b>  |                     |                                  |            |                                                                                                                                  |         |                 |           |          |                   |
| 1215                        | S1 17.67            | 7                                | 7.06       | 10.8                                                                                                                             | 797     | 36.4            | 1.29      | -92      | Clean             |
|                             | S2                  | 7.25                             | 7.08       | 11.0                                                                                                                             | 800     | 23.0            | 1.34      | -88      | LIGHT ODOUR       |

| <b>Well No.</b>            |                     | Diameter (inches):         |            | Sample Date / Time:                                                                                                   |         |                 |           |          |                   |
|----------------------------|---------------------|----------------------------|------------|-----------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|----------|-------------------|
| Product Depth (ftTOR):     |                     | Water Column (ft):         |            | DTW when sampled:                                                                                                     |         |                 |           |          |                   |
| DTW (static) (ftTOR):      |                     | One Well Volume (gal):     |            | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample |         |                 |           |          |                   |
| Total Depth (ftTOR):       |                     | Total Volume Purged (gal): |            | Purge Method:                                                                                                         |         |                 |           |          |                   |
| Time                       | Water Level (ftTOR) | Acc. Volume (gallons)      | pH (units) | Temp. (deg. C)                                                                                                        | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
|                            | 0 Initial           |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 1                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 2                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 3                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 4                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 5                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 6                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 7                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 8                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 9                   |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | 10                  |                            |            |                                                                                                                       |         |                 |           |          |                   |
| <b>Sample Information:</b> |                     |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | S1                  |                            |            |                                                                                                                       |         |                 |           |          |                   |
|                            | S2                  |                            |            |                                                                                                                       |         |                 |           |          |                   |

## REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

### Volume Calculation

| Diam. | Vol. (g/ft) |
|-------|-------------|
| 1"    | 0.041       |
| 2"    | 0.163       |
| 4"    | 0.653       |
| 6"    | 1.469       |

### Stabilization Criteria

| Parameter | Criteria   |
|-----------|------------|
| pH        | ± 0.1 unit |
| SC        | ± 3%       |
| Turbidity | ± 10%      |
| DO        | ± 0.3 mg/L |
| ORP       | ± 10 mV    |

PREPARED BY:

CFD

## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-155596-1

Client Project/Site: Benchmark - Olean Solar Land, LLC

For:

Benchmark Env. Eng. & Science, PLLC  
2558 Hamburg Turnpike  
Suite 300  
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski



Authorized for release by:  
3/17/2020 4:50:55 PM

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### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.                                                                 |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC/MS VOA TICs

| Qualifier | Qualifier Description                                                     |
|-----------|---------------------------------------------------------------------------|
| J         | Indicates an Estimated Value for TICs                                     |
| N         | Presumptive evidence of material.                                         |
| T         | Result is a tentatively identified compound (TIC) and an estimated value. |

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| B         | Compound was found in the blank and sample.                                                                    |
| F1        | MS and/or MSD recovery exceeds control limits.                                                                 |
| F2        | MS/MSD RPD exceeds control limits                                                                              |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X         | Surrogate recovery exceeds control limits                                                                      |

#### GC/MS Semi VOA TICs

| Qualifier | Qualifier Description                                                     |
|-----------|---------------------------------------------------------------------------|
| J         | Indicates an Estimated Value for TICs                                     |
| N         | Presumptive evidence of material.                                         |
| T         | Result is a tentatively identified compound (TIC) and an estimated value. |

### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

Eurofins TestAmerica, Buffalo

# Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Job ID: 480-155596-1**

**Laboratory: Eurofins TestAmerica, Buffalo**

## Narrative

### Job Narrative 480-155596-1

#### Comments

Revision II - This report was revised to add 4 analytes as per client request.  
Revision I - This report has been revised to update the project/site description.

#### Receipt

The samples were received on 6/28/2019 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

#### GC/MS VOA

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-481020 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-481060 recovered above the upper control limit for 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon disulfide, Cyclohexane, Methylcyclohexane and trans-1,2-Dichloroethene. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-7 (480-155596-5), MW-8R (480-155596-6), MW-14 (480-155596-7) and TRIP BLANK (480-155596-9).

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-8R (480-155596-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-12R (480-155596-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-480622 and analytical batch 480-481186 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: MW-1 (480-155596-1), MW-10 (480-155596-2), MW-12R (480-155596-3), MW-6R (480-155596-4), MW-7 (480-155596-5), MW-8R (480-155596-6), MW-14 (480-155596-7) and BLIND DUP (480-155596-8). Therefore, the data has been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-480622 and analytical batch 480-481186 recovered outside control limits for the following analytes: 4-Nitrophenol, 2,4,6-Trichlorophenol and 4,6-Dinitro-2-methylphenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: MW-1 (480-155596-1), MW-10 (480-155596-2), MW-12R (480-155596-3), MW-6R (480-155596-4), MW-7 (480-155596-5), MW-8R (480-155596-6), MW-14 (480-155596-7) and BLIND DUP (480-155596-8).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-1 (480-155596-1), MW-1 (480-155596-1[MS]), MW-1 (480-155596-1[MSD]), MW-12R (480-155596-3) and MW-6R (480-155596-4). These results have been reported and qualified.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: MW-10 (480-155596-2) and MW-12R (480-155596-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-481186 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, bis (2-chloroisopropyl) ether, 3-Nitroaniline and Bis(2-chloroethoxy)methane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: MW-1 (480-155596-1), MW-10 (480-155596-2), MW-12R (480-155596-3),

## Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

### Job ID: 480-155596-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

MW-6R (480-155596-4), MW-7 (480-155596-5), MW-8R (480-155596-6), MW-14 (480-155596-7) and BLIND DUP (480-155596-8).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-481186 recovered above the upper control limit for 4-Nitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (480-155596-1), MW-10 (480-155596-2), MW-12R (480-155596-3), MW-6R (480-155596-4), MW-7 (480-155596-5), MW-8R (480-155596-6), MW-14 (480-155596-7) and BLIND DUP (480-155596-8).

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-481186 was outside the method criteria for the following surrogate: 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following samples are impacted: MW-1 (480-155596-1), MW-10 (480-155596-2), MW-12R (480-155596-3), MW-6R (480-155596-4), MW-7 (480-155596-5), MW-8R (480-155596-6), MW-14 (480-155596-7) and BLIND DUP (480-155596-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-6R (480-155596-4). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-1

Lab Sample ID: 480-155596-1

Date Collected: 06/27/19 10:50

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,1-Dichloroethane                    | ND     | F1        | 1.0 | 0.38 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/06/19 21:35 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/06/19 21:35 | 1       |
| 2-Hexanone                            | ND     | F1        | 5.0 | 1.2  | ug/L |   |          | 07/06/19 21:35 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     | F1        | 5.0 | 2.1  | ug/L |   |          | 07/06/19 21:35 | 1       |
| Acetone                               | 7.0    | J         | 10  | 3.0  | ug/L |   |          | 07/06/19 21:35 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Chloroethane                          | ND     | F1        | 1.0 | 0.32 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Chloromethane                         | ND     | F1        | 1.0 | 0.35 | ug/L |   |          | 07/06/19 21:35 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/06/19 21:35 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Cyclohexane                           | 22     |           | 1.0 | 0.18 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Dichlorodifluoromethane               | ND     | F1        | 1.0 | 0.68 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/06/19 21:35 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Methylcyclohexane                     | 32     |           | 1.0 | 0.16 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/06/19 21:35 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/06/19 21:35 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Vinyl chloride                        | ND     | F1        | 1.0 | 0.90 | ug/L |   |          | 07/06/19 21:35 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/06/19 21:35 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/06/19 21:35 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-1

Lab Sample ID: 480-155596-1

Date Collected: 06/27/19 10:50

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/06/19 21:35 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/06/19 21:35 | 1       |
| tert-Butylbenzene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/06/19 21:35 | 1       |

| Tentatively Identified Compound    | Est. Result | Qualifier | Unit | D | RT    | CAS No.   | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-------------|-----------|------|---|-------|-----------|----------|----------------|---------|
| Cyclopentane, 1,1-dimethyl-        | 4.9         | T J N     | ug/L |   | 4.88  | 1638-26-2 |          | 07/06/19 21:35 | 1       |
| Cyclohexane, 1,3-dimethyl-, cis-   | 13          | T J N     | ug/L |   | 6.72  | 638-04-0  |          | 07/06/19 21:35 | 1       |
| Cyclohexane, 1,2-dimethyl-         | 8.6         | T J N     | ug/L |   | 7.08  | 583-57-3  |          | 07/06/19 21:35 | 1       |
| Cyclohexane, 1,3-dimethyl-, trans- | 5.3         | T J N     | ug/L |   | 7.20  | 2207-03-6 |          | 07/06/19 21:35 | 1       |
| Cyclohexane, ethyl-                | 12          | T J N     | ug/L |   | 7.68  | 1678-91-7 |          | 07/06/19 21:35 | 1       |
| Unknown                            | 4.6         | T J       | ug/L |   | 8.89  |           |          | 07/06/19 21:35 | 1       |
| Benzene, 4-ethyl-1,2-dimethyl-     | 4.2         | T J N     | ug/L |   | 11.37 | 934-80-5  |          | 07/06/19 21:35 | 1       |
| Benzene, 1,2,3,4-tetramethyl-      | 4.2         | T J N     | ug/L |   | 11.72 | 488-23-3  |          | 07/06/19 21:35 | 1       |
| Benzene, 1,2,4,5-tetramethyl-      | 4.5         | T J N     | ug/L |   | 12.14 | 95-93-2   |          | 07/06/19 21:35 | 1       |
| Benzene, (3-methyl-2-butenyl)-     | 4.7         | T J N     | ug/L |   | 12.55 | 4489-84-3 |          | 07/06/19 21:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 77 - 120 |          | 07/06/19 21:35 | 1       |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 73 - 120 |          | 07/06/19 21:35 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 07/06/19 21:35 | 1       |

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2,4,6-Trichlorophenol       | ND     | * F1      | 5.0 | 0.61 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2,4-Dichlorophenol          | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2,4-Dimethylphenol          | ND     |           | 5.0 | 0.50 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2,4-Dinitrophenol           | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2,4-Dinitrotoluene          | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2,6-Dinitrotoluene          | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Chloronaphthalene         | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Chlorophenol              | ND     |           | 5.0 | 0.53 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Methylnaphthalene         | ND     |           | 5.0 | 0.60 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Methylphenol              | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Nitroaniline              | ND     |           | 10  | 0.42 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Nitrophenol               | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 3,3'-Dichlorobenzidine      | ND     | F2        | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 3-Nitroaniline              | ND     |           | 10  | 0.48 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND     | *         | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Bromophenyl phenyl ether  | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Chloro-3-methylphenol     | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Chloroaniline             | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Chlorophenyl phenyl ether | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Methylphenol              | ND     |           | 10  | 0.36 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Nitroaniline              | ND     | F2        | 10  | 0.25 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 4-Nitrophenol               | ND     | *         | 10  | 1.5  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Acenaphthene                | ND     |           | 5.0 | 0.41 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Acenaphthylene              | ND     |           | 5.0 | 0.38 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Acetophenone                | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Anthracene                  | ND     |           | 5.0 | 0.28 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |

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# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-1

Lab Sample ID: 480-155596-1

Date Collected: 06/27/19 10:50

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Atrazine                      | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Bis(2-chloroethoxy)methane    | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Bis(2-chloroethyl)ether       | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Butyl benzyl phthalate        | ND     |           | 5.0 | 1.0  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Caprolactam                   | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Carbazole                     | ND     |           | 5.0 | 0.30 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Chrysene                      | ND     |           | 5.0 | 0.33 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Dibenz(a,h)anthracene         | ND     |           | 5.0 | 0.42 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Dibenzofuran                  | ND     |           | 10  | 0.51 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Diethyl phthalate             | ND     |           | 5.0 | 0.22 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Dimethyl phthalate            | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Di-n-butyl phthalate          | ND     |           | 5.0 | 0.31 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Di-n-octyl phthalate          | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Fluoranthene                  | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Fluorene                      | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Hexachlorobenzene             | ND     | F1 F2     | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Hexachlorobutadiene           | ND     |           | 5.0 | 0.68 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Hexachlorocyclopentadiene     | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Hexachloroethane              | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Isophorone                    | ND     |           | 5.0 | 0.43 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Naphthalene                   | ND     |           | 5.0 | 0.76 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Nitrobenzene                  | ND     |           | 5.0 | 0.29 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| N-Nitrosodi-n-propylamine     | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| N-Nitrosodiphenylamine        | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Pentachlorophenol             | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Phenanthrene                  | 0.94   | J B F1    | 5.0 | 0.44 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Phenol                        | ND     |           | 5.0 | 0.39 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Pyrene                        | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No.   | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|-----------|----------------|----------------|---------|
| Unknown                         | 3.0         | T J       | ug/L |   | 2.53 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 120         | T J       | ug/L |   | 2.82 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 30          | T J       | ug/L |   | 4.83 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 5.1         | T J       | ug/L |   | 5.93 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzene, 2-ethyl-1,3-dimethyl-  | 2.7         | T J N     | ug/L |   | 6.73 | 2870-04-4 | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 1.9         | T J       | ug/L |   | 6.89 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Benzene, 1,2,4,5-tetramethyl-   | 2.1         | T J N     | ug/L |   | 6.93 | 95-93-2   | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 2.5         | T J       | ug/L |   | 7.14 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 2.7         | T J       | ug/L |   | 7.77 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 1.6         | T J       | ug/L |   | 8.05 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-1

Lab Sample ID: 480-155596-1

Date Collected: 06/27/19 10:50

Matrix: Water

Date Received: 06/28/19 15:30

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit     | D | RT    | CAS No.   | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|----------|---|-------|-----------|----------------|----------------|---------|
| Unknown                         | 2.8         | T J       | ug/L     | - | 8.54  |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Anthracene-d10-                 | 2.6         | T J N     | ug/L     |   | 10.08 | 1719-06-8 | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Unknown                         | 5.8         | T J       | ug/L     |   | 11.01 |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Surrogate                       | %Recovery   | Qualifier | Limits   |   |       |           | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol            | 152         | X         | 41 - 120 |   |       |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Fluorobiphenyl                | 104         |           | 48 - 120 |   |       |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| 2-Fluorophenol                  | 65          |           | 35 - 120 |   |       |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Nitrobenzene-d5                 | 91          |           | 46 - 120 |   |       |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| Phenol-d5                       | 40          |           | 22 - 120 |   |       |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |
| p-Terphenyl-d14                 | 70          |           | 59 - 136 |   |       |           | 07/02/19 15:56 | 07/08/19 23:49 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.048  |           | 0.015 | 0.0056 | mg/L | - | 07/02/19 07:59 | 07/03/19 20:15 | 1       |
| Lead    | 0.0050 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:15 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-10

Lab Sample ID: 480-155596-2

Date Collected: 06/27/19 12:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/08/19 23:51 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/08/19 23:51 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 07/08/19 23:51 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 07/08/19 23:51 | 1       |
| Acetone                               | 4.4    | J         | 10  | 3.0  | ug/L |   |          | 07/08/19 23:51 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 07/08/19 23:51 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 23:51 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Cyclohexane                           | ND     |           | 1.0 | 0.18 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/08/19 23:51 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Methylcyclohexane                     | 8.1    |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/08/19 23:51 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 23:51 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 23:51 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/08/19 23:51 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/08/19 23:51 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-10

Lab Sample ID: 480-155596-2

Date Collected: 06/27/19 12:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 23:51 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 23:51 | 1       |
| tert-Butylbenzene      | 1.5    |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 23:51 | 1       |

| Tentatively Identified Compound    | Est. Result | Qualifier | Unit | D | RT    | CAS No.   | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-------------|-----------|------|---|-------|-----------|----------|----------------|---------|
| Cyclohexane, 1,2-dimethyl-, trans- | 25          | T J N     | ug/L |   | 7.32  | 6876-23-9 |          | 07/08/19 23:51 | 1       |
| Cyclohexane, 1,3,5-trimethyl-      | 26          | T J N     | ug/L |   | 7.83  | 1839-63-0 |          | 07/08/19 23:51 | 1       |
| Cyclohexane, 1,2,4-trimethyl-      | 25          | T J N     | ug/L |   | 8.19  | 2234-75-5 |          | 07/08/19 23:51 | 1       |
| Unknown                            | 32          | T J       | ug/L |   | 8.76  |           |          | 07/08/19 23:51 | 1       |
| Unknown                            | 30          | T J       | ug/L |   | 9.45  |           |          | 07/08/19 23:51 | 1       |
| Unknown                            | 24          | T J       | ug/L |   | 11.47 |           |          | 07/08/19 23:51 | 1       |
| Unknown                            | 23          | T J       | ug/L |   | 12.30 |           |          | 07/08/19 23:51 | 1       |
| Unknown                            | 30          | T J       | ug/L |   | 12.45 |           |          | 07/08/19 23:51 | 1       |
| Unknown                            | 31          | T J       | ug/L |   | 12.88 |           |          | 07/08/19 23:51 | 1       |
| Unknown                            | 25          | T J       | ug/L |   | 12.97 |           |          | 07/08/19 23:51 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 77 - 120 |          | 07/08/19 23:51 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 73 - 120 |          | 07/08/19 23:51 | 1       |
| Toluene-d8 (Surr)            | 83        |           | 80 - 120 |          | 07/08/19 23:51 | 1       |

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

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2,4,6-Trichlorophenol       | ND     | *         | 25 | 3.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2,4-Dichlorophenol          | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2,4-Dimethylphenol          | ND     |           | 25 | 2.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2,4-Dinitrophenol           | ND     |           | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2,4-Dinitrotoluene          | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2,6-Dinitrotoluene          | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Chloronaphthalene         | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Chlorophenol              | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Methylnaphthalene         | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Methylphenol              | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Nitroaniline              | ND     |           | 50 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Nitrophenol               | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 3,3'-Dichlorobenzidine      | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 3-Nitroaniline              | ND     |           | 50 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4,6-Dinitro-2-methylphenol  | ND     | *         | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Bromophenyl phenyl ether  | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Chloro-3-methylphenol     | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Chloroaniline             | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Chlorophenyl phenyl ether | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Methylphenol              | ND     |           | 50 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Nitroaniline              | ND     |           | 50 | 1.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 4-Nitrophenol               | ND     | *         | 50 | 7.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Acenaphthene                | ND     |           | 25 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Acenaphthylene              | ND     |           | 25 | 1.9 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Acetophenone                | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Anthracene                  | ND     |           | 25 | 1.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-10

Lab Sample ID: 480-155596-2

Date Collected: 06/27/19 12:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                       | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Atrazine                      | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Benzaldehyde                  | ND     |           | 25 | 1.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Benzo(a)anthracene            | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Benzo(a)pyrene                | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Benzo(b)fluoranthene          | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Benzo(g,h,i)perylene          | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Benzo(k)fluoranthene          | ND     |           | 25 | 3.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Biphenyl                      | ND     |           | 25 | 3.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| bis (2-chloroisopropyl) ether | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Bis(2-chloroethoxy)methane    | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Bis(2-chloroethyl)ether       | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 25 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Butyl benzyl phthalate        | ND     |           | 25 | 5.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Caprolactam                   | ND     |           | 25 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Carbazole                     | ND     |           | 25 | 1.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Chrysene                      | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Dibenz(a,h)anthracene         | ND     |           | 25 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Dibenzofuran                  | ND     |           | 50 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Diethyl phthalate             | ND     |           | 25 | 1.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Dimethyl phthalate            | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Di-n-butyl phthalate          | ND     |           | 25 | 1.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Di-n-octyl phthalate          | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Fluoranthene                  | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Fluorene                      | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Hexachlorobenzene             | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Hexachlorobutadiene           | ND     |           | 25 | 3.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Hexachlorocyclopentadiene     | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Hexachloroethane              | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Isophorone                    | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Naphthalene                   | ND     |           | 25 | 3.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Nitrobenzene                  | ND     |           | 25 | 1.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| N-Nitrosodi-n-propylamine     | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| N-Nitrosodiphenylamine        | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Pentachlorophenol             | ND     |           | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Phenanthrene                  | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Phenol                        | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Pyrene                        | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:17 | 5       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No.      | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|--------------|----------------|----------------|---------|
| Unknown                         | 100         | T J       | ug/L |   | 2.53 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 110         | T J       | ug/L |   | 2.71 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 24          | T J       | ug/L |   | 4.76 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 32          | T J       | ug/L |   | 4.81 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 25          | T J       | ug/L |   | 4.99 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Cyclooctane, 1-methyl-3-propyl- | 30          | T J N     | ug/L |   | 5.47 | 1000151-39-4 | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 29          | T J       | ug/L |   | 5.60 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 23          | T J       | ug/L |   | 5.68 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 26          | T J       | ug/L |   | 5.90 |              | 07/02/19 15:56 | 07/09/19 00:17 | 5       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: MW-10**

**Date Collected: 06/27/19 12:15**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-2**

**Matrix: Water**

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit     | D | RT   | CAS No.    | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|----------|---|------|------------|----------------|----------------|---------|
| Unknown                         | 16          | T J       | ug/L     |   | 6.10 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 23          | T J       | ug/L     |   | 6.36 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 17          | T J       | ug/L     |   | 6.64 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 18          | T J       | ug/L     |   | 6.73 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 16          | T J       | ug/L     |   | 6.97 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 22          | T J       | ug/L     |   | 7.69 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 19          | T J       | ug/L     |   | 7.91 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 21          | T J       | ug/L     |   | 8.57 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 21          | T J       | ug/L     |   | 8.59 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Unknown                         | 22          | T J       | ug/L     |   | 9.12 |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Octadecane, 2,6-dimethyl-       | 23          | T J N     | ug/L     |   | 9.57 | 75163-97-2 | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Surrogate                       | %Recovery   | Qualifier | Limits   |   |      |            | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol            | 116         |           | 41 - 120 |   |      |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Fluorobiphenyl                | 93          |           | 48 - 120 |   |      |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| 2-Fluorophenol                  | 48          |           | 35 - 120 |   |      |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Nitrobenzene-d5                 | 76          |           | 46 - 120 |   |      |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| Phenol-d5                       | 29          |           | 22 - 120 |   |      |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |
| p-Terphenyl-d14                 | 64          |           | 59 - 136 |   |      |            | 07/02/19 15:56 | 07/09/19 00:17 | 5       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | ND     |           | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:46 | 1       |
| Lead    | 0.0036 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:46 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-12R

Lab Sample ID: 480-155596-3

Date Collected: 06/27/19 13:30

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 4.0 | 3.3  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 4.0 | 0.84 | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 4.0 | 1.2  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,1,2-Trichloroethane                 | ND     |           | 4.0 | 0.92 | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,1-Dichloroethane                    | ND     |           | 4.0 | 1.5  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,1-Dichloroethene                    | ND     |           | 4.0 | 1.2  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,2,4-Trichlorobenzene                | ND     |           | 4.0 | 1.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 4.0 | 1.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,2-Dibromoethane                     | ND     |           | 4.0 | 2.9  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,2-Dichlorobenzene                   | ND     |           | 4.0 | 3.2  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,2-Dichloroethane                    | ND     |           | 4.0 | 0.84 | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,2-Dichloropropane                   | ND     |           | 4.0 | 2.9  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,3-Dichlorobenzene                   | ND     |           | 4.0 | 3.1  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 1,4-Dichlorobenzene                   | ND     |           | 4.0 | 3.4  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 2-Butanone (MEK)                      | ND     |           | 40  | 5.3  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 2-Hexanone                            | ND     |           | 20  | 5.0  | ug/L |   |          | 07/09/19 00:16 | 4       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 20  | 8.4  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Acetone                               | ND     |           | 40  | 12   | ug/L |   |          | 07/09/19 00:16 | 4       |
| Benzene                               | ND     |           | 4.0 | 1.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Bromodichloromethane                  | ND     |           | 4.0 | 1.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Bromoform                             | ND     |           | 4.0 | 1.0  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Bromomethane                          | ND     |           | 4.0 | 2.8  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Carbon disulfide                      | ND     |           | 4.0 | 0.76 | ug/L |   |          | 07/09/19 00:16 | 4       |
| Carbon tetrachloride                  | ND     |           | 4.0 | 1.1  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Chlorobenzene                         | ND     |           | 4.0 | 3.0  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Chloroethane                          | ND     |           | 4.0 | 1.3  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Chloroform                            | ND     |           | 4.0 | 1.4  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Chloromethane                         | ND     |           | 4.0 | 1.4  | ug/L |   |          | 07/09/19 00:16 | 4       |
| cis-1,2-Dichloroethene                | ND     |           | 4.0 | 3.2  | ug/L |   |          | 07/09/19 00:16 | 4       |
| cis-1,3-Dichloropropene               | ND     |           | 4.0 | 1.4  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Cyclohexane                           | 70     |           | 4.0 | 0.72 | ug/L |   |          | 07/09/19 00:16 | 4       |
| Dibromochloromethane                  | ND     |           | 4.0 | 1.3  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Dichlorodifluoromethane               | ND     |           | 4.0 | 2.7  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Ethylbenzene                          | ND     |           | 4.0 | 3.0  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Isopropylbenzene                      | ND     |           | 4.0 | 3.2  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Methyl acetate                        | ND     |           | 10  | 5.2  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Methyl tert-butyl ether               | ND     |           | 4.0 | 0.64 | ug/L |   |          | 07/09/19 00:16 | 4       |
| Methylcyclohexane                     | 130    |           | 4.0 | 0.64 | ug/L |   |          | 07/09/19 00:16 | 4       |
| Methylene Chloride                    | ND     |           | 4.0 | 1.8  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Styrene                               | ND     |           | 4.0 | 2.9  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Tetrachloroethene                     | ND     |           | 4.0 | 1.4  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Toluene                               | ND     |           | 4.0 | 2.0  | ug/L |   |          | 07/09/19 00:16 | 4       |
| trans-1,2-Dichloroethene              | ND     |           | 4.0 | 3.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| trans-1,3-Dichloropropene             | ND     |           | 4.0 | 1.5  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Trichloroethene                       | ND     |           | 4.0 | 1.8  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Trichlorofluoromethane                | ND     |           | 4.0 | 3.5  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Vinyl chloride                        | ND     |           | 4.0 | 3.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| Xylenes, Total                        | ND     |           | 8.0 | 2.6  | ug/L |   |          | 07/09/19 00:16 | 4       |
| n-Butylbenzene                        | ND     |           | 4.0 | 2.6  | ug/L |   |          | 07/09/19 00:16 | 4       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-12R

Lab Sample ID: 480-155596-3

Date Collected: 06/27/19 13:30

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | 7.9    |           | 4.0 | 3.0 | ug/L |   |          | 07/09/19 00:16 | 4       |
| sec-Butylbenzene       | 4.3    |           | 4.0 | 3.0 | ug/L |   |          | 07/09/19 00:16 | 4       |
| tert-Butylbenzene      | ND     |           | 4.0 | 3.2 | ug/L |   |          | 07/09/19 00:16 | 4       |

| Tentatively Identified Compound      | Est. Result | Qualifier | Unit | D | RT    | CAS No.    | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|------|---|-------|------------|----------|----------------|---------|
| Butane, 2-methyl-                    | 18          | T J N     | ug/L |   | 2.05  | 78-78-4    |          | 07/09/19 00:16 | 4       |
| Cyclohexane, 1,3-dimethyl-, cis-     | 21          | T J N     | ug/L |   | 6.95  | 638-04-0   |          | 07/09/19 00:16 | 4       |
| Unknown                              | 15          | T J       | ug/L |   | 10.41 |            |          | 07/09/19 00:16 | 4       |
| Benzene, 1-methyl-4-(1-methylethyl)- | 36          | T J N     | ug/L |   | 11.58 | 99-87-6    |          | 07/09/19 00:16 | 4       |
| Unknown                              | 18          | T J       | ug/L |   | 11.70 |            |          | 07/09/19 00:16 | 4       |
| Benzene, methyl(1-methylethyl)-      | 38          | T J N     | ug/L |   | 11.94 | 25155-15-1 |          | 07/09/19 00:16 | 4       |
| 1,3-Cyclopentadiene,                 | 16          | T J N     | ug/L |   | 11.98 | 76089-59-3 |          | 07/09/19 00:16 | 4       |
| 1,2,3,4-tetramethyl-5-methylene-     |             |           |      |   |       |            |          |                |         |
| Benzene, 1,2,4,5-tetramethyl-        | 55          | T J N     | ug/L |   | 12.35 | 95-93-2    |          | 07/09/19 00:16 | 4       |
| Unknown                              | 16          | T J       | ug/L |   | 12.66 |            |          | 07/09/19 00:16 | 4       |
| 1,4-Methanonaphthalene,              | 14          | T J N     | ug/L |   | 13.99 | 4453-90-1  |          | 07/09/19 00:16 | 4       |
| 1,4-dihydro-                         |             |           |      |   |       |            |          |                |         |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 77 - 120 |          | 07/09/19 00:16 | 4       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 73 - 120 |          | 07/09/19 00:16 | 4       |
| Toluene-d8 (Surr)            | 88        |           | 80 - 120 |          | 07/09/19 00:16 | 4       |

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

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2,4,6-Trichlorophenol       | ND     | *         | 25 | 3.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2,4-Dichlorophenol          | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2,4-Dimethylphenol          | ND     |           | 25 | 2.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2,4-Dinitrophenol           | ND     |           | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2,4-Dinitrotoluene          | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2,6-Dinitrotoluene          | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Chloronaphthalene         | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Chlorophenol              | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Methylnaphthalene         | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Methylphenol              | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Nitroaniline              | ND     |           | 50 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Nitrophenol               | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 3,3'-Dichlorobenzidine      | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 3-Nitroaniline              | ND     |           | 50 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4,6-Dinitro-2-methylphenol  | ND     | *         | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Bromophenyl phenyl ether  | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Chloro-3-methylphenol     | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Chloroaniline             | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Chlorophenyl phenyl ether | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Methylphenol              | ND     |           | 50 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Nitroaniline              | ND     |           | 50 | 1.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 4-Nitrophenol               | ND     | *         | 50 | 7.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Acenaphthene                | ND     |           | 25 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Acenaphthylene              | ND     |           | 25 | 1.9 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Acetophenone                | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |

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# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-12R

Lab Sample ID: 480-155596-3

Date Collected: 06/27/19 13:30

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                       | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Anthracene                    | ND     |           | 25 | 1.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Atrazine                      | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Benzaldehyde                  | ND     |           | 25 | 1.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Benzo(a)anthracene            | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Benzo(a)pyrene                | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Benzo(b)fluoranthene          | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Benzo(g,h,i)perylene          | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Benzo(k)fluoranthene          | ND     |           | 25 | 3.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Biphenyl                      | ND     |           | 25 | 3.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| bis (2-chloroisopropyl) ether | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Bis(2-chloroethoxy)methane    | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Bis(2-chloroethyl)ether       | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 25 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Butyl benzyl phthalate        | ND     |           | 25 | 5.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Caprolactam                   | ND     |           | 25 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Carbazole                     | ND     |           | 25 | 1.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Chrysene                      | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Dibenz(a,h)anthracene         | ND     |           | 25 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Dibenzofuran                  | ND     |           | 50 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Diethyl phthalate             | ND     |           | 25 | 1.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Dimethyl phthalate            | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Di-n-butyl phthalate          | ND     |           | 25 | 1.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Di-n-octyl phthalate          | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Fluoranthene                  | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Fluorene                      | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Hexachlorobenzene             | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Hexachlorobutadiene           | ND     |           | 25 | 3.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Hexachlorocyclopentadiene     | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Hexachloroethane              | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Isophorone                    | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Naphthalene                   | ND     |           | 25 | 3.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Nitrobenzene                  | ND     |           | 25 | 1.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| N-Nitrosodi-n-propylamine     | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| N-Nitrosodiphenylamine        | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Pentachlorophenol             | ND     |           | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Phenanthrene                  | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Phenol                        | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Pyrene                        | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 00:45 | 5       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 90          | T J       | ug/L |   | 2.53 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 100         | T J       | ug/L |   | 2.71 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 34          | T J       | ug/L |   | 4.81 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 9.6         | T J       | ug/L |   | 5.94 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 10          | T J       | ug/L |   | 7.08 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 12          | T J       | ug/L |   | 7.28 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 16          | T J       | ug/L |   | 7.63 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 8.4         | T J       | ug/L |   | 7.98 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                         | 15          | T J       | ug/L |   | 8.01 |         | 07/02/19 15:56 | 07/09/19 00:45 | 5       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: MW-12R**

**Lab Sample ID: 480-155596-3**

**Date Collected: 06/27/19 13:30**

**Matrix: Water**

**Date Received: 06/28/19 15:30**

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

| Tentatively Identified Compound    | Est. Result | Qualifier | Unit     | D | RT   | CAS No.  | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-------------|-----------|----------|---|------|----------|----------------|----------------|---------|
| Unknown                            | 9.9         | T J       | ug/L     |   | 8.10 |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Hexadecane, 2,6,10,14-tetramethyl- | 8.3         | T J N     | ug/L     |   | 8.19 | 638-36-8 | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                            | 15          | T J       | ug/L     |   | 8.35 |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                            | 13          | T J       | ug/L     |   | 8.96 |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Unknown                            | 8.8         | T J       | ug/L     |   | 9.30 |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Surrogate                          | %Recovery   | Qualifier | Limits   |   |      |          | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol               | 112         |           | 41 - 120 |   |      |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Fluorobiphenyl                   | 87          |           | 48 - 120 |   |      |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| 2-Fluorophenol                     | 56          |           | 35 - 120 |   |      |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Nitrobenzene-d5                    | 76          |           | 46 - 120 |   |      |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| Phenol-d5                          | 35          |           | 22 - 120 |   |      |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |
| p-Terphenyl-d14                    | 58          | X         | 59 - 136 |   |      |          | 07/02/19 15:56 | 07/09/19 00:45 | 5       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.027  |           | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:50 | 1       |
| Lead    | 0.0060 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:50 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-6R

Lab Sample ID: 480-155596-4

Date Collected: 06/27/19 15:00

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/09/19 00:40 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/09/19 00:40 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 07/09/19 00:40 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 07/09/19 00:40 | 1       |
| Acetone                               | 4.4    | J         | 10  | 3.0  | ug/L |   |          | 07/09/19 00:40 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 07/09/19 00:40 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/09/19 00:40 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Cyclohexane                           | 18     |           | 1.0 | 0.18 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/09/19 00:40 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Methylcyclohexane                     | 13     |           | 1.0 | 0.16 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/09/19 00:40 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/09/19 00:40 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/09/19 00:40 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/09/19 00:40 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/09/19 00:40 | 1       |

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# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-6R

Lab Sample ID: 480-155596-4

Date Collected: 06/27/19 15:00

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/09/19 00:40 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/09/19 00:40 | 1       |
| tert-Butylbenzene      | 1.6    |           | 1.0 | 0.81 | ug/L |   |          | 07/09/19 00:40 | 1       |

| Tentatively Identified Compound      | Est. Result | Qualifier | Unit | D | RT    | CAS No.   | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|------|---|-------|-----------|----------|----------------|---------|
| Cyclopentane, 1,1-dimethyl-          | 7.2         | T J N     | ug/L |   | 5.11  | 1638-26-2 |          | 07/09/19 00:40 | 1       |
| Cyclohexane, 1,3-dimethyl-, cis-     | 11          | T J N     | ug/L |   | 6.95  | 638-04-0  |          | 07/09/19 00:40 | 1       |
| Unknown                              | 7.0         | T J       | ug/L |   | 7.14  |           |          | 07/09/19 00:40 | 1       |
| Cyclohexane, 1,2-dimethyl-, trans-   | 9.1         | T J N     | ug/L |   | 7.32  | 6876-23-9 |          | 07/09/19 00:40 | 1       |
| Cyclohexane, 1,4-dimethyl-           | 7.1         | T J N     | ug/L |   | 7.44  | 589-90-2  |          | 07/09/19 00:40 | 1       |
| Unknown                              | 7.0         | T J       | ug/L |   | 8.76  |           |          | 07/09/19 00:40 | 1       |
| Benzene, 1-methyl-2-(1-methylethyl)- | 7.0         | T J N     | ug/L |   | 11.58 | 527-84-4  |          | 07/09/19 00:40 | 1       |
| Benzene, 1-ethyl-2,4-dimethyl-       | 11          | T J N     | ug/L |   | 11.94 | 874-41-9  |          | 07/09/19 00:40 | 1       |
| Unknown                              | 10          | T J       | ug/L |   | 12.36 |           |          | 07/09/19 00:40 | 1       |
| Unknown                              | 6.8         | T J       | ug/L |   | 12.65 |           |          | 07/09/19 00:40 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 77 - 120 |          | 07/09/19 00:40 | 1       |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 73 - 120 |          | 07/09/19 00:40 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 80 - 120 |          | 07/09/19 00:40 | 1       |

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

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2,4,6-Trichlorophenol       | ND     | *         | 25 | 3.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2,4-Dichlorophenol          | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2,4-Dimethylphenol          | ND     |           | 25 | 2.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2,4-Dinitrophenol           | ND     |           | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2,4-Dinitrotoluene          | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2,6-Dinitrotoluene          | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Chloronaphthalene         | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Chlorophenol              | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Methylnaphthalene         | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Methylphenol              | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Nitroaniline              | ND     |           | 50 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Nitrophenol               | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 3,3'-Dichlorobenzidine      | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 3-Nitroaniline              | ND     |           | 50 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND     | *         | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Bromophenyl phenyl ether  | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Chloro-3-methylphenol     | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Chloroaniline             | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Chlorophenyl phenyl ether | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Methylphenol              | ND     |           | 50 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Nitroaniline              | ND     |           | 50 | 1.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 4-Nitrophenol               | ND     | *         | 50 | 7.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Acenaphthene                | ND     |           | 25 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Acenaphthylene              | ND     |           | 25 | 1.9 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Acetophenone                | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Anthracene                  | ND     |           | 25 | 1.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |

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# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-6R

Lab Sample ID: 480-155596-4

Date Collected: 06/27/19 15:00

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                       | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Atrazine                      | ND     |           | 25 | 2.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzaldehyde                  | ND     |           | 25 | 1.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzo(a)anthracene            | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzo(a)pyrene                | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 25 | 3.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Biphenyl                      | ND     |           | 25 | 3.3 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Bis(2-chloroethoxy)methane    | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Bis(2-chloroethyl)ether       | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 25 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Butyl benzyl phthalate        | ND     |           | 25 | 5.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Caprolactam                   | ND     |           | 25 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Carbazole                     | ND     |           | 25 | 1.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Chrysene                      | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Dibenz(a,h)anthracene         | ND     |           | 25 | 2.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Dibenzofuran                  | ND     |           | 50 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Diethyl phthalate             | ND     |           | 25 | 1.1 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Dimethyl phthalate            | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Di-n-butyl phthalate          | ND     |           | 25 | 1.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Di-n-octyl phthalate          | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Fluoranthene                  | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Fluorene                      | ND     |           | 25 | 1.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Hexachlorobenzene             | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Hexachlorobutadiene           | ND     |           | 25 | 3.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Hexachlorocyclopentadiene     | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Hexachloroethane              | ND     |           | 25 | 3.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 25 | 2.4 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Isophorone                    | ND     |           | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Naphthalene                   | ND     |           | 25 | 3.8 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Nitrobenzene                  | ND     |           | 25 | 1.5 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| N-Nitrosodi-n-propylamine     | ND     |           | 25 | 2.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| N-Nitrosodiphenylamine        | ND     |           | 25 | 2.6 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Pentachlorophenol             | ND     |           | 50 | 11  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Phenanthrene                  | 3.7    | J B       | 25 | 2.2 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Phenol                        | ND     |           | 25 | 2.0 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Pyrene                        | ND     |           | 25 | 1.7 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:13 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No.  | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|----------|----------------|----------------|---------|
| Unknown                         | 72          | T J       | ug/L |   | 2.54 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 530         | T J       | ug/L |   | 2.82 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 160         | T J       | ug/L |   | 4.83 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 13          | T J       | ug/L |   | 5.93 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Benzene, 4-ethyl-1,2-dimethyl-  | 11          | T J N     | ug/L |   | 6.73 | 934-80-5 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Column Bleed                    | 9.0         | T J       | ug/L |   | 6.89 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 19          | T J       | ug/L |   | 7.30 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 11          | T J       | ug/L |   | 7.59 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 33          | T J       | ug/L |   | 7.65 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 10          | T J       | ug/L |   | 7.69 |          | 07/02/19 15:56 | 07/09/19 01:13 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: MW-6R**

**Date Collected: 06/27/19 15:00**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-4**

**Matrix: Water**

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT    | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|-------|---------|----------------|----------------|---------|
| Unknown                         | 17          | TJ        | ug/L |   | 7.77  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 10          | TJ        | ug/L |   | 7.90  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 24          | TJ        | ug/L |   | 8.03  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 15          | TJ        | ug/L |   | 8.16  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 9.0         | TJ        | ug/L |   | 8.36  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 25          | TJ        | ug/L |   | 8.52  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 21          | TJ        | ug/L |   | 8.54  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 14          | TJ        | ug/L |   | 9.07  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 14          | TJ        | ug/L |   | 9.31  |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Unknown                         | 13          | TJ        | ug/L |   | 10.49 |         | 07/02/19 15:56 | 07/09/19 01:13 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 124       | X         | 41 - 120 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Fluorobiphenyl     | 94        |           | 48 - 120 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| 2-Fluorophenol       | 66        |           | 35 - 120 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Nitrobenzene-d5      | 85        |           | 46 - 120 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| Phenol-d5            | 44        |           | 22 - 120 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |
| p-Terphenyl-d14      | 68        |           | 59 - 136 | 07/02/19 15:56 | 07/09/19 01:13 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.042  |           | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:54 | 1       |
| Lead    | 0.012  |           | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:54 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-7

Lab Sample ID: 480-155596-5

Date Collected: 06/28/19 09:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/08/19 13:52 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/08/19 13:52 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 07/08/19 13:52 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 07/08/19 13:52 | 1       |
| Acetone                               | ND     |           | 10  | 3.0  | ug/L |   |          | 07/08/19 13:52 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 07/08/19 13:52 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 13:52 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Cyclohexane                           | ND     |           | 1.0 | 0.18 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/08/19 13:52 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Methylcyclohexane                     | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/08/19 13:52 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 13:52 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 13:52 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/08/19 13:52 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/08/19 13:52 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-7

Lab Sample ID: 480-155596-5

Date Collected: 06/28/19 09:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 13:52 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 13:52 | 1       |
| tert-Butylbenzene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 13:52 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT    | CAS No.  | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|-------|----------|----------|----------------|---------|
| Benzene, 1-ethyl-3,5-dimethyl-  | 2.5         | T J N     | ug/L |   | 11.94 | 934-74-7 |          | 07/08/19 13:52 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 77 - 120 |          | 07/08/19 13:52 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 07/08/19 13:52 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 80 - 120 |          | 07/08/19 13:52 | 1       |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2,4,6-Trichlorophenol         | ND     | *         | 5.0 | 0.61 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2,4-Dimethylphenol            | ND     |           | 5.0 | 0.50 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     | *         | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 4-Nitrophenol                 | ND     | *         | 10  | 1.5  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Atrazine                      | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-7

Lab Sample ID: 480-155596-5

Date Collected: 06/28/19 09:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Phenanthrene                | 0.81   | J B       | 5.0 | 0.44 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 01:41 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 5.8         | T J       | ug/L |   | 2.54 |         | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Unknown                         | 120         | T J       | ug/L |   | 2.83 |         | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Unknown                         | 28          | T J       | ug/L |   | 4.83 |         | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Unknown                         | 2.9         | T J       | ug/L |   | 5.94 |         | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 6.89 |         | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Column Bleed                    | 1.9         | T J       | ug/L |   | 7.77 |         | 07/02/19 15:56 | 07/09/19 01:41 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 106       |           | 41 - 120 | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Fluorobiphenyl     | 102       |           | 48 - 120 | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| 2-Fluorophenol       | 63        |           | 35 - 120 | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Nitrobenzene-d5      | 92        |           | 46 - 120 | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| Phenol-d5            | 41        |           | 22 - 120 | 07/02/19 15:56 | 07/09/19 01:41 | 1       |
| p-Terphenyl-d14      | 78        |           | 59 - 136 | 07/02/19 15:56 | 07/09/19 01:41 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.067  |           | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:58 | 1       |
| Lead    | 0.0041 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 20:58 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-8R

Lab Sample ID: 480-155596-6

Date Collected: 06/28/19 10:45

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 2.0 | 1.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 2.0 | 0.42 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 2.0 | 0.62 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,1,2-Trichloroethane                 | ND     |           | 2.0 | 0.46 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,1-Dichloroethane                    | ND     |           | 2.0 | 0.76 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,1-Dichloroethene                    | ND     |           | 2.0 | 0.58 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,2,4-Trichlorobenzene                | ND     |           | 2.0 | 0.82 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 2.0 | 0.78 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,2-Dibromoethane                     | ND     |           | 2.0 | 1.5  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,2-Dichlorobenzene                   | ND     |           | 2.0 | 1.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,2-Dichloroethane                    | ND     |           | 2.0 | 0.42 | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,2-Dichloropropane                   | ND     |           | 2.0 | 1.4  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,3-Dichlorobenzene                   | ND     |           | 2.0 | 1.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 1,4-Dichlorobenzene                   | ND     |           | 2.0 | 1.7  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 2-Butanone (MEK)                      | ND     |           | 20  | 2.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 2-Hexanone                            | ND     |           | 10  | 2.5  | ug/L |   |          | 07/08/19 14:16 | 2       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 10  | 4.2  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Acetone                               | ND     |           | 20  | 6.0  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Benzene                               | ND     |           | 2.0 | 0.82 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Bromodichloromethane                  | ND     |           | 2.0 | 0.78 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Bromoform                             | ND     |           | 2.0 | 0.52 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Bromomethane                          | ND     |           | 2.0 | 1.4  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Carbon disulfide                      | ND     |           | 2.0 | 0.38 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Carbon tetrachloride                  | ND     |           | 2.0 | 0.54 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Chlorobenzene                         | ND     |           | 2.0 | 1.5  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Chloroethane                          | ND     |           | 2.0 | 0.64 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Chloroform                            | ND     |           | 2.0 | 0.68 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Chloromethane                         | ND     |           | 2.0 | 0.70 | ug/L |   |          | 07/08/19 14:16 | 2       |
| cis-1,2-Dichloroethene                | ND     |           | 2.0 | 1.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| cis-1,3-Dichloropropene               | ND     |           | 2.0 | 0.72 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Cyclohexane                           | ND     |           | 2.0 | 0.36 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Dibromochloromethane                  | ND     |           | 2.0 | 0.64 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Dichlorodifluoromethane               | ND     |           | 2.0 | 1.4  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Ethylbenzene                          | ND     |           | 2.0 | 1.5  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Isopropylbenzene                      | ND     |           | 2.0 | 1.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Methyl acetate                        | ND     |           | 5.0 | 2.6  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Methyl tert-butyl ether               | ND     |           | 2.0 | 0.32 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Methylcyclohexane                     | ND     |           | 2.0 | 0.32 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Methylene Chloride                    | ND     |           | 2.0 | 0.88 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Styrene                               | ND     |           | 2.0 | 1.5  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Tetrachloroethene                     | ND     |           | 2.0 | 0.72 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Toluene                               | ND     |           | 2.0 | 1.0  | ug/L |   |          | 07/08/19 14:16 | 2       |
| trans-1,2-Dichloroethene              | ND     |           | 2.0 | 1.8  | ug/L |   |          | 07/08/19 14:16 | 2       |
| trans-1,3-Dichloropropene             | ND     |           | 2.0 | 0.74 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Trichloroethene                       | ND     |           | 2.0 | 0.92 | ug/L |   |          | 07/08/19 14:16 | 2       |
| Trichlorofluoromethane                | ND     |           | 2.0 | 1.8  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Vinyl chloride                        | ND     |           | 2.0 | 1.8  | ug/L |   |          | 07/08/19 14:16 | 2       |
| Xylenes, Total                        | ND     |           | 4.0 | 1.3  | ug/L |   |          | 07/08/19 14:16 | 2       |
| n-Butylbenzene                        | ND     |           | 2.0 | 1.3  | ug/L |   |          | 07/08/19 14:16 | 2       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-8R

Lab Sample ID: 480-155596-6

Date Collected: 06/28/19 10:45

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 2.0 | 1.5 | ug/L |   |          | 07/08/19 14:16 | 2       |
| sec-Butylbenzene       | ND     |           | 2.0 | 1.5 | ug/L |   |          | 07/08/19 14:16 | 2       |
| tert-Butylbenzene      | ND     |           | 2.0 | 1.6 | ug/L |   |          | 07/08/19 14:16 | 2       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 07/08/19 14:16 | 2       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 77 - 120 |          | 07/08/19 14:16 | 2       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 73 - 120 |          | 07/08/19 14:16 | 2       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 07/08/19 14:16 | 2       |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2,4,6-Trichlorophenol         | ND     | *         | 5.0 | 0.61 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2,4-Dimethylphenol            | 0.93   | J         | 5.0 | 0.50 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     | *         | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 4-Nitrophenol                 | ND     | *         | 10  | 1.5  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Atrazine                      | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |

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# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-8R

Lab Sample ID: 480-155596-6

Date Collected: 06/28/19 10:45

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Phenanthrene                | 0.71   | J B       | 5.0 | 0.44 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:09 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No.  | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|----------|----------------|----------------|---------|
| Unknown                         | 2.8         | T J       | ug/L |   | 2.44 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 2.1         | T J       | ug/L |   | 2.75 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 90          | T J       | ug/L |   | 2.82 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 3.6         | T J       | ug/L |   | 3.61 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 2.5         | T J       | ug/L |   | 4.75 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 23          | T J       | ug/L |   | 4.83 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 1-Methylcyclohexanol            | 6.1         | T J N     | ug/L |   | 5.40 | 590-67-0 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 5.79 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 2.9         | T J       | ug/L |   | 5.94 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 1.9         | T J       | ug/L |   | 6.72 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Column Bleed                    | 2.1         | T J       | ug/L |   | 6.89 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 2.3         | T J       | ug/L |   | 7.77 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 9.49 |          | 07/02/19 15:56 | 07/09/19 02:09 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 116       |           | 41 - 120 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Fluorobiphenyl     | 99        |           | 48 - 120 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| 2-Fluorophenol       | 58        |           | 35 - 120 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| Nitrobenzene-d5      | 84        |           | 46 - 120 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: MW-8R**

**Date Collected: 06/28/19 10:45**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-6**

**Matrix: Water**

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

| Surrogate       | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------|-----------|-----------|----------|----------------|----------------|---------|
| Phenol-d5       | 37        |           | 22 - 120 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |
| p-Terphenyl-d14 | 59        |           | 59 - 136 | 07/02/19 15:56 | 07/09/19 02:09 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0059 | J         | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 21:02 | 1       |
| Lead    | 0.0078 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 21:02 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-14

Lab Sample ID: 480-155596-7

Date Collected: 06/28/19 12:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/08/19 14:40 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/08/19 14:40 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 07/08/19 14:40 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 07/08/19 14:40 | 1       |
| Acetone                               | ND     |           | 10  | 3.0  | ug/L |   |          | 07/08/19 14:40 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 07/08/19 14:40 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 14:40 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Cyclohexane                           | ND     |           | 1.0 | 0.18 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/08/19 14:40 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Methylcyclohexane                     | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/08/19 14:40 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 14:40 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 14:40 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/08/19 14:40 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/08/19 14:40 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-14

Lab Sample ID: 480-155596-7

Date Collected: 06/28/19 12:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 14:40 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 14:40 | 1       |
| tert-Butylbenzene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 14:40 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 07/08/19 14:40 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 77 - 120 |          | 07/08/19 14:40 | 1       |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 73 - 120 |          | 07/08/19 14:40 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 80 - 120 |          | 07/08/19 14:40 | 1       |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2,4,6-Trichlorophenol         | ND     | *         | 5.0 | 0.61 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2,4-Dimethylphenol            | ND     |           | 5.0 | 0.50 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     | *         | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 4-Nitrophenol                 | ND     | *         | 10  | 1.5  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Atrazine                      | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: MW-14

Lab Sample ID: 480-155596-7

Date Collected: 06/28/19 12:15

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Phenanthrene                | 0.90   | J B       | 5.0 | 0.44 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 02:37 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 20          | T J       | ug/L |   | 2.56 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Unknown                         | 120         | T J       | ug/L |   | 2.82 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 2.89 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Unknown                         | 30          | T J       | ug/L |   | 4.83 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Unknown                         | 4.3         | T J       | ug/L |   | 5.93 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Column Bleed                    | 2.6         | T J       | ug/L |   | 6.89 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Unknown                         | 2.1         | T J       | ug/L |   | 7.77 |         | 07/02/19 15:56 | 07/09/19 02:37 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 107       |           | 41 - 120 | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Fluorobiphenyl     | 100       |           | 48 - 120 | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| 2-Fluorophenol       | 62        |           | 35 - 120 | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Nitrobenzene-d5      | 85        |           | 46 - 120 | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| Phenol-d5            | 40        |           | 22 - 120 | 07/02/19 15:56 | 07/09/19 02:37 | 1       |
| p-Terphenyl-d14      | 61        |           | 59 - 136 | 07/02/19 15:56 | 07/09/19 02:37 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.066  |           | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 21:06 | 1       |

Eurofins TestAmerica, Buffalo

## Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: MW-14**

**Date Collected: 06/28/19 12:15**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-7**

**Matrix: Water**

**Method: 6010C - Metals (ICP) (Continued)**

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.0032 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 21:06 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-155596-8

Date Collected: 06/28/19 11:05

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/09/19 11:31 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/09/19 11:31 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 07/09/19 11:31 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 07/09/19 11:31 | 1       |
| Acetone                               | 3.5    | J         | 10  | 3.0  | ug/L |   |          | 07/09/19 11:31 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 07/09/19 11:31 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/09/19 11:31 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Cyclohexane                           | 20     |           | 1.0 | 0.18 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/09/19 11:31 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Methylcyclohexane                     | 33     |           | 1.0 | 0.16 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/09/19 11:31 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/09/19 11:31 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/09/19 11:31 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/09/19 11:31 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/09/19 11:31 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-155596-8

Date Collected: 06/28/19 11:05

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/09/19 11:31 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/09/19 11:31 | 1       |
| tert-Butylbenzene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/09/19 11:31 | 1       |

| Tentatively Identified Compound    | Est. Result | Qualifier | Unit | D | RT    | CAS No.   | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-------------|-----------|------|---|-------|-----------|----------|----------------|---------|
| Unknown                            | 4.0         | T J       | ug/L |   | 5.10  |           |          | 07/09/19 11:31 | 1       |
| Unknown                            | 4.6         | T J       | ug/L |   | 5.37  |           |          | 07/09/19 11:31 | 1       |
| Unknown                            | 2.8         | T J       | ug/L |   | 6.24  |           |          | 07/09/19 11:31 | 1       |
| Cyclohexane, 1,3-dimethyl-, cis-   | 8.1         | T J N     | ug/L |   | 6.95  | 638-04-0  |          | 07/09/19 11:31 | 1       |
| Cyclohexane, 1,2-dimethyl-, trans- | 5.4         | T J N     | ug/L |   | 7.32  | 6876-23-9 |          | 07/09/19 11:31 | 1       |
| Cyclohexane, 1,4-dimethyl-         | 3.7         | T J N     | ug/L |   | 7.44  | 589-90-2  |          | 07/09/19 11:31 | 1       |
| Unknown                            | 2.6         | T J       | ug/L |   | 12.36 |           |          | 07/09/19 11:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 77 - 120 |          | 07/09/19 11:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 73 - 120 |          | 07/09/19 11:31 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 80 - 120 |          | 07/09/19 11:31 | 1       |

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2,4,6-Trichlorophenol       | ND     | *         | 5.0 | 0.61 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2,4-Dichlorophenol          | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2,4-Dimethylphenol          | ND     |           | 5.0 | 0.50 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2,4-Dinitrophenol           | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2,4-Dinitrotoluene          | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2,6-Dinitrotoluene          | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Chloronaphthalene         | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Chlorophenol              | ND     |           | 5.0 | 0.53 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Methylnaphthalene         | ND     |           | 5.0 | 0.60 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Methylphenol              | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Nitroaniline              | ND     |           | 10  | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Nitrophenol               | ND     |           | 5.0 | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 3,3'-Dichlorobenzidine      | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 3-Nitroaniline              | ND     |           | 10  | 0.48 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND     | *         | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Bromophenyl phenyl ether  | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Chloro-3-methylphenol     | ND     |           | 5.0 | 0.45 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Chloroaniline             | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Chlorophenyl phenyl ether | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Methylphenol              | ND     |           | 10  | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Nitroaniline              | ND     |           | 10  | 0.25 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 4-Nitrophenol               | ND     | *         | 10  | 1.5  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Acenaphthene                | ND     |           | 5.0 | 0.41 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Acenaphthylene              | ND     |           | 5.0 | 0.38 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Acetophenone                | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Anthracene                  | ND     |           | 5.0 | 0.28 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Atrazine                    | ND     |           | 5.0 | 0.46 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Benzaldehyde                | ND     |           | 5.0 | 0.27 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Benzo(a)anthracene          | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |

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# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-155596-8

Date Collected: 06/28/19 11:05

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Bis(2-chloroethoxy)methane    | ND     |           | 5.0 | 0.35 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Bis(2-chloroethyl)ether       | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Butyl benzyl phthalate        | ND     |           | 5.0 | 1.0  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Caprolactam                   | ND     |           | 5.0 | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Carbazole                     | ND     |           | 5.0 | 0.30 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Chrysene                      | ND     |           | 5.0 | 0.33 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Dibenz(a,h)anthracene         | ND     |           | 5.0 | 0.42 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Dibenzofuran                  | ND     |           | 10  | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Diethyl phthalate             | ND     |           | 5.0 | 0.22 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Dimethyl phthalate            | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Di-n-butyl phthalate          | ND     |           | 5.0 | 0.31 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Di-n-octyl phthalate          | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Fluoranthene                  | ND     |           | 5.0 | 0.40 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Fluorene                      | ND     |           | 5.0 | 0.36 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Hexachlorobenzene             | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Hexachlorobutadiene           | ND     |           | 5.0 | 0.68 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Hexachlorocyclopentadiene     | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Hexachloroethane              | ND     |           | 5.0 | 0.59 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 5.0 | 0.47 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Isophorone                    | ND     |           | 5.0 | 0.43 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Naphthalene                   | ND     |           | 5.0 | 0.76 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Nitrobenzene                  | ND     |           | 5.0 | 0.29 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| N-Nitrosodi-n-propylamine     | ND     |           | 5.0 | 0.54 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| N-Nitrosodiphenylamine        | ND     |           | 5.0 | 0.51 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Pentachlorophenol             | ND     |           | 10  | 2.2  | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Phenanthrene                  | 0.90   | J B       | 5.0 | 0.44 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Phenol                        | ND     |           | 5.0 | 0.39 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Pyrene                        | ND     |           | 5.0 | 0.34 | ug/L |   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT    | CAS No.   | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|-------|-----------|----------------|----------------|---------|
| Unknown                         | 1.7         | T J       | ug/L |   | 2.67  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 110         | T J       | ug/L |   | 2.82  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 30          | T J       | ug/L |   | 4.83  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 3.6         | T J       | ug/L |   | 5.93  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Benzene, 2-ethyl-1,3-dimethyl-  | 2.0         | T J N     | ug/L |   | 6.73  | 2870-04-4 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 2.3         | T J       | ug/L |   | 6.89  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 2.3         | T J       | ug/L |   | 7.15  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 2.3         | T J       | ug/L |   | 7.77  |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 10.08 |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| n-Hexadecanoic acid             | 2.6         | T J N     | ug/L |   | 10.49 | 57-10-3   | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Unknown                         | 5.4         | T J       | ug/L |   | 11.00 |           | 07/02/19 15:56 | 07/09/19 03:05 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-155596-8**

**Date Collected: 06/28/19 11:05**

**Matrix: Water**

**Date Received: 06/28/19 15:30**

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 104       |           | 41 - 120 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Fluorobiphenyl     | 99        |           | 48 - 120 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| 2-Fluorophenol       | 61        |           | 35 - 120 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Nitrobenzene-d5      | 85        |           | 46 - 120 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| Phenol-d5            | 38        |           | 22 - 120 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |
| p-Terphenyl-d14      | 66        |           | 59 - 136 | 07/02/19 15:56 | 07/09/19 03:05 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.050  |           | 0.015 | 0.0056 | mg/L |   | 07/02/19 07:59 | 07/03/19 21:10 | 1       |
| Lead    | 0.0058 | J         | 0.010 | 0.0030 | mg/L |   | 07/02/19 07:59 | 07/03/19 21:10 | 1       |

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-155596-9

Date Collected: 06/27/19 00:00

Matrix: Water

Date Received: 06/28/19 15:30

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 07/08/19 15:29 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 07/08/19 15:29 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 07/08/19 15:29 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 07/08/19 15:29 | 1       |
| Acetone                               | ND     |           | 10  | 3.0  | ug/L |   |          | 07/08/19 15:29 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 07/08/19 15:29 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 15:29 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Cyclohexane                           | ND     |           | 1.0 | 0.18 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 07/08/19 15:29 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Methylcyclohexane                     | ND     |           | 1.0 | 0.16 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 07/08/19 15:29 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 15:29 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 07/08/19 15:29 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 07/08/19 15:29 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 07/08/19 15:29 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-155596-9**

**Date Collected: 06/27/19 00:00**

**Matrix: Water**

**Date Received: 06/28/19 15:30**

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 15:29 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 07/08/19 15:29 | 1       |
| tert-Butylbenzene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 07/08/19 15:29 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 07/08/19 15:29 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 77 - 120 |          | 07/08/19 15:29 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 07/08/19 15:29 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 80 - 120 |          | 07/08/19 15:29 | 1       |

# Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Client Sample ID: MW-1**

**Date Collected: 06/27/19 10:50**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481020       | 07/06/19 21:35       | AMM     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 481186       | 07/08/19 23:49       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 20:15       | EMB     | TAL BUF |

**Client Sample ID: MW-10**

**Date Collected: 06/27/19 12:15**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481199       | 07/08/19 23:51       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 5               | 481186       | 07/09/19 00:17       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 20:46       | EMB     | TAL BUF |

**Client Sample ID: MW-12R**

**Date Collected: 06/27/19 13:30**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 4               | 481199       | 07/09/19 00:16       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 5               | 481186       | 07/09/19 00:45       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 20:50       | EMB     | TAL BUF |

**Client Sample ID: MW-6R**

**Date Collected: 06/27/19 15:00**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481199       | 07/09/19 00:40       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 481186       | 07/09/19 01:13       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 20:54       | EMB     | TAL BUF |

**Client Sample ID: MW-7**

**Date Collected: 06/28/19 09:15**

**Date Received: 06/28/19 15:30**

**Lab Sample ID: 480-155596-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481060       | 07/08/19 13:52       | AEM     | TAL BUF |

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

## Client Sample ID: MW-7

Date Collected: 06/28/19 09:15

Date Received: 06/28/19 15:30

## Lab Sample ID: 480-155596-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 481186       | 07/09/19 01:41       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 20:58       | EMB     | TAL BUF |

## Client Sample ID: MW-8R

Date Collected: 06/28/19 10:45

Date Received: 06/28/19 15:30

## Lab Sample ID: 480-155596-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 2               | 481060       | 07/08/19 14:16       | AEM     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 481186       | 07/09/19 02:09       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 21:02       | EMB     | TAL BUF |

## Client Sample ID: MW-14

Date Collected: 06/28/19 12:15

Date Received: 06/28/19 15:30

## Lab Sample ID: 480-155596-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481060       | 07/08/19 14:40       | AEM     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 481186       | 07/09/19 02:37       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 21:06       | EMB     | TAL BUF |

## Client Sample ID: BLIND DUP

Date Collected: 06/28/19 11:05

Date Received: 06/28/19 15:30

## Lab Sample ID: 480-155596-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481225       | 07/09/19 11:31       | AEM     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 480622       | 07/02/19 15:56       | ATG     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 481186       | 07/09/19 03:05       | RJS     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 480374       | 07/02/19 07:59       | EMB     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 480899       | 07/03/19 21:10       | EMB     | TAL BUF |

## Client Sample ID: TRIP BLANK

Date Collected: 06/27/19 00:00

Date Received: 06/28/19 15:30

## Lab Sample ID: 480-155596-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 481060       | 07/08/19 15:29       | AEM     | TAL BUF |

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

|    |
|----|
| 1  |
| 2  |
| 3  |
| 4  |
| 5  |
| 6  |
| 7  |
| 8  |
| 9  |
| 10 |
| 11 |

## Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

### Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-20        |

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## Method Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

| Method | Method Description                           | Protocol | Laboratory |
|--------|----------------------------------------------|----------|------------|
| 8260C  | Volatile Organic Compounds by GC/MS          | SW846    | TAL BUF    |
| 8270D  | Semivolatile Organic Compounds (GC/MS)       | SW846    | TAL BUF    |
| 6010C  | Metals (ICP)                                 | SW846    | TAL BUF    |
| 3005A  | Preparation, Total Metals                    | SW846    | TAL BUF    |
| 3510C  | Liquid-Liquid Extraction (Separatory Funnel) | SW846    | TAL BUF    |
| 5030C  | Purge and Trap                               | SW846    | TAL BUF    |

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - Olean Solar Land, LLC

Job ID: 480-155596-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 480-155596-1  | MW-1             | Water  | 06/27/19 10:50 | 06/28/19 15:30 |          |
| 480-155596-2  | MW-10            | Water  | 06/27/19 12:15 | 06/28/19 15:30 |          |
| 480-155596-3  | MW-12R           | Water  | 06/27/19 13:30 | 06/28/19 15:30 |          |
| 480-155596-4  | MW-6R            | Water  | 06/27/19 15:00 | 06/28/19 15:30 |          |
| 480-155596-5  | MW-7             | Water  | 06/28/19 09:15 | 06/28/19 15:30 |          |
| 480-155596-6  | MW-8R            | Water  | 06/28/19 10:45 | 06/28/19 15:30 |          |
| 480-155596-7  | MW-14            | Water  | 06/28/19 12:15 | 06/28/19 15:30 |          |
| 480-155596-8  | BLIND DUP        | Water  | 06/28/19 11:05 | 06/28/19 15:30 |          |
| 480-155596-9  | TRIP BLANK       | Water  | 06/27/19 00:00 | 06/28/19 15:30 |          |

## Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-155596-1

**Login Number: 155596**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Wallace, Cameron**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified                                                     | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |         |
| Multiphasic samples are not present.                                             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Sampling Company provided.                                                       | True   |         |
| Samples received within 48 hours of sampling.                                    | True   |         |
| Samples requiring field filtration have been filtered in the field.              | True   |         |
| Chlorine Residual checked.                                                       | N/A    |         |



# GROUNDWATER FIELD FORM

Project Name: Homeridae (231 - 251 Homer St.)

Date: 12-12-19

Location: Olean, NY

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No. MW - 1</b>      |                     |                       | Diameter (inches): 2"              |                |         | Sample Date / Time: 12-12-19 1500                                                                                                |           |          |                    |
|-----------------------------|---------------------|-----------------------|------------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|--------------------|
| Product Depth (ftTOR): -    |                     |                       | Water Column (ft): 9.01            |                |         | DTW when sampled: 13.92                                                                                                          |           |          |                    |
| DTW (static) (ftTOR): 13.86 |                     |                       | One Well Volume (gal): 1.5 gal     |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                    |
| Total Depth (ftTOR): 22.87  |                     |                       | Total Volume Purged (gal): 5.5 gal |                |         | Purge Method: TYPHOON                                                                                                            |           |          |                    |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons) | pH (units)                         | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor  |
| 1340                        | 0 Initial           | 0                     | 6.54                               | 11.0           | 1194    | 22.4                                                                                                                             | 3.14      | -90      | VERY CLEAR         |
| 1345                        | 1 14.08             | 0.5                   | 6.50                               | 11.8           | 1117    | 13.8                                                                                                                             | 3.62      | -85      | PETRO ODOR         |
| 1400                        | 2 14.19             | 1                     | 6.51                               | 11.7           | 1092    | 14.1                                                                                                                             | 2.90      | -87      |                    |
| 1405                        | 3 14.08             | 2                     | 6.54                               | 12.0           | 1064    | 14.8                                                                                                                             | 2.82      | -88      | VERY CLEAR         |
| 1415                        | 4 13.95             | 2.5                   | 6.55                               | 12.1           | 1050    | 14.1                                                                                                                             | 2.68      | -88      | -Musty, Petro odor |
| 1425                        | 5 13.96             | 3                     | 6.56                               | 12.1           | 1031    | 13.2                                                                                                                             |           | -87      |                    |
| 1435                        | 6 13.93             | 4                     | 6.56                               | 12.0           | 1030    | 13.5                                                                                                                             |           | -86      |                    |
| 1445                        | 7 13.92             | 4.5                   | 6.57                               | 12.0           | 1024    | 12.8                                                                                                                             | 2.62      | -88      |                    |
| 8                           |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                    |
| 9                           |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                    |
| 10                          |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                    |
| <b>Sample Information:</b>  |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                    |
| 1450                        | S1 13.92            | 5                     | 6.56                               | 12.0           | 1025    | 12                                                                                                                               | 2.54      | -87      | Clear Musty        |
| 1500                        | S2 13.92            | 5.5                   | 6.57                               | 12.1           | 1018    | 12                                                                                                                               | 2.58      | -86      | PETRO ODOR         |

| <b>Well No. MW - 6R</b>     |                     |                       | Diameter (inches): 2"            |                |         | Sample Date / Time: 12-12-19                                                                                                     |           |          |                        |
|-----------------------------|---------------------|-----------------------|----------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|------------------------|
| Product Depth (ftTOR): -    |                     |                       | Water Column (ft): 6.24          |                |         | DTW when sampled: 17.12                                                                                                          |           |          |                        |
| DTW (static) (ftTOR): 14.96 |                     |                       | One Well Volume (gal): 1.0 gal   |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                        |
| Total Depth (ftTOR): 21.20  |                     |                       | Total Volume Purged (gal): 5 gal |                |         | Purge Method:                                                                                                                    |           |          |                        |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons) | pH (units)                       | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor      |
| 1045                        | 0 Initial           | 0                     | 6.10                             | 10.5           | 1615    | 65.7                                                                                                                             | 1.78      | -95      | Grey Turbidity / Petro |
| 1055                        | 1 16.04             | 1                     | 6.20                             | 10.3           | 1608    | 48                                                                                                                               | 1.64      | -96      |                        |
| 1105                        | 2 12.04             | 2                     | 6.34                             | 10.7           | 1621    | 29                                                                                                                               | 1.72      | -96      |                        |
| 1115                        | 3 17.98             | 2.5                   | 6.39                             | 11.4           | 1631    | 31                                                                                                                               | 1.37      | -100     | Clear / Petro odor     |
| 1125                        | 4 17.28             | 3                     | 6.47                             | 11.5           | 1627    | 29                                                                                                                               | 1.16      | -101     |                        |
| 1130                        | 5 17.17             | 4                     | 6.51                             | 11.7           | 1620    | 30                                                                                                                               | 1.12      | -103     |                        |
| 6                           |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                        |
| 7                           |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                        |
| 8                           |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                        |
| 9                           |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                        |
| 10                          |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                        |
| <b>Sample Information:</b>  |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                        |
| 1135                        | S1 17.12            | 4.5                   | 6.52                             | 11.7           | 1610    | 30                                                                                                                               | 1.02      | -104     | Clear / Light Petro    |
| 1145                        | S2 17.12            | 5                     | 6.61                             | 11.3           | 1605    | 14.8                                                                                                                             | 0.90      | -104     |                        |

**REMARKS:** \*MW-6R - 0.20" of Product on top of water in well. CD uses bailer to extract product, then puts absorbent sock in well... comes back down. Cannot to sample - NO OIL.

Note: All water level measurements are in feet, distance from top of riser.

## Volume Calculation

| Diam. | Vol. (g/ft) |
|-------|-------------|
| 1"    | 0.041       |
| 2"    | 0.163       |
| 4"    | 0.653       |
| 6"    | 1.469       |

## Stabilization Criteria

| Parameter | Criteria   |
|-----------|------------|
| pH        | ± 0.1 unit |
| SC        | ± 3%       |
| Turbidity | ± 10%      |
| DO        | ± 0.3 mg/L |
| ORP       | ± 10 mV    |

# GROUNDWATER FIELD FORM

Project Name: Homeridae (231 - 251 Homer St.)

Date: 12-13-19

Location: Olean, NY

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No. MW - 7</b>     |                     |                       | Diameter (inches): 2"              |                |         | Sample Date / Time: 12-13-19                                                                                                     |           |          |                      |
|----------------------------|---------------------|-----------------------|------------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------------------|
| Product Depth (ftTOR): -   |                     |                       | Water Column (ft): 6.62            |                |         | DTW when sampled: 10.25                                                                                                          |           |          |                      |
| DTW (static) (ftTOR): 9.90 |                     |                       | One Well Volume (gal): 1.1         |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                      |
| Total Depth (ftTOR): 16.52 |                     |                       | Total Volume Purged (gal): 4.5 gal |                |         | Purge Method: PARASTATIC Pump ***                                                                                                |           |          |                      |
| Time                       | Water Level (ftTOR) | Acc. Volume (gallons) | pH (units)                         | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor    |
| 0930                       | Initial             | 0                     | 6.69                               | 10.1           | 1301    | 29                                                                                                                               | NA        | -87      | Clear, Pinery Cation |
| 0940                       | 9.83                | .5                    | 6.71                               | 10.1           | 1297    | 41                                                                                                                               | NA        | -82      |                      |
| 0950                       | 9.90                | 1                     | 6.68                               | 10.2           | 1287    | 31                                                                                                                               |           | -79      |                      |
| 1000                       | 9.98                | 1.5                   | 6.80                               | 10.3           | 1279    | 32.5                                                                                                                             |           | -79      | Clear, Cation        |
| 1015                       | 10.02               | 2                     | 6.81                               | 10.2           | 1281    | 31                                                                                                                               |           | -75      | Pine Odor            |
| 1025                       | 10.10               | 2.5                   | 6.81                               | 10.7           | 1284    | 24.8                                                                                                                             | 2.60      | -75      |                      |
| 1035                       | 10.13               | 3                     | 6.80                               | 11.0           | 1290    | 21.3                                                                                                                             | 2.34      | -74      |                      |
| 7                          |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                      |
| 8                          |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                      |
| 9                          |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                      |
| 10                         |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                      |
| <b>Sample Information:</b> |                     |                       |                                    |                |         |                                                                                                                                  |           |          |                      |
| 1045                       | S1 10.15            | 3.5                   | 6.82                               | 11.1           | 1291    | 16.3                                                                                                                             | 1.80      | -76      | Clear                |
| 1055                       | S2 10.25            | 4.5                   | 6.83                               | 11.4           | 1291    | 16.1                                                                                                                             | 1.12      | -75      | Light Odor           |

| <b>Well No. MW - 8R</b>     |                     |                       | Diameter (inches): 2"        |                |         | Sample Date / Time: 12-13-19 1235                                                                                                |           |          |                   |
|-----------------------------|---------------------|-----------------------|------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|-------------------|
| Product Depth (ftTOR): -    |                     |                       | Water Column (ft): 12.47     |                |         | DTW when sampled: 11.42                                                                                                          |           |          |                   |
| DTW (static) (ftTOR): 11.28 |                     |                       | One Well Volume (gal): 2.50L |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                   |
| Total Depth (ftTOR): 23.72  |                     |                       | Total Volume Purged (gal): 7 |                |         | Purge Method: Typhoon                                                                                                            |           |          |                   |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons) | pH (units)                   | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1115                        | Initial             | 0                     | 6.35                         | 9.9            | 3119    | 893                                                                                                                              | 4.13      | -40      | Grey, Turbid      |
| 1125                        | 11.21               | 1                     | 6.29                         | 10.4           | 3107    | 325                                                                                                                              | 4.36      | -35      | SWIFT CATION      |
| 1135                        | 11.29               | 2                     | 6.23                         | 10.8           | 3076    | 227                                                                                                                              | 4.86      | -34      |                   |
| 1145                        | 11.32               | 3                     | 6.23                         | 11.1           | 3058    | 95.3                                                                                                                             | 4.34      | -35      | Light Grey        |
| 1155                        | 11.36               | 4                     | 6.22                         | 11.3           | 3037    | 35.2                                                                                                                             | 3.86      | -37      | SWIFT CATION      |
| 1205                        | 11.40               | 5                     | 6.24                         | 11.4           | 309     | 21.7                                                                                                                             | 2.43      | -41      |                   |
| 6                           |                     |                       |                              |                |         |                                                                                                                                  |           |          |                   |
| 7                           |                     |                       |                              |                |         |                                                                                                                                  |           |          |                   |
| 8                           |                     |                       |                              |                |         |                                                                                                                                  |           |          |                   |
| 9                           |                     |                       |                              |                |         |                                                                                                                                  |           |          |                   |
| 10                          |                     |                       |                              |                |         |                                                                                                                                  |           |          |                   |
| <b>Sample Information:</b>  |                     |                       |                              |                |         |                                                                                                                                  |           |          |                   |
| 1220                        | S1 11.42            | 6                     | 6.23                         | 11.1           | 2995    | 18.5                                                                                                                             | 1.60      | -41      | Clear             |
| 1230                        | S2 11.42            | 7                     | 6.22                         | 11.2           | 2987    | 17.6                                                                                                                             | 1.32      | -39      | SWIFT CATION      |

REMARKS: MW-7 - PARASTATIC Pump used

Note: All water level measurements are in feet, distance from top of riser.

| Volume Calculation |             |
|--------------------|-------------|
| Diam.              | Vol. (g/ft) |
| 1"                 | 0.041       |
| 2"                 | 0.163       |
| 4"                 | 0.653       |
| 6"                 | 1.469       |

| Stabilization Criteria |            |
|------------------------|------------|
| Parameter              | Criteria   |
| pH                     | ± 0.1 unit |
| SC                     | ± 3%       |
| Turbidity              | ± 10%      |
| DO                     | ± 0.3 mg/L |
| ORP                    | ± 10 mV    |

# GROUNDWATER FIELD FORM

Project Name: Homeridae (231 - 251 Homer St.)

Date: 12-12-19

Location: Olean, NY

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No. MW - 10</b>     |                     |                       | Diameter (inches): 2"           |                |         | Sample Date / Time: 12-12-19                                                                                                     |           |          |                          |
|-----------------------------|---------------------|-----------------------|---------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|--------------------------|
| Product Depth (fbTOR): -    |                     |                       | Water Column (ft): 7.18         |                |         | DTW when sampled: 17.99                                                                                                          |           |          |                          |
| DTW (static) (fbTOR): 15.04 |                     |                       | One Well Volume (gal): 1.294L   |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                          |
| Total Depth (fbTOR): 22.22  |                     |                       | Total Volume Purged (gal): 4.25 |                |         | Purge Method: Typhoon                                                                                                            |           |          |                          |
| Time                        | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units)                      | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor        |
| 0815                        | Initial             | 0                     | 5.21                            | 10.3           | 913     | 181                                                                                                                              | 2.45      | -86      | BLACK HUE                |
| 0830                        | 16.15               | 1                     | 6.17                            | 10.7           | 727     | 42                                                                                                                               | 2.12      | -88      | PETRO ODOR               |
| 0840                        | 17.65               | 1.5                   | 6.38                            | 10.7           | 727     | 29                                                                                                                               | 1         | -82      | *Tiny Black Particulates |
| 0855                        | 17.87               | 2                     | 6.44                            | 10.6           | 730     | 26                                                                                                                               |           | -78      | *CLEAR                   |
| 0905                        | 18.05               | 2.5                   | 6.51                            | 10.9           | 734     | 22                                                                                                                               | 1.68      | -76      |                          |
| 0915                        | 18.02               | 3                     | 6.53                            | 10.8           | 735     | 20                                                                                                                               | 1.48      | -76      |                          |
|                             |                     |                       |                                 |                |         |                                                                                                                                  |           |          | CLEAR                    |
|                             |                     |                       |                                 |                |         |                                                                                                                                  |           |          | PETRO ODOR               |
|                             |                     |                       |                                 |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                 |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                 |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                 |                |         |                                                                                                                                  |           |          |                          |
| <b>Sample Information:</b>  |                     |                       |                                 |                |         |                                                                                                                                  |           |          |                          |
| 0930                        | S1 17.99            | 4                     | 6.56                            | 10.6           | 738     | 16                                                                                                                               | 1.38      | -74      |                          |
| 0935                        | S2 17.93            | 4.25                  | 6.57                            | 10.7           | 738     | 14                                                                                                                               | 1.32      | -71      |                          |

| <b>Well No. MW - 12R</b>    |                     |                       | Diameter (inches): 2"            |                |         | Sample Date / Time: 12-12-19                                                                                                     |           |          |                          |
|-----------------------------|---------------------|-----------------------|----------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|--------------------------|
| Product Depth (fbTOR): -    |                     |                       | Water Column (ft): 7.15          |                |         | DTW when sampled: 18.20                                                                                                          |           |          |                          |
| DTW (static) (fbTOR): 17.00 |                     |                       | One Well Volume (gal): 1.174L    |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                          |
| Total Depth (fbTOR): 24.15  |                     |                       | Total Volume Purged (gal): 5.94L |                |         | Purge Method: Typhoon                                                                                                            |           |          |                          |
| Time                        | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units)                       | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor        |
| 0945                        | Initial             | 0                     | 6.60                             | 9.7            | 1217    | 386                                                                                                                              | NA        | -72      | PINE ODOR                |
| 0950                        | 17.85               | 1                     | 6.63                             | 10.0           | 1415    | 178                                                                                                                              | 2.74      | -77      | WHITE / Creamy Turbidity |
| 1000                        | 18.00               | 2                     | 6.67                             | 10.3           | 1477    | 57.9                                                                                                                             | 3.15      | -81      | CLEAR - PINEY            |
| 1005                        | 18.15               | 3                     | 6.70                             | 10.5           | 1498    | 27.3                                                                                                                             | 2.68      | -83      |                          |
| 1015                        | 18.22               | 4                     | 6.72                             | 10.7           | 1552    | 25.6                                                                                                                             | 2.14      | -85      |                          |
|                             |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
|                             |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
| <b>Sample Information:</b>  |                     |                       |                                  |                |         |                                                                                                                                  |           |          |                          |
| 1020                        | S1 18.22            | 4.5                   | 6.77                             | 10.8           | 1630    | 18.2                                                                                                                             | 1.68      | -87      | Clear, Piney             |
| 1030                        | S2 18.2             | 5                     | 6.78                             | 10.8           | 1638    | 17.6                                                                                                                             | 1.62      | -88      | CLEAR ODOR               |

REMARKS: \*\* MW-10 - MS/MSD \*\*

\*\* MW-12R - BLIND DUP



Note: All water level measurements are in feet, distance from top of riser.

## Volume Calculation

| Diam. | Vol. (g/ft) |
|-------|-------------|
| 1"    | 0.041       |
| 2"    | 0.163       |
| 4"    | 0.653       |
| 6"    | 1.469       |

## Stabilization Criteria

| Parameter | Criteria   |
|-----------|------------|
| pH        | ± 0.1 unit |
| SC        | ± 3%       |
| Turbidity | ± 10%      |
| DO        | ± 0.3 mg/L |
| ORP       | ± 10 mV    |

PREPARED BY:

# GROUNDWATER FIELD FORM

Project Name: Homeridae (231 - 251 Homer St.)

Date: 12-13-19

Location: Olean, NY

Project No.: B0362-019-001

Field Team: CFD

| <b>Well No.</b> MW - 14     |                     |                       | Diameter (inches): 2"           |                |         | Sample Date / Time: 12-12-19                                                                                                     |           |          |                   |
|-----------------------------|---------------------|-----------------------|---------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------|-------------------|
| Product Depth (ftTOR): -    |                     |                       | Water Column (ft): 7.74         |                |         | DTW when sampled: 14.35                                                                                                          |           |          |                   |
| DTW (static) (ftTOR): 13.78 |                     |                       | One Well Volume (gal): 1.3      |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample |           |          |                   |
| Total Depth (ftTOR): 21.72  |                     |                       | Total Volume Purged (gal): 54.6 |                |         | Purge Method:                                                                                                                    |           |          |                   |
| Time                        | Water Level (ftTOR) | Acc. Volume (gallons) | pH (units)                      | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                                  | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1215                        | 0 Initial           | 0                     | 6.85                            | 10.5           | 913.3   | 162                                                                                                                              | 2.64      | -91      | Cloudy Turb       |
| 1225                        | 1 13.82             | 1                     | 6.81                            | 10.8           | 896.9   | 109                                                                                                                              | 2.68      | -96      | Light Odor        |
| 1235                        | 2 13.98             | 2                     | 6.85                            | 11.2           | 881.5   | 89                                                                                                                               | 3.02      | -98      |                   |
| 1240                        | 3 14.34             | 2.5                   | 6.86                            | 11.3           | 877     | 79                                                                                                                               | 2.58      | -98      |                   |
| 1245                        | 4 15.14             | 3                     | 6.86                            | 11.4           | 876     | 43.8                                                                                                                             | 2.31      | -97      |                   |
| 1255                        | 5 15.03             | 3.5                   | 6.89                            | 11.1           | 868     | 32.2                                                                                                                             | 2.12      | -99      | Clearer           |
| 1305                        | 6 14.68             | 4                     | 6.89                            | 11.3           | 869     | 30.9                                                                                                                             | 1.62      | -99      | Light Odor        |
|                             | 7                   |                       |                                 |                |         |                                                                                                                                  |           |          |                   |
|                             | 8                   |                       |                                 |                |         |                                                                                                                                  |           |          |                   |
|                             | 9                   |                       |                                 |                |         |                                                                                                                                  |           |          |                   |
|                             | 10                  |                       |                                 |                |         |                                                                                                                                  |           |          |                   |
| <b>Sample Information:</b>  |                     |                       |                                 |                |         |                                                                                                                                  |           |          |                   |
| 1315                        | S1 14.34            | 4.5                   | 6.89                            | 11.6           | 870     | 31.7                                                                                                                             | 1.27      | -97      |                   |
| 1325                        | S2 14.35            | 5                     | 6.90                            | 11.7           | 868     | 28.6                                                                                                                             | 1.13      | -96      |                   |

| <b>Well No.</b>            |                     |                       | Diameter (inches):         |                |         | Sample Date / Time:                                                                                                   |           |          |                   |
|----------------------------|---------------------|-----------------------|----------------------------|----------------|---------|-----------------------------------------------------------------------------------------------------------------------|-----------|----------|-------------------|
| Product Depth (ftTOR):     |                     |                       | Water Column (ft):         |                |         | DTW when sampled:                                                                                                     |           |          |                   |
| DTW (static) (ftTOR):      |                     |                       | One Well Volume (gal):     |                |         | Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample |           |          |                   |
| Total Depth (ftTOR):       |                     |                       | Total Volume Purged (gal): |                |         | Purge Method:                                                                                                         |           |          |                   |
| Time                       | Water Level (ftTOR) | Acc. Volume (gallons) | pH (units)                 | Temp. (deg. C) | SC (uS) | Turbidity (NTU)                                                                                                       | DO (mg/L) | ORP (mV) | Appearance & Odor |
|                            | 0 Initial           |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 1                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 2                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 3                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 4                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 5                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 6                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 7                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 8                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 9                   |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | 10                  |                       |                            |                |         |                                                                                                                       |           |          |                   |
| <b>Sample Information:</b> |                     |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | S1                  |                       |                            |                |         |                                                                                                                       |           |          |                   |
|                            | S2                  |                       |                            |                |         |                                                                                                                       |           |          |                   |

## REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

### Volume Calculation

| Diam. | Vol. (g/ft) |
|-------|-------------|
| 1"    | 0.041       |
| 2"    | 0.163       |
| 4"    | 0.653       |
| 6"    | 1.469       |

### Stabilization Criteria

| Parameter | Criteria   |
|-----------|------------|
| pH        | ± 0.1 unit |
| SC        | ± 3%       |
| Turbidity | ± 10%      |
| DO        | ± 0.3 mg/L |
| ORP       | ± 10 mV    |

## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

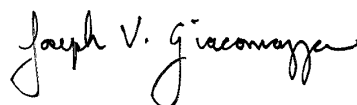
Laboratory Job ID: 480-164301-1

Client Project/Site: Benchmark - 251 Homer St. site  
Revision: 1

**For:**

Homer Street Redevelopment LLC  
2558 Hamburg Turnpike  
Suite 330  
Lackawanna, New York 14218

Attn: Michael A Lesakowski



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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC/MS VOA TICs

| Qualifier | Qualifier Description                                                     |
|-----------|---------------------------------------------------------------------------|
| J         | Indicates an Estimated Value for TICs                                     |
| N         | Presumptive evidence of material.                                         |
| T         | Result is a tentatively identified compound (TIC) and an estimated value. |

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| F2        | MS/MSD RPD exceeds control limits                                                                              |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X         | Surrogate is outside control limits                                                                            |

#### GC/MS Semi VOA TICs

| Qualifier | Qualifier Description                                                     |
|-----------|---------------------------------------------------------------------------|
| J         | Indicates an Estimated Value for TICs                                     |
| N         | Presumptive evidence of material.                                         |
| T         | Result is a tentatively identified compound (TIC) and an estimated value. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Case Narrative

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

## Job ID: 480-164301-1

Laboratory: Eurofins TestAmerica, Buffalo

### Narrative

#### Job Narrative 480-164301-1

### Comments

Revision I - This report was revised to add 4 analytes as per client request.

### Receipt

The samples were received on 12/17/2019 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

### GC/MS VOA

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-1 (480-164301-1), MW-6R (480-164301-2), MW-7 (480-164301-3), MW-8R (480-164301-4), MW-12R (480-164301-6) and BLIND DUP (480-164301-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-510964 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-511210 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Samples were analyzed twice to confirm results, samples confirmed, therefore the data have been reported. The following samples are impacted: MW-10 (480-164301-5[MS]) and MW-10 (480-164301-5[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

Method 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-511072 was outside criteria for the following analyte(s): Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-6R (480-164301-2), MW-8R (480-164301-4), MW-10 (480-164301-5[MSD]) and BLIND DUP (480-164301-8). These results have been reported and qualified.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-510919 and analytical batch 480-511072 recovered outside control limits for the following analytes: Atrazine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-511072 recovered outside acceptance criteria, low biased, for 4-Methylphenol, 2-Methylphenol, Isophorone, Bis(2-chloroethyl)ether, Bis(2-chloroethoxy)methane, Phenol-d5, Phenol, N-Nitrosodi-n-propylamine, and 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-511072 recovered outside acceptance criteria, low biased, for Total cresols, 3-Methylphenol, and 3 & 4 Methylphenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Case Narrative

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

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### Job ID: 480-164301-1 (Continued)

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#### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

##### Organic Prep

Method 3510C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-6R (480-164301-2), MW-12R (480-164301-6) and BLIND DUP (480-164301-8). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-1

Lab Sample ID: 480-164301-1

Date Collected: 12/13/19 13:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 2.0 | 1.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 2.0 | 0.42 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 2.0 | 0.62 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,1,2-Trichloroethane                 | ND     |           | 2.0 | 0.46 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,1-Dichloroethane                    | ND     |           | 2.0 | 0.76 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,1-Dichloroethene                    | ND     |           | 2.0 | 0.58 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,2,4-Trichlorobenzene                | ND     |           | 2.0 | 0.82 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 2.0 | 0.78 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,2-Dibromoethane                     | ND     |           | 2.0 | 1.5  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,2-Dichlorobenzene                   | ND     |           | 2.0 | 1.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,2-Dichloroethane                    | ND     |           | 2.0 | 0.42 | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,2-Dichloropropane                   | ND     |           | 2.0 | 1.4  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,3-Dichlorobenzene                   | ND     |           | 2.0 | 1.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 1,4-Dichlorobenzene                   | ND     |           | 2.0 | 1.7  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 2-Butanone (MEK)                      | ND     |           | 20  | 2.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 2-Hexanone                            | ND     |           | 10  | 2.5  | ug/L |   |          | 12/19/19 21:59 | 2       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 10  | 4.2  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Acetone                               | ND     |           | 20  | 6.0  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Benzene                               | ND     |           | 2.0 | 0.82 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Bromodichloromethane                  | ND     |           | 2.0 | 0.78 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Bromoform                             | ND     |           | 2.0 | 0.52 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Bromomethane                          | ND     |           | 2.0 | 1.4  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Carbon disulfide                      | ND     |           | 2.0 | 0.38 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Carbon tetrachloride                  | ND     |           | 2.0 | 0.54 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Chlorobenzene                         | ND     |           | 2.0 | 1.5  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Chloroethane                          | ND     |           | 2.0 | 0.64 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Chloroform                            | ND     |           | 2.0 | 0.68 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Chloromethane                         | ND     |           | 2.0 | 0.70 | ug/L |   |          | 12/19/19 21:59 | 2       |
| cis-1,2-Dichloroethene                | ND     |           | 2.0 | 1.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| cis-1,3-Dichloropropene               | ND     |           | 2.0 | 0.72 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Cyclohexane                           | 2.3    |           | 2.0 | 0.36 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Dibromochloromethane                  | ND     |           | 2.0 | 0.64 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Dichlorodifluoromethane               | ND     |           | 2.0 | 1.4  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Ethylbenzene                          | ND     |           | 2.0 | 1.5  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Isopropylbenzene                      | ND     |           | 2.0 | 1.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Methyl acetate                        | ND     |           | 5.0 | 2.6  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Methyl tert-butyl ether               | ND     |           | 2.0 | 0.32 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Methylcyclohexane                     | 2.4    |           | 2.0 | 0.32 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Methylene Chloride                    | 1.5 J  |           | 2.0 | 0.88 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Styrene                               | ND     |           | 2.0 | 1.5  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Tetrachloroethene                     | ND     |           | 2.0 | 0.72 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Toluene                               | ND     |           | 2.0 | 1.0  | ug/L |   |          | 12/19/19 21:59 | 2       |
| trans-1,2-Dichloroethene              | ND     |           | 2.0 | 1.8  | ug/L |   |          | 12/19/19 21:59 | 2       |
| trans-1,3-Dichloropropene             | ND     |           | 2.0 | 0.74 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Trichloroethene                       | ND     |           | 2.0 | 0.92 | ug/L |   |          | 12/19/19 21:59 | 2       |
| Trichlorofluoromethane                | ND     |           | 2.0 | 1.8  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Vinyl chloride                        | ND     |           | 2.0 | 1.8  | ug/L |   |          | 12/19/19 21:59 | 2       |
| Xylenes, Total                        | ND     |           | 4.0 | 1.3  | ug/L |   |          | 12/19/19 21:59 | 2       |
| n-Butylbenzene                        | ND     |           | 2.0 | 1.3  | ug/L |   |          | 12/19/19 21:59 | 2       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-1

Lab Sample ID: 480-164301-1

Date Collected: 12/13/19 13:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 2.0 | 1.5 | ug/L |   |          | 12/19/19 21:59 | 2       |
| sec-Butylbenzene       | ND     |           | 2.0 | 1.5 | ug/L |   |          | 12/19/19 21:59 | 2       |
| tert-Butylbenzene      | ND     |           | 2.0 | 1.6 | ug/L |   |          | 12/19/19 21:59 | 2       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 12/19/19 21:59 | 2       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 77 - 120 |          | 12/19/19 21:59 | 2       |
| 4-Bromofluorobenzene (Surr)  | 107       |           | 73 - 120 |          | 12/19/19 21:59 | 2       |
| Toluene-d8 (Surr)            | 95        |           | 80 - 120 |          | 12/19/19 21:59 | 2       |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2,4,6-Trichlorophenol         | ND     |           | 5.0 | 0.61 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2,4-Dimethylphenol            | ND     |           | 5.0 | 0.50 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 4-Nitrophenol                 | ND     |           | 10  | 1.5  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Atrazine                      | ND *   |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-1

Lab Sample ID: 480-164301-1

Date Collected: 12/13/19 13:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Phenanthrene                | ND     |           | 5.0 | 0.44 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:21 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT    | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|-------|---------|----------------|----------------|---------|
| Unknown                         | 3.8         | T J       | ug/L |   | 2.46  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 290         | T J       | ug/L |   | 2.85  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 22          | T J       | ug/L |   | 4.85  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 2.9         | T J       | ug/L |   | 5.95  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 3.0         | T J       | ug/L |   | 6.84  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 2.4         | T J       | ug/L |   | 6.90  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 7.22  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 1.9         | T J       | ug/L |   | 7.54  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 7.64  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 7.78  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 2.2         | T J       | ug/L |   | 9.24  |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Unknown                         | 3.0         | T J       | ug/L |   | 11.02 |         | 12/19/19 15:19 | 12/20/19 15:21 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 119       |           | 41 - 120 | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Fluorobiphenyl     | 97        |           | 48 - 120 | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| 2-Fluorophenol       | 59        |           | 35 - 120 | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Nitrobenzene-d5      | 92        |           | 46 - 120 | 12/19/19 15:19 | 12/20/19 15:21 | 1       |
| Phenol-d5            | 40        |           | 22 - 120 | 12/19/19 15:19 | 12/20/19 15:21 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-1**

**Date Collected: 12/13/19 13:30**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-1**

**Matrix: Water**

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

| Surrogate       | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------|-----------|-----------|----------|----------------|----------------|---------|
| p-Terphenyl-d14 | 79        |           | 60 - 148 | 12/19/19 15:19 | 12/20/19 15:21 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic | 0.049  |           | 0.015 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:24 | 1       |
| Lead    | ND     |           | 0.010 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:24 | 1       |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-6R

Lab Sample ID: 480-164301-2

Date Collected: 12/13/19 11:00

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                               | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 8.0 | 6.6 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 8.0 | 1.7 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 8.0 | 2.5 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,1,2-Trichloroethane                 | ND     |           | 8.0 | 1.8 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,1-Dichloroethane                    | ND     |           | 8.0 | 3.0 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,1-Dichloroethene                    | ND     |           | 8.0 | 2.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,2,4-Trichlorobenzene                | ND     |           | 8.0 | 3.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 8.0 | 3.1 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,2-Dibromoethane                     | ND     |           | 8.0 | 5.8 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,2-Dichlorobenzene                   | ND     |           | 8.0 | 6.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,2-Dichloroethane                    | ND     |           | 8.0 | 1.7 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,2-Dichloropropane                   | ND     |           | 8.0 | 5.8 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,3-Dichlorobenzene                   | ND     |           | 8.0 | 6.2 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 1,4-Dichlorobenzene                   | ND     |           | 8.0 | 6.7 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 2-Butanone (MEK)                      | ND     |           | 80  | 11  | ug/L |   |          | 12/19/19 22:23 | 8       |
| 2-Hexanone                            | ND     |           | 40  | 9.9 | ug/L |   |          | 12/19/19 22:23 | 8       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 40  | 17  | ug/L |   |          | 12/19/19 22:23 | 8       |
| Acetone                               | ND     |           | 80  | 24  | ug/L |   |          | 12/19/19 22:23 | 8       |
| Benzene                               | ND     |           | 8.0 | 3.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Bromodichloromethane                  | ND     |           | 8.0 | 3.1 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Bromoform                             | ND     |           | 8.0 | 2.1 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Bromomethane                          | ND     |           | 8.0 | 5.5 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Carbon disulfide                      | ND     |           | 8.0 | 1.5 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Carbon tetrachloride                  | ND     |           | 8.0 | 2.2 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Chlorobenzene                         | ND     |           | 8.0 | 6.0 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Chloroethane                          | ND     |           | 8.0 | 2.6 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Chloroform                            | ND     |           | 8.0 | 2.7 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Chloromethane                         | ND     |           | 8.0 | 2.8 | ug/L |   |          | 12/19/19 22:23 | 8       |
| cis-1,2-Dichloroethene                | ND     |           | 8.0 | 6.5 | ug/L |   |          | 12/19/19 22:23 | 8       |
| cis-1,3-Dichloropropene               | ND     |           | 8.0 | 2.9 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Cyclohexane                           | 4.8 J  |           | 8.0 | 1.4 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Dibromochloromethane                  | ND     |           | 8.0 | 2.6 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Dichlorodifluoromethane               | ND     |           | 8.0 | 5.4 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Ethylbenzene                          | ND     |           | 8.0 | 5.9 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Isopropylbenzene                      | ND     |           | 8.0 | 6.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Methyl acetate                        | ND     |           | 20  | 10  | ug/L |   |          | 12/19/19 22:23 | 8       |
| Methyl tert-butyl ether               | ND     |           | 8.0 | 1.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Methylcyclohexane                     | ND     |           | 8.0 | 1.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Methylene Chloride                    | 4.2 J  |           | 8.0 | 3.5 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Styrene                               | ND     |           | 8.0 | 5.8 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Tetrachloroethene                     | ND     |           | 8.0 | 2.9 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Toluene                               | ND     |           | 8.0 | 4.1 | ug/L |   |          | 12/19/19 22:23 | 8       |
| trans-1,2-Dichloroethene              | ND     |           | 8.0 | 7.2 | ug/L |   |          | 12/19/19 22:23 | 8       |
| trans-1,3-Dichloropropene             | ND     |           | 8.0 | 3.0 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Trichloroethene                       | ND     |           | 8.0 | 3.7 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Trichlorofluoromethane                | ND     |           | 8.0 | 7.0 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Vinyl chloride                        | ND     |           | 8.0 | 7.2 | ug/L |   |          | 12/19/19 22:23 | 8       |
| Xylenes, Total                        | ND     |           | 16  | 5.3 | ug/L |   |          | 12/19/19 22:23 | 8       |
| n-Butylbenzene                        | ND     |           | 8.0 | 5.1 | ug/L |   |          | 12/19/19 22:23 | 8       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-6R

Lab Sample ID: 480-164301-2

Date Collected: 12/13/19 11:00

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 8.0 | 6.0 | ug/L |   |          | 12/19/19 22:23 | 8       |
| sec-Butylbenzene       | ND     |           | 8.0 | 6.0 | ug/L |   |          | 12/19/19 22:23 | 8       |
| tert-Butylbenzene      | ND     |           | 8.0 | 6.5 | ug/L |   |          | 12/19/19 22:23 | 8       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 12/19/19 22:23 | 8       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 77 - 120 |          | 12/19/19 22:23 | 8       |
| 4-Bromofluorobenzene (Surr)  | 120       |           | 73 - 120 |          | 12/19/19 22:23 | 8       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 12/19/19 22:23 | 8       |

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

| Analyte                       | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2,4,6-Trichlorophenol         | ND     |           | 25 | 3.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2,4-Dimethylphenol            | ND     |           | 25 | 2.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2-Chloronaphthalene           | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2-Chlorophenol                | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2-Methylnaphthalene           | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2-Methylphenol                | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2-Nitroaniline                | ND     |           | 50 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 2-Nitrophenol                 | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 3-Nitroaniline                | ND     |           | 50 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Chloroaniline               | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Methylphenol                | ND     |           | 50 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Nitroaniline                | ND     |           | 50 | 1.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| 4-Nitrophenol                 | ND     |           | 50 | 7.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Acenaphthene                  | ND     |           | 25 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Acenaphthylene                | ND     |           | 25 | 1.9 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Acetophenone                  | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Anthracene                    | ND     |           | 25 | 1.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Atrazine                      | ND *   |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Benzaldehyde                  | ND     |           | 25 | 1.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Benzo(a)anthracene            | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Benzo(a)pyrene                | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 25 | 3.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Biphenyl                      | ND     |           | 25 | 3.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-6R

Lab Sample ID: 480-164301-2

Date Collected: 12/13/19 11:00

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 25 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Butyl benzyl phthalate      | ND     |           | 25 | 5.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Caprolactam                 | ND     |           | 25 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Carbazole                   | ND     |           | 25 | 1.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Chrysene                    | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 25 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Dibenzofuran                | ND     |           | 50 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Diethyl phthalate           | ND     |           | 25 | 1.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Dimethyl phthalate          | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Di-n-butyl phthalate        | ND     |           | 25 | 1.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Di-n-octyl phthalate        | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Fluoranthene                | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Fluorene                    | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Hexachlorobenzene           | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Hexachlorobutadiene         | ND     |           | 25 | 3.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Hexachloroethane            | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Isophorone                  | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Naphthalene                 | ND     |           | 25 | 3.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Nitrobenzene                | ND     |           | 25 | 1.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Pentachlorophenol           | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Phenanthrene                | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Phenol                      | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Pyrene                      | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 15:49 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 19          | T J       | ug/L |   | 2.46 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 1300        | T J       | ug/L |   | 2.85 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 110         | T J       | ug/L |   | 4.85 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 20          | T J       | ug/L |   | 5.27 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 30          | T J       | ug/L |   | 5.30 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 19          | T J       | ug/L |   | 5.51 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 23          | T J       | ug/L |   | 6.13 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 23          | T J       | ug/L |   | 6.17 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 26          | T J       | ug/L |   | 6.33 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 26          | T J       | ug/L |   | 6.86 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Column Bleed                    | 16          | T J       | ug/L |   | 6.90 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 17          | T J       | ug/L |   | 7.04 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 17          | T J       | ug/L |   | 7.47 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 16          | T J       | ug/L |   | 7.56 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 25          | T J       | ug/L |   | 7.58 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 27          | T J       | ug/L |   | 7.67 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 26          | T J       | ug/L |   | 7.79 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 15          | T J       | ug/L |   | 7.97 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |
| Unknown                         | 32          | T J       | ug/L |   | 8.05 |         | 12/19/19 15:19 | 12/20/19 15:49 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-6R**

**Date Collected: 12/13/19 11:00**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-2**

**Matrix: Water**

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

| <i>Tentatively Identified Compound</i> | <i>Est. Result</i> | <i>Qualifier</i> | <i>Unit</i>   | <i>D</i> | <i>RT</i> | <i>CAS No.</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|----------------------------------------|--------------------|------------------|---------------|----------|-----------|----------------|-----------------|-----------------|----------------|
| Unknown                                | 23                 | T J              | ug/L          | -        | 8.56      |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |
| <i>Surrogate</i>                       | <i>%Recovery</i>   | <i>Qualifier</i> | <i>Limits</i> |          |           |                | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 2,4,6-Tribromophenol                   | 122                | X                | 41 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |
| 2-Fluorobiphenyl                       | 93                 |                  | 48 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |
| 2-Fluorophenol                         | 59                 |                  | 35 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |
| Nitrobenzene-d5                        | 94                 |                  | 46 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |
| Phenol-d5                              | 42                 |                  | 22 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |
| p-Terphenyl-d14                        | 86                 |                  | 60 - 148      |          |           |                | 12/19/19 15:19  | 12/20/19 15:49  | 1              |

## Method: 6010C - Metals (ICP)

| <i>Analyte</i> | <i>Result</i> | <i>Qualifier</i> | <i>RL</i> | <i>MDL</i> | <i>Unit</i> | <i>D</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|----------------|---------------|------------------|-----------|------------|-------------|----------|-----------------|-----------------|----------------|
| Arsenic        | 0.035         |                  | 0.015     |            | mg/L        | -        | 12/18/19 09:30  | 12/18/19 22:28  | 1              |
| Lead           | ND            |                  | 0.010     |            | mg/L        | -        | 12/18/19 09:30  | 12/18/19 22:28  | 1              |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-7

Lab Sample ID: 480-164301-3

Date Collected: 12/13/19 14:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 4.0 | 3.3  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 4.0 | 0.84 | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 4.0 | 1.2  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,1,2-Trichloroethane                 | ND     |           | 4.0 | 0.92 | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,1-Dichloroethane                    | ND     |           | 4.0 | 1.5  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,1-Dichloroethene                    | ND     |           | 4.0 | 1.2  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,2,4-Trichlorobenzene                | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,2-Dibromoethane                     | ND     |           | 4.0 | 2.9  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,2-Dichlorobenzene                   | ND     |           | 4.0 | 3.2  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,2-Dichloroethane                    | ND     |           | 4.0 | 0.84 | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,2-Dichloropropane                   | ND     |           | 4.0 | 2.9  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,3-Dichlorobenzene                   | ND     |           | 4.0 | 3.1  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 1,4-Dichlorobenzene                   | ND     |           | 4.0 | 3.4  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 2-Butanone (MEK)                      | ND     |           | 40  | 5.3  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 2-Hexanone                            | ND     |           | 20  | 5.0  | ug/L |   |          | 12/19/19 22:48 | 4       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 20  | 8.4  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Acetone                               | ND     |           | 40  | 12   | ug/L |   |          | 12/19/19 22:48 | 4       |
| Benzene                               | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Bromodichloromethane                  | ND     |           | 4.0 | 1.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Bromoform                             | ND     |           | 4.0 | 1.0  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Bromomethane                          | ND     |           | 4.0 | 2.8  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Carbon disulfide                      | ND     |           | 4.0 | 0.76 | ug/L |   |          | 12/19/19 22:48 | 4       |
| Carbon tetrachloride                  | ND     |           | 4.0 | 1.1  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Chlorobenzene                         | ND     |           | 4.0 | 3.0  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Chloroethane                          | ND     |           | 4.0 | 1.3  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Chloroform                            | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Chloromethane                         | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 22:48 | 4       |
| cis-1,2-Dichloroethene                | ND     |           | 4.0 | 3.2  | ug/L |   |          | 12/19/19 22:48 | 4       |
| cis-1,3-Dichloropropene               | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Cyclohexane                           | ND     |           | 4.0 | 0.72 | ug/L |   |          | 12/19/19 22:48 | 4       |
| Dibromochloromethane                  | ND     |           | 4.0 | 1.3  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Dichlorodifluoromethane               | ND     |           | 4.0 | 2.7  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Ethylbenzene                          | ND     |           | 4.0 | 3.0  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Isopropylbenzene                      | ND     |           | 4.0 | 3.2  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Methyl acetate                        | ND     |           | 10  | 5.2  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Methyl tert-butyl ether               | ND     |           | 4.0 | 0.64 | ug/L |   |          | 12/19/19 22:48 | 4       |
| Methylcyclohexane                     | ND     |           | 4.0 | 0.64 | ug/L |   |          | 12/19/19 22:48 | 4       |
| Methylene Chloride                    | 2.4    | J         | 4.0 | 1.8  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Styrene                               | ND     |           | 4.0 | 2.9  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Tetrachloroethene                     | ND     |           | 4.0 | 1.4  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Toluene                               | ND     |           | 4.0 | 2.0  | ug/L |   |          | 12/19/19 22:48 | 4       |
| trans-1,2-Dichloroethene              | ND     |           | 4.0 | 3.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| trans-1,3-Dichloropropene             | ND     |           | 4.0 | 1.5  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Trichloroethene                       | ND     |           | 4.0 | 1.8  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Trichlorofluoromethane                | ND     |           | 4.0 | 3.5  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Vinyl chloride                        | ND     |           | 4.0 | 3.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| Xylenes, Total                        | ND     |           | 8.0 | 2.6  | ug/L |   |          | 12/19/19 22:48 | 4       |
| n-Butylbenzene                        | ND     |           | 4.0 | 2.6  | ug/L |   |          | 12/19/19 22:48 | 4       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-7

Lab Sample ID: 480-164301-3

Date Collected: 12/13/19 14:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 4.0 | 3.0 | ug/L |   |          | 12/19/19 22:48 | 4       |
| sec-Butylbenzene       | ND     |           | 4.0 | 3.0 | ug/L |   |          | 12/19/19 22:48 | 4       |
| tert-Butylbenzene      | ND     |           | 4.0 | 3.2 | ug/L |   |          | 12/19/19 22:48 | 4       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 12/19/19 22:48 | 4       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 77 - 120 |          | 12/19/19 22:48 | 4       |
| 4-Bromofluorobenzene (Surr)  | 117       |           | 73 - 120 |          | 12/19/19 22:48 | 4       |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 12/19/19 22:48 | 4       |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2,4,6-Trichlorophenol         | ND     |           | 5.0 | 0.61 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2,4-Dimethylphenol            | ND     |           | 5.0 | 0.50 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 4-Nitrophenol                 | ND     |           | 10  | 1.5  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Atrazine                      | ND *   |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-7

Lab Sample ID: 480-164301-3

Date Collected: 12/13/19 14:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Phenanthrene                | ND     |           | 5.0 | 0.44 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:17 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 3.8         | T J       | ug/L |   | 2.46 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 280         | T J       | ug/L |   | 2.84 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 16          | T J       | ug/L |   | 4.85 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 2.7         | T J       | ug/L |   | 5.95 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 2.7         | T J       | ug/L |   | 6.83 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 2.5         | T J       | ug/L |   | 6.90 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 2.4         | T J       | ug/L |   | 7.79 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 8.56 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 9.24 |         | 12/19/19 15:19 | 12/20/19 16:17 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 111       |           | 41 - 120 | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Fluorobiphenyl     | 95        |           | 48 - 120 | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| 2-Fluorophenol       | 60        |           | 35 - 120 | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Nitrobenzene-d5      | 86        |           | 46 - 120 | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| Phenol-d5            | 40        |           | 22 - 120 | 12/19/19 15:19 | 12/20/19 16:17 | 1       |
| p-Terphenyl-d14      | 73        |           | 60 - 148 | 12/19/19 15:19 | 12/20/19 16:17 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-7**

**Date Collected: 12/13/19 14:30**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-3**

**Matrix: Water**

**Method: 6010C - Metals (ICP)**

| Analyte | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic | ND     |           | 0.015 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:32 | 1       |
| Lead    | ND     |           | 0.010 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:32 | 1       |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-8R**

**Lab Sample ID: 480-164301-4**

**Date Collected: 12/13/19 15:30**

**Matrix: Water**

**Date Received: 12/17/19 12:00**

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

| Analyte                               | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 10  | 8.2 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 10  | 2.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 10  | 3.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,1,2-Trichloroethane                 | ND     |           | 10  | 2.3 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,1-Dichloroethane                    | ND     |           | 10  | 3.8 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,1-Dichloroethene                    | ND     |           | 10  | 2.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,2,4-Trichlorobenzene                | ND     |           | 10  | 4.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 10  | 3.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,2-Dibromoethane                     | ND     |           | 10  | 7.3 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,2-Dichlorobenzene                   | ND     |           | 10  | 7.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,2-Dichloroethane                    | ND     |           | 10  | 2.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,2-Dichloropropane                   | ND     |           | 10  | 7.2 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,3-Dichlorobenzene                   | ND     |           | 10  | 7.8 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 1,4-Dichlorobenzene                   | ND     |           | 10  | 8.4 | ug/L |   |          | 12/19/19 23:12 | 10      |
| 2-Butanone (MEK)                      | ND     |           | 100 | 13  | ug/L |   |          | 12/19/19 23:12 | 10      |
| 2-Hexanone                            | ND     |           | 50  | 12  | ug/L |   |          | 12/19/19 23:12 | 10      |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 50  | 21  | ug/L |   |          | 12/19/19 23:12 | 10      |
| Acetone                               | ND     |           | 100 | 30  | ug/L |   |          | 12/19/19 23:12 | 10      |
| Benzene                               | ND     |           | 10  | 4.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Bromodichloromethane                  | ND     |           | 10  | 3.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Bromoform                             | ND     |           | 10  | 2.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Bromomethane                          | ND     |           | 10  | 6.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Carbon disulfide                      | ND     |           | 10  | 1.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Carbon tetrachloride                  | ND     |           | 10  | 2.7 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Chlorobenzene                         | ND     |           | 10  | 7.5 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Chloroethane                          | ND     |           | 10  | 3.2 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Chloroform                            | ND     |           | 10  | 3.4 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Chloromethane                         | ND     |           | 10  | 3.5 | ug/L |   |          | 12/19/19 23:12 | 10      |
| cis-1,2-Dichloroethene                | ND     |           | 10  | 8.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| cis-1,3-Dichloropropene               | ND     |           | 10  | 3.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Cyclohexane                           | ND     |           | 10  | 1.8 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Dibromochloromethane                  | ND     |           | 10  | 3.2 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Dichlorodifluoromethane               | ND     |           | 10  | 6.8 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Ethylbenzene                          | ND     |           | 10  | 7.4 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Isopropylbenzene                      | ND     |           | 10  | 7.9 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Methyl acetate                        | ND     |           | 25  | 13  | ug/L |   |          | 12/19/19 23:12 | 10      |
| Methyl tert-butyl ether               | ND     |           | 10  | 1.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Methylcyclohexane                     | ND     |           | 10  | 1.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Methylene Chloride                    | ND     |           | 10  | 4.4 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Styrene                               | ND     |           | 10  | 7.3 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Tetrachloroethene                     | ND     |           | 10  | 3.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Toluene                               | ND     |           | 10  | 5.1 | ug/L |   |          | 12/19/19 23:12 | 10      |
| trans-1,2-Dichloroethene              | ND     |           | 10  | 9.0 | ug/L |   |          | 12/19/19 23:12 | 10      |
| trans-1,3-Dichloropropene             | ND     |           | 10  | 3.7 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Trichloroethene                       | ND     |           | 10  | 4.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Trichlorofluoromethane                | ND     |           | 10  | 8.8 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Vinyl chloride                        | ND     |           | 10  | 9.0 | ug/L |   |          | 12/19/19 23:12 | 10      |
| Xylenes, Total                        | ND     |           | 20  | 6.6 | ug/L |   |          | 12/19/19 23:12 | 10      |
| n-Butylbenzene                        | ND     |           | 10  | 6.4 | ug/L |   |          | 12/19/19 23:12 | 10      |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-8R

Lab Sample ID: 480-164301-4

Date Collected: 12/13/19 15:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 10 | 7.5 | ug/L |   |          | 12/19/19 23:12 | 10      |
| sec-Butylbenzene       | ND     |           | 10 | 7.5 | ug/L |   |          | 12/19/19 23:12 | 10      |
| tert-Butylbenzene      | ND     |           | 10 | 8.1 | ug/L |   |          | 12/19/19 23:12 | 10      |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 12/19/19 23:12 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 77 - 120 |          | 12/19/19 23:12 | 10      |
| 4-Bromofluorobenzene (Surr)  | 117       |           | 73 - 120 |          | 12/19/19 23:12 | 10      |
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 12/19/19 23:12 | 10      |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2,4,6-Trichlorophenol         | ND     |           | 5.0 | 0.61 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2,4-Dimethylphenol            | 1.4    | J         | 5.0 | 0.50 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 4-Nitrophenol                 | ND     |           | 10  | 1.5  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Atrazine                      | ND     | *         | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-8R

Lab Sample ID: 480-164301-4

Date Collected: 12/13/19 15:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Phenanthrene                | ND     |           | 5.0 | 0.44 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 16:45 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 5.1         | T J       | ug/L |   | 2.47 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 2.73 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 280         | T J       | ug/L |   | 2.86 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 3.6         | T J       | ug/L |   | 3.64 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.2         | T J       | ug/L |   | 4.78 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 19          | T J       | ug/L |   | 4.85 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.1         | T J       | ug/L |   | 4.88 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 6.3         | T J       | ug/L |   | 5.41 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 5.81 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.6         | T J       | ug/L |   | 5.95 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 4.6         | T J       | ug/L |   | 6.84 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.5         | T J       | ug/L |   | 6.91 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 1.8         | T J       | ug/L |   | 7.75 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.3         | T J       | ug/L |   | 7.79 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 9.24 |         | 12/19/19 15:19 | 12/20/19 16:45 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 127       | X         | 41 - 120 | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| 2-Fluorobiphenyl     | 106       |           | 48 - 120 | 12/19/19 15:19 | 12/20/19 16:45 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-8R**

**Date Collected: 12/13/19 15:30**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-4**

**Matrix: Water**

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

| Surrogate       | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorophenol  | 65        |           | 35 - 120 | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Nitrobenzene-d5 | 100       |           | 46 - 120 | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| Phenol-d5       | 43        |           | 22 - 120 | 12/19/19 15:19 | 12/20/19 16:45 | 1       |
| p-Terphenyl-d14 | 73        |           | 60 - 148 | 12/19/19 15:19 | 12/20/19 16:45 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic | ND     |           | 0.015 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:35 | 1       |
| Lead    | ND     |           | 0.010 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:35 | 1       |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-10

Lab Sample ID: 480-164301-5

Date Collected: 12/13/19 08:15

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 12/19/19 23:36 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 12/19/19 23:36 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 12/19/19 23:36 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 12/19/19 23:36 | 1       |
| Acetone                               | 4.2 J  |           | 10  | 3.0  | ug/L |   |          | 12/19/19 23:36 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 12/19/19 23:36 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 12/19/19 23:36 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Cyclohexane                           | ND     |           | 1.0 | 0.18 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 12/19/19 23:36 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Methylcyclohexane                     | ND     |           | 1.0 | 0.16 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 12/19/19 23:36 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/19/19 23:36 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/19/19 23:36 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 12/19/19 23:36 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 12/19/19 23:36 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-10

Lab Sample ID: 480-164301-5

Date Collected: 12/13/19 08:15

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/19/19 23:36 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/19/19 23:36 | 1       |
| tert-Butylbenzene      | 1.3    |           | 1.0 | 0.81 | ug/L |   |          | 12/19/19 23:36 | 1       |

| Tentatively Identified Compound    | Est. Result | Qualifier | Unit | D | RT    | CAS No.   | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-------------|-----------|------|---|-------|-----------|----------|----------------|---------|
| Butane, 2,3-dimethyl-              | 11          | T J N     | ug/L |   | 4.29  | 79-29-8   |          | 12/19/19 23:36 | 1       |
| Pentane, 2,4-dimethyl-             | 6.8         | T J N     | ug/L |   | 5.24  | 108-08-7  |          | 12/19/19 23:36 | 1       |
| Unknown                            | 25          | T J       | ug/L |   | 5.97  |           |          | 12/19/19 23:36 | 1       |
| Cyclopentane, 1,2,4-trimethyl-     | 10          | T J N     | ug/L |   | 7.21  | 2815-58-9 |          | 12/19/19 23:36 | 1       |
| Unknown                            | 7.3         | T J       | ug/L |   | 7.68  |           |          | 12/19/19 23:36 | 1       |
| Cyclohexane, 1,1-dimethyl-         | 7.4         | T J N     | ug/L |   | 8.10  | 590-66-9  |          | 12/19/19 23:36 | 1       |
| Cyclohexane, 1,2-dimethyl-, trans- | 9.2         | T J N     | ug/L |   | 8.28  | 6876-23-9 |          | 12/19/19 23:36 | 1       |
| Cyclohexane, 1,3-dimethyl-, trans- | 5.9         | T J N     | ug/L |   | 8.39  | 2207-03-6 |          | 12/19/19 23:36 | 1       |
| Unknown                            | 5.3         | T J       | ug/L |   | 9.72  |           |          | 12/19/19 23:36 | 1       |
| Unknown                            | 5.1         | T J       | ug/L |   | 10.12 |           |          | 12/19/19 23:36 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 77 - 120 |          | 12/19/19 23:36 | 1       |
| 4-Bromofluorobenzene (Surr)  | 119       |           | 73 - 120 |          | 12/19/19 23:36 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 12/19/19 23:36 | 1       |

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2,4,6-Trichlorophenol       | ND     |           | 5.0 | 0.61 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2,4-Dichlorophenol          | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2,4-Dimethylphenol          | ND     |           | 5.0 | 0.50 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2,4-Dinitrophenol           | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2,4-Dinitrotoluene          | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2,6-Dinitrotoluene          | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Chloronaphthalene         | ND     |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Chlorophenol              | ND     |           | 5.0 | 0.53 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Methylnaphthalene         | ND     |           | 5.0 | 0.60 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Methylphenol              | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Nitroaniline              | ND     |           | 10  | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Nitrophenol               | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 3,3'-Dichlorobenzidine      | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 3-Nitroaniline              | ND F2  |           | 10  | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Bromophenyl phenyl ether  | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Chloro-3-methylphenol     | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Chloroaniline             | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Chlorophenyl phenyl ether | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Methylphenol              | ND     |           | 10  | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Nitroaniline              | ND     |           | 10  | 0.25 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 4-Nitrophenol               | ND     |           | 10  | 1.5  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Acenaphthene                | ND     |           | 5.0 | 0.41 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Acenaphthylene              | ND     |           | 5.0 | 0.38 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Acetophenone                | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Anthracene                  | ND     |           | 5.0 | 0.28 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-10

Lab Sample ID: 480-164301-5

Date Collected: 12/13/19 08:15

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Atrazine                      | ND     | *         | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Bis(2-chloroethoxy)methane    | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Bis(2-chloroethyl)ether       | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Butyl benzyl phthalate        | ND     |           | 5.0 | 1.0  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Caprolactam                   | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Carbazole                     | ND     |           | 5.0 | 0.30 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Chrysene                      | ND     |           | 5.0 | 0.33 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Dibenz(a,h)anthracene         | ND     |           | 5.0 | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Dibenzofuran                  | ND     |           | 10  | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Diethyl phthalate             | 0.37   | J         | 5.0 | 0.22 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Dimethyl phthalate            | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Di-n-butyl phthalate          | ND     |           | 5.0 | 0.31 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Di-n-octyl phthalate          | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Fluoranthene                  | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Fluorene                      | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Hexachlorobenzene             | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Hexachlorobutadiene           | ND     |           | 5.0 | 0.68 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Hexachlorocyclopentadiene     | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Hexachloroethane              | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Isophorone                    | ND     |           | 5.0 | 0.43 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Naphthalene                   | ND     |           | 5.0 | 0.76 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Nitrobenzene                  | ND     |           | 5.0 | 0.29 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| N-Nitrosodi-n-propylamine     | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| N-Nitrosodiphenylamine        | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Pentachlorophenol             | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Phenanthrene                  | ND     |           | 5.0 | 0.44 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Phenol                        | ND     |           | 5.0 | 0.39 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Pyrene                        | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 14:52 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 3.4         | T J       | ug/L |   | 2.48 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 280         | T J       | ug/L |   | 2.86 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 2.0         | T J       | ug/L |   | 4.47 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 23          | T J       | ug/L |   | 4.85 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 1.8         | T J       | ug/L |   | 5.40 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 3.6         | T J       | ug/L |   | 5.51 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 2.4         | T J       | ug/L |   | 5.95 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 3.3         | T J       | ug/L |   | 6.84 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 3.1         | T J       | ug/L |   | 6.91 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 1.7         | T J       | ug/L |   | 7.04 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-10**

**Date Collected: 12/13/19 08:15**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-5**

**Matrix: Water**

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit     | D | RT    | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|----------|---|-------|---------|----------------|----------------|---------|
| Unknown                         | 1.6         | TJ        | ug/L     |   | 7.09  |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 2.2         | TJ        | ug/L     |   | 7.17  |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 3.2         | TJ        | ug/L     |   | 7.79  |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 1.6         | TJ        | ug/L     |   | 9.24  |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 2.1         | TJ        | ug/L     |   | 11.39 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Unknown                         | 2.4         | TJ        | ug/L     |   | 13.96 |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Surrogate                       | %Recovery   | Qualifier | Limits   |   |       |         | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol            | 120         |           | 41 - 120 |   |       |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Fluorobiphenyl                | 98          |           | 48 - 120 |   |       |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| 2-Fluorophenol                  | 64          |           | 35 - 120 |   |       |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Nitrobenzene-d5                 | 96          |           | 46 - 120 |   |       |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| Phenol-d5                       | 40          |           | 22 - 120 |   |       |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |
| p-Terphenyl-d14                 | 64          |           | 60 - 148 |   |       |         | 12/19/19 15:19 | 12/20/19 14:52 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic | ND     |           | 0.015 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:50 | 1       |
| Lead    | ND     |           | 0.010 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 22:50 | 1       |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-12R

Lab Sample ID: 480-164301-6

Date Collected: 12/13/19 09:00

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                               | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 10  | 8.2 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 10  | 2.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 10  | 3.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,1,2-Trichloroethane                 | ND     |           | 10  | 2.3 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,1-Dichloroethane                    | ND     |           | 10  | 3.8 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,1-Dichloroethene                    | ND     |           | 10  | 2.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,2,4-Trichlorobenzene                | ND     |           | 10  | 4.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 10  | 3.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,2-Dibromoethane                     | ND     |           | 10  | 7.3 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,2-Dichlorobenzene                   | ND     |           | 10  | 7.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,2-Dichloroethane                    | ND     |           | 10  | 2.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,2-Dichloropropane                   | ND     |           | 10  | 7.2 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,3-Dichlorobenzene                   | ND     |           | 10  | 7.8 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 1,4-Dichlorobenzene                   | ND     |           | 10  | 8.4 | ug/L |   |          | 12/20/19 00:01 | 10      |
| 2-Butanone (MEK)                      | ND     |           | 100 | 13  | ug/L |   |          | 12/20/19 00:01 | 10      |
| 2-Hexanone                            | ND     |           | 50  | 12  | ug/L |   |          | 12/20/19 00:01 | 10      |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 50  | 21  | ug/L |   |          | 12/20/19 00:01 | 10      |
| Acetone                               | ND     |           | 100 | 30  | ug/L |   |          | 12/20/19 00:01 | 10      |
| Benzene                               | ND     |           | 10  | 4.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Bromodichloromethane                  | ND     |           | 10  | 3.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Bromoform                             | ND     |           | 10  | 2.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Bromomethane                          | ND     |           | 10  | 6.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Carbon disulfide                      | ND     |           | 10  | 1.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Carbon tetrachloride                  | ND     |           | 10  | 2.7 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Chlorobenzene                         | ND     |           | 10  | 7.5 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Chloroethane                          | ND     |           | 10  | 3.2 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Chloroform                            | ND     |           | 10  | 3.4 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Chloromethane                         | ND     |           | 10  | 3.5 | ug/L |   |          | 12/20/19 00:01 | 10      |
| cis-1,2-Dichloroethene                | ND     |           | 10  | 8.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| cis-1,3-Dichloropropene               | ND     |           | 10  | 3.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Cyclohexane                           | 63     |           | 10  | 1.8 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Dibromochloromethane                  | ND     |           | 10  | 3.2 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Dichlorodifluoromethane               | ND     |           | 10  | 6.8 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Ethylbenzene                          | ND     |           | 10  | 7.4 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Isopropylbenzene                      | ND     |           | 10  | 7.9 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Methyl acetate                        | ND     |           | 25  | 13  | ug/L |   |          | 12/20/19 00:01 | 10      |
| Methyl tert-butyl ether               | ND     |           | 10  | 1.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Methylcyclohexane                     | 140    |           | 10  | 1.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Methylene Chloride                    | 5.9 J  |           | 10  | 4.4 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Styrene                               | ND     |           | 10  | 7.3 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Tetrachloroethene                     | ND     |           | 10  | 3.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Toluene                               | ND     |           | 10  | 5.1 | ug/L |   |          | 12/20/19 00:01 | 10      |
| trans-1,2-Dichloroethene              | ND     |           | 10  | 9.0 | ug/L |   |          | 12/20/19 00:01 | 10      |
| trans-1,3-Dichloropropene             | ND     |           | 10  | 3.7 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Trichloroethene                       | ND     |           | 10  | 4.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Trichlorofluoromethane                | ND     |           | 10  | 8.8 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Vinyl chloride                        | ND     |           | 10  | 9.0 | ug/L |   |          | 12/20/19 00:01 | 10      |
| Xylenes, Total                        | ND     |           | 20  | 6.6 | ug/L |   |          | 12/20/19 00:01 | 10      |
| n-Butylbenzene                        | ND     |           | 10  | 6.4 | ug/L |   |          | 12/20/19 00:01 | 10      |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-12R

Lab Sample ID: 480-164301-6

Date Collected: 12/13/19 09:00

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                         | Result      | Qualifier | RL       | MDL | Unit  | D         | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|----------|-----|-------|-----------|----------|----------------|---------|
| 1,2,4-Trimethylbenzene          | ND          |           | 10       | 7.5 | ug/L  |           |          | 12/20/19 00:01 | 10      |
| sec-Butylbenzene                | ND          |           | 10       | 7.5 | ug/L  |           |          | 12/20/19 00:01 | 10      |
| tert-Butylbenzene               | ND          |           | 10       | 8.1 | ug/L  |           |          | 12/20/19 00:01 | 10      |
| Tentatively Identified Compound | Est. Result | Qualifier | Unit     | D   | RT    | CAS No.   | Prepared | Analyzed       | Dil Fac |
| Benzene, 2-ethyl-1,4-dimethyl-  | 30          | T J N     | ug/L     |     | 12.35 | 1758-88-9 |          | 12/20/19 00:01 | 10      |
| Benzene, 1,2,3,4-tetramethyl-   | 31          | T J N     | ug/L     |     | 12.68 | 488-23-3  |          | 12/20/19 00:01 | 10      |
| Benzene, 1,2,4,5-tetramethyl-   | 38          | T J N     | ug/L     |     | 13.10 | 95-93-2   |          | 12/20/19 00:01 | 10      |
| Surrogate                       | %Recovery   | Qualifier | Limits   |     |       |           | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)    | 115         |           | 77 - 120 |     |       |           |          | 12/20/19 00:01 | 10      |
| 4-Bromofluorobenzene (Surr)     | 116         |           | 73 - 120 |     |       |           |          | 12/20/19 00:01 | 10      |
| Toluene-d8 (Surr)               | 99          |           | 80 - 120 |     |       |           |          | 12/20/19 00:01 | 10      |

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

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,4,6-Trichlorophenol       | ND     |           | 25 | 3.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,4-Dichlorophenol          | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,4-Dimethylphenol          | ND     |           | 25 | 2.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,4-Dinitrophenol           | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,4-Dinitrotoluene          | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,6-Dinitrotoluene          | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2-Chloronaphthalene         | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2-Chlorophenol              | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2-Methylnaphthalene         | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2-Methylphenol              | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2-Nitroaniline              | ND     |           | 50 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2-Nitrophenol               | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 3,3'-Dichlorobenzidine      | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 3-Nitroaniline              | ND     |           | 50 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Bromophenyl phenyl ether  | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Chloro-3-methylphenol     | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Chloroaniline             | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Chlorophenyl phenyl ether | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Methylphenol              | ND     |           | 50 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Nitroaniline              | ND     |           | 50 | 1.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Nitrophenol               | ND     |           | 50 | 7.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Acenaphthene                | ND     |           | 25 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Acenaphthylene              | ND     |           | 25 | 1.9 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Acetophenone                | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Anthracene                  | ND     |           | 25 | 1.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Atrazine                    | ND *   |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzaldehyde                | ND     |           | 25 | 1.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzo(a)anthracene          | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzo(a)pyrene              | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzo(b)fluoranthene        | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzo(g,h,i)perylene        | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzo(k)fluoranthene        | ND     |           | 25 | 3.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-12R

Lab Sample ID: 480-164301-6

Date Collected: 12/13/19 09:00

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                       | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Biphenyl                      | ND     |           | 25 | 3.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Bis(2-chloroethoxy)methane    | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Bis(2-chloroethyl)ether       | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 25 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Butyl benzyl phthalate        | ND     |           | 25 | 5.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Caprolactam                   | ND     |           | 25 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Carbazole                     | ND     |           | 25 | 1.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Chrysene                      | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Dibenz(a,h)anthracene         | ND     |           | 25 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Dibenzofuran                  | ND     |           | 50 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Diethyl phthalate             | ND     |           | 25 | 1.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Dimethyl phthalate            | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Di-n-butyl phthalate          | ND     |           | 25 | 1.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Di-n-octyl phthalate          | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Fluoranthene                  | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Fluorene                      | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Hexachlorobenzene             | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Hexachlorobutadiene           | ND     |           | 25 | 3.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Hexachlorocyclopentadiene     | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Hexachloroethane              | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Isophorone                    | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Naphthalene                   | ND     |           | 25 | 3.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Nitrobenzene                  | ND     |           | 25 | 1.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| N-Nitrosodi-n-propylamine     | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| N-Nitrosodiphenylamine        | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Pentachlorophenol             | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Phenanthrene                  | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Phenol                        | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Pyrene                        | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |

| Tentatively Identified Compound                  | Est. Result | Qualifier | Unit | D | RT   | CAS No.      | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------|-------------|-----------|------|---|------|--------------|----------------|----------------|---------|
| Unknown                                          | 18          | T J       | ug/L |   | 2.46 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 1300        | T J       | ug/L |   | 2.84 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 120         | T J       | ug/L |   | 4.85 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 4-Nitro-4'-chlorodiphenylsulphoxide              | 13          | T J N     | ug/L |   | 5.95 | 24535-53-3   | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzene, 1-ethyl-2,4-dimethyl-                   | 19          | T J N     | ug/L |   | 6.75 | 874-41-9     | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 13          | T J       | ug/L |   | 6.85 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 9.9         | T J       | ug/L |   | 6.90 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzene, 1,2,4,5-tetramethyl-                    | 15          | T J N     | ug/L |   | 6.95 | 95-93-2      | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 8.7         | T J       | ug/L |   | 7.10 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 28          | T J       | ug/L |   | 7.17 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 13          | T J       | ug/L |   | 7.65 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 15          | T J       | ug/L |   | 7.79 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| 2,3,4,5,6,7-Hexahydro-1H-cyclopenta [a]pentalene | 8.1         | T J N     | ug/L |   | 7.95 | 1000189-31-0 | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 9.9         | T J       | ug/L |   | 8.03 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Benzocycloheptatriene                            | 13          | T J N     | ug/L |   | 8.08 | 264-09-5     | 12/19/19 15:19 | 12/20/19 17:14 | 1       |
| Unknown                                          | 9.3         | T J       | ug/L |   | 8.13 |              | 12/19/19 15:19 | 12/20/19 17:14 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-12R**

**Lab Sample ID: 480-164301-6**

**Date Collected: 12/13/19 09:00**

**Matrix: Water**

**Date Received: 12/17/19 12:00**

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

| <i>Tentatively Identified Compound</i> | <i>Est. Result</i> | <i>Qualifier</i> | <i>Unit</i>   | <i>D</i> | <i>RT</i> | <i>CAS No.</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|----------------------------------------|--------------------|------------------|---------------|----------|-----------|----------------|-----------------|-----------------|----------------|
| Unknown                                | 10                 | T J              | ug/L          |          | 8.56      |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| Unknown                                | 13                 | T J              | ug/L          |          | 8.58      |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| Unknown                                | 8.7                | T J              | ug/L          |          | 9.24      |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| <i>Surrogate</i>                       | <i>%Recovery</i>   | <i>Qualifier</i> | <i>Limits</i> |          |           |                | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 2,4,6-Tribromophenol                   | 116                |                  | 41 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| 2-Fluorobiphenyl                       | 90                 |                  | 48 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| 2-Fluorophenol                         | 56                 |                  | 35 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| Nitrobenzene-d5                        | 86                 |                  | 46 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| Phenol-d5                              | 38                 |                  | 22 - 120      |          |           |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |
| p-Terphenyl-d14                        | 88                 |                  | 60 - 148      |          |           |                | 12/19/19 15:19  | 12/20/19 17:14  | 1              |

## Method: 6010C - Metals (ICP)

| <i>Analyte</i> | <i>Result</i> | <i>Qualifier</i> | <i>RL</i> | <i>MDL</i> | <i>Unit</i> | <i>D</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|----------------|---------------|------------------|-----------|------------|-------------|----------|-----------------|-----------------|----------------|
| Arsenic        | 0.027         |                  | 0.015     |            | mg/L        |          | 12/18/19 09:30  | 12/18/19 23:08  | 1              |
| Lead           | ND            |                  | 0.010     |            | mg/L        |          | 12/18/19 09:30  | 12/18/19 23:08  | 1              |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-14**

**Lab Sample ID: 480-164301-7**

**Date Collected: 12/13/19 12:15**

**Matrix: Water**

**Date Received: 12/17/19 12:00**

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

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 1.0 | 0.82 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 1.0 | 0.31 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,1,2-Trichloroethane                 | ND     |           | 1.0 | 0.23 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,1-Dichloroethane                    | ND     |           | 1.0 | 0.38 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,1-Dichloroethene                    | ND     |           | 1.0 | 0.29 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,2,4-Trichlorobenzene                | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,2-Dibromoethane                     | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,2-Dichlorobenzene                   | ND     |           | 1.0 | 0.79 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,2-Dichloroethane                    | ND     |           | 1.0 | 0.21 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,2-Dichloropropane                   | ND     |           | 1.0 | 0.72 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,3-Dichlorobenzene                   | ND     |           | 1.0 | 0.78 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 1,4-Dichlorobenzene                   | ND     |           | 1.0 | 0.84 | ug/L |   |          | 12/20/19 00:25 | 1       |
| 2-Butanone (MEK)                      | ND     |           | 10  | 1.3  | ug/L |   |          | 12/20/19 00:25 | 1       |
| 2-Hexanone                            | ND     |           | 5.0 | 1.2  | ug/L |   |          | 12/20/19 00:25 | 1       |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 5.0 | 2.1  | ug/L |   |          | 12/20/19 00:25 | 1       |
| Acetone                               | ND     |           | 10  | 3.0  | ug/L |   |          | 12/20/19 00:25 | 1       |
| Benzene                               | ND     |           | 1.0 | 0.41 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Bromodichloromethane                  | ND     |           | 1.0 | 0.39 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Bromoform                             | ND     |           | 1.0 | 0.26 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Bromomethane                          | ND     |           | 1.0 | 0.69 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Carbon disulfide                      | ND     |           | 1.0 | 0.19 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Carbon tetrachloride                  | ND     |           | 1.0 | 0.27 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Chlorobenzene                         | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Chloroethane                          | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Chloroform                            | ND     |           | 1.0 | 0.34 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Chloromethane                         | ND     |           | 1.0 | 0.35 | ug/L |   |          | 12/20/19 00:25 | 1       |
| cis-1,2-Dichloroethene                | ND     |           | 1.0 | 0.81 | ug/L |   |          | 12/20/19 00:25 | 1       |
| cis-1,3-Dichloropropene               | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Cyclohexane                           | ND     |           | 1.0 | 0.18 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Dibromochloromethane                  | ND     |           | 1.0 | 0.32 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Dichlorodifluoromethane               | ND     |           | 1.0 | 0.68 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Ethylbenzene                          | ND     |           | 1.0 | 0.74 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Isopropylbenzene                      | ND     |           | 1.0 | 0.79 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Methyl acetate                        | ND     |           | 2.5 | 1.3  | ug/L |   |          | 12/20/19 00:25 | 1       |
| Methyl tert-butyl ether               | ND     |           | 1.0 | 0.16 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Methylcyclohexane                     | ND     |           | 1.0 | 0.16 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Methylene Chloride                    | ND     |           | 1.0 | 0.44 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Styrene                               | ND     |           | 1.0 | 0.73 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Tetrachloroethene                     | ND     |           | 1.0 | 0.36 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Toluene                               | ND     |           | 1.0 | 0.51 | ug/L |   |          | 12/20/19 00:25 | 1       |
| trans-1,2-Dichloroethene              | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/20/19 00:25 | 1       |
| trans-1,3-Dichloropropene             | ND     |           | 1.0 | 0.37 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Trichloroethene                       | ND     |           | 1.0 | 0.46 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Trichlorofluoromethane                | ND     |           | 1.0 | 0.88 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Vinyl chloride                        | ND     |           | 1.0 | 0.90 | ug/L |   |          | 12/20/19 00:25 | 1       |
| Xylenes, Total                        | ND     |           | 2.0 | 0.66 | ug/L |   |          | 12/20/19 00:25 | 1       |
| n-Butylbenzene                        | ND     |           | 1.0 | 0.64 | ug/L |   |          | 12/20/19 00:25 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-14

Lab Sample ID: 480-164301-7

Date Collected: 12/13/19 12:15

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/20/19 00:25 | 1       |
| sec-Butylbenzene       | ND     |           | 1.0 | 0.75 | ug/L |   |          | 12/20/19 00:25 | 1       |
| tert-Butylbenzene      | ND     |           | 1.0 | 0.81 | ug/L |   |          | 12/20/19 00:25 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 12/20/19 00:25 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 77 - 120 |          | 12/20/19 00:25 | 1       |
| 4-Bromofluorobenzene (Surr)  | 109       |           | 73 - 120 |          | 12/20/19 00:25 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 80 - 120 |          | 12/20/19 00:25 | 1       |

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

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol         | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2,4,6-Trichlorophenol         | ND     |           | 5.0 | 0.61 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2,4-Dichlorophenol            | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2,4-Dimethylphenol            | ND     |           | 5.0 | 0.50 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2,4-Dinitrophenol             | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2,4-Dinitrotoluene            | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2,6-Dinitrotoluene            | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Chloronaphthalene           | ND     |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Chlorophenol                | ND     |           | 5.0 | 0.53 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Methylnaphthalene           | ND     |           | 5.0 | 0.60 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Methylphenol                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Nitroaniline                | ND     |           | 10  | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Nitrophenol                 | ND     |           | 5.0 | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 3,3'-Dichlorobenzidine        | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 3-Nitroaniline                | ND     |           | 10  | 0.48 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4,6-Dinitro-2-methylphenol    | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Bromophenyl phenyl ether    | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Chloro-3-methylphenol       | ND     |           | 5.0 | 0.45 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Chloroaniline               | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Chlorophenyl phenyl ether   | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Methylphenol                | ND     |           | 10  | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Nitroaniline                | ND     |           | 10  | 0.25 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 4-Nitrophenol                 | ND     |           | 10  | 1.5  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Acenaphthene                  | ND     |           | 5.0 | 0.41 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Acenaphthylene                | ND     |           | 5.0 | 0.38 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Acetophenone                  | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Anthracene                    | ND     |           | 5.0 | 0.28 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Atrazine                      | ND *   |           | 5.0 | 0.46 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Benzaldehyde                  | ND     |           | 5.0 | 0.27 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Benzo(a)anthracene            | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Benzo(a)pyrene                | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Benzo(b)fluoranthene          | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Benzo(g,h,i)perylene          | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Benzo(k)fluoranthene          | ND     |           | 5.0 | 0.73 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Biphenyl                      | ND     |           | 5.0 | 0.65 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 5.0 | 0.52 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: MW-14

Lab Sample ID: 480-164301-7

Date Collected: 12/13/19 12:15

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-chloroethoxy)methane  | ND     |           | 5.0 | 0.35 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Bis(2-chloroethyl)ether     | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Bis(2-ethylhexyl) phthalate | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Butyl benzyl phthalate      | ND     |           | 5.0 | 1.0  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Caprolactam                 | ND     |           | 5.0 | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Carbazole                   | ND     |           | 5.0 | 0.30 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Chrysene                    | ND     |           | 5.0 | 0.33 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Dibenz(a,h)anthracene       | ND     |           | 5.0 | 0.42 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Dibenzofuran                | ND     |           | 10  | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Diethyl phthalate           | ND     |           | 5.0 | 0.22 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Dimethyl phthalate          | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Di-n-butyl phthalate        | ND     |           | 5.0 | 0.31 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Di-n-octyl phthalate        | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Fluoranthene                | ND     |           | 5.0 | 0.40 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Fluorene                    | ND     |           | 5.0 | 0.36 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Hexachlorobenzene           | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.68 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Hexachlorocyclopentadiene   | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Hexachloroethane            | ND     |           | 5.0 | 0.59 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Indeno(1,2,3-cd)pyrene      | ND     |           | 5.0 | 0.47 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Isophorone                  | ND     |           | 5.0 | 0.43 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Naphthalene                 | ND     |           | 5.0 | 0.76 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Nitrobenzene                | ND     |           | 5.0 | 0.29 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| N-Nitrosodi-n-propylamine   | ND     |           | 5.0 | 0.54 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| N-Nitrosodiphenylamine      | ND     |           | 5.0 | 0.51 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Pentachlorophenol           | ND     |           | 10  | 2.2  | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Phenanthrene                | ND     |           | 5.0 | 0.44 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Phenol                      | ND     |           | 5.0 | 0.39 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Pyrene                      | ND     |           | 5.0 | 0.34 | ug/L |   | 12/19/19 15:19 | 12/20/19 17:42 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 4.0         | T J       | ug/L |   | 2.47 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 320         | T J       | ug/L |   | 2.86 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 25          | T J       | ug/L |   | 4.85 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 3.3         | T J       | ug/L |   | 5.95 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 2.7         | T J       | ug/L |   | 6.83 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 2.9         | T J       | ug/L |   | 6.91 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 2.6         | T J       | ug/L |   | 7.78 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 2.4         | T J       | ug/L |   | 8.56 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Unknown                         | 1.9         | T J       | ug/L |   | 9.24 |         | 12/19/19 15:19 | 12/20/19 17:42 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol | 119       |           | 41 - 120 | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Fluorobiphenyl     | 113       |           | 48 - 120 | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| 2-Fluorophenol       | 65        |           | 35 - 120 | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Nitrobenzene-d5      | 106       |           | 46 - 120 | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| Phenol-d5            | 43        |           | 22 - 120 | 12/19/19 15:19 | 12/20/19 17:42 | 1       |
| p-Terphenyl-d14      | 78        |           | 60 - 148 | 12/19/19 15:19 | 12/20/19 17:42 | 1       |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-14**

**Date Collected: 12/13/19 12:15**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-7**

**Matrix: Water**

**Method: 6010C - Metals (ICP)**

| Analyte | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic | 0.072  |           | 0.015 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 23:12 | 1       |
| Lead    | ND     |           | 0.010 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 23:12 | 1       |

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-164301-8

Date Collected: 12/13/19 09:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                               | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                 | ND     |           | 10  | 8.2 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,1,2,2-Tetrachloroethane             | ND     |           | 10  | 2.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND     |           | 10  | 3.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,1,2-Trichloroethane                 | ND     |           | 10  | 2.3 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,1-Dichloroethane                    | ND     |           | 10  | 3.8 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,1-Dichloroethene                    | ND     |           | 10  | 2.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,2,4-Trichlorobenzene                | ND     |           | 10  | 4.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,2-Dibromo-3-Chloropropane           | ND     |           | 10  | 3.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,2-Dibromoethane                     | ND     |           | 10  | 7.3 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,2-Dichlorobenzene                   | ND     |           | 10  | 7.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,2-Dichloroethane                    | ND     |           | 10  | 2.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,2-Dichloropropane                   | ND     |           | 10  | 7.2 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,3-Dichlorobenzene                   | ND     |           | 10  | 7.8 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 1,4-Dichlorobenzene                   | ND     |           | 10  | 8.4 | ug/L |   |          | 12/20/19 00:50 | 10      |
| 2-Butanone (MEK)                      | ND     |           | 100 | 13  | ug/L |   |          | 12/20/19 00:50 | 10      |
| 2-Hexanone                            | ND     |           | 50  | 12  | ug/L |   |          | 12/20/19 00:50 | 10      |
| 4-Methyl-2-pentanone (MIBK)           | ND     |           | 50  | 21  | ug/L |   |          | 12/20/19 00:50 | 10      |
| Acetone                               | ND     |           | 100 | 30  | ug/L |   |          | 12/20/19 00:50 | 10      |
| Benzene                               | ND     |           | 10  | 4.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Bromodichloromethane                  | ND     |           | 10  | 3.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Bromoform                             | ND     |           | 10  | 2.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Bromomethane                          | ND     |           | 10  | 6.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Carbon disulfide                      | ND     |           | 10  | 1.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Carbon tetrachloride                  | ND     |           | 10  | 2.7 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Chlorobenzene                         | ND     |           | 10  | 7.5 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Chloroethane                          | ND     |           | 10  | 3.2 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Chloroform                            | ND     |           | 10  | 3.4 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Chloromethane                         | ND     |           | 10  | 3.5 | ug/L |   |          | 12/20/19 00:50 | 10      |
| cis-1,2-Dichloroethene                | ND     |           | 10  | 8.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| cis-1,3-Dichloropropene               | ND     |           | 10  | 3.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Cyclohexane                           | 69     |           | 10  | 1.8 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Dibromochloromethane                  | ND     |           | 10  | 3.2 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Dichlorodifluoromethane               | ND     |           | 10  | 6.8 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Ethylbenzene                          | ND     |           | 10  | 7.4 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Isopropylbenzene                      | ND     |           | 10  | 7.9 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Methyl acetate                        | ND     |           | 25  | 13  | ug/L |   |          | 12/20/19 00:50 | 10      |
| Methyl tert-butyl ether               | ND     |           | 10  | 1.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Methylcyclohexane                     | 150    |           | 10  | 1.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Methylene Chloride                    | 6.2 J  |           | 10  | 4.4 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Styrene                               | ND     |           | 10  | 7.3 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Tetrachloroethene                     | ND     |           | 10  | 3.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Toluene                               | ND     |           | 10  | 5.1 | ug/L |   |          | 12/20/19 00:50 | 10      |
| trans-1,2-Dichloroethene              | ND     |           | 10  | 9.0 | ug/L |   |          | 12/20/19 00:50 | 10      |
| trans-1,3-Dichloropropene             | ND     |           | 10  | 3.7 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Trichloroethene                       | ND     |           | 10  | 4.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Trichlorofluoromethane                | ND     |           | 10  | 8.8 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Vinyl chloride                        | ND     |           | 10  | 9.0 | ug/L |   |          | 12/20/19 00:50 | 10      |
| Xylenes, Total                        | ND     |           | 20  | 6.6 | ug/L |   |          | 12/20/19 00:50 | 10      |
| n-Butylbenzene                        | ND     |           | 10  | 6.4 | ug/L |   |          | 12/20/19 00:50 | 10      |

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# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-164301-8

Date Collected: 12/13/19 09:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                                | Result             | Qualifier        | RL            | MDL      | Unit      | D              | Prepared        | Analyzed        | Dil Fac        |
|----------------------------------------|--------------------|------------------|---------------|----------|-----------|----------------|-----------------|-----------------|----------------|
| 1,2,4-Trimethylbenzene                 | ND                 |                  | 10            | 7.5      | ug/L      |                |                 | 12/20/19 00:50  | 10             |
| sec-Butylbenzene                       | ND                 |                  | 10            | 7.5      | ug/L      |                |                 | 12/20/19 00:50  | 10             |
| tert-Butylbenzene                      | ND                 |                  | 10            | 8.1      | ug/L      |                |                 | 12/20/19 00:50  | 10             |
| <i>Tentatively Identified Compound</i> | <i>Est. Result</i> | <i>Qualifier</i> | <i>Unit</i>   | <i>D</i> | <i>RT</i> | <i>CAS No.</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Unknown                                | 26                 | T J              | ug/L          |          | 3.14      |                |                 | 12/20/19 00:50  | 10             |
| Benzene, 4-ethyl-1,2-dimethyl-         | 32                 | T J N            | ug/L          |          | 12.35     | 934-80-5       |                 | 12/20/19 00:50  | 10             |
| Benzene, 1,2,3,4-tetramethyl-          | 34                 | T J N            | ug/L          |          | 12.69     | 488-23-3       |                 | 12/20/19 00:50  | 10             |
| Benzene, 1-methyl-4-(1-methylethyl)-   | 52                 | T J N            | ug/L          |          | 13.10     | 99-87-6        |                 | 12/20/19 00:50  | 10             |
| <i>Surrogate</i>                       | <i>%Recovery</i>   | <i>Qualifier</i> | <i>Limits</i> |          |           |                | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 1,2-Dichloroethane-d4 (Surr)           | 114                |                  | 77 - 120      |          |           |                |                 | 12/20/19 00:50  | 10             |
| 4-Bromofluorobenzene (Surr)            | 119                |                  | 73 - 120      |          |           |                |                 | 12/20/19 00:50  | 10             |
| Toluene-d8 (Surr)                      | 100                |                  | 80 - 120      |          |           |                |                 | 12/20/19 00:50  | 10             |

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

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| 2,4,5-Trichlorophenol       | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2,4,6-Trichlorophenol       | ND     |           | 25 | 3.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2,4-Dichlorophenol          | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2,4-Dimethylphenol          | ND     |           | 25 | 2.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2,4-Dinitrophenol           | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2,4-Dinitrotoluene          | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2,6-Dinitrotoluene          | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Chloronaphthalene         | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Chlorophenol              | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Methylnaphthalene         | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Methylphenol              | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Nitroaniline              | ND     |           | 50 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Nitrophenol               | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 3,3'-Dichlorobenzidine      | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 3-Nitroaniline              | ND     |           | 50 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4,6-Dinitro-2-methylphenol  | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Bromophenyl phenyl ether  | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Chloro-3-methylphenol     | ND     |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Chloroaniline             | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Chlorophenyl phenyl ether | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Methylphenol              | ND     |           | 50 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Nitroaniline              | ND     |           | 50 | 1.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 4-Nitrophenol               | ND     |           | 50 | 7.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Acenaphthene                | ND     |           | 25 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Acenaphthylene              | ND     |           | 25 | 1.9 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Acetophenone                | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Anthracene                  | ND     |           | 25 | 1.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Atrazine                    | ND *   |           | 25 | 2.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzaldehyde                | ND     |           | 25 | 1.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzo(a)anthracene          | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzo(a)pyrene              | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzo(b)fluoranthene        | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzo(g,h,i)perylene        | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

Client Sample ID: BLIND DUP

Lab Sample ID: 480-164301-8

Date Collected: 12/13/19 09:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Analyte                       | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Benzo(k)fluoranthene          | ND     |           | 25 | 3.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Biphenyl                      | ND     |           | 25 | 3.3 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| bis (2-chloroisopropyl) ether | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Bis(2-chloroethoxy)methane    | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Bis(2-chloroethyl)ether       | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Bis(2-ethylhexyl) phthalate   | ND     |           | 25 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Butyl benzyl phthalate        | ND     |           | 25 | 5.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Caprolactam                   | ND     |           | 25 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Carbazole                     | ND     |           | 25 | 1.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Chrysene                      | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Dibenz(a,h)anthracene         | ND     |           | 25 | 2.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Dibenzofuran                  | ND     |           | 50 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Diethyl phthalate             | ND     |           | 25 | 1.1 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Dimethyl phthalate            | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Di-n-butyl phthalate          | ND     |           | 25 | 1.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Di-n-octyl phthalate          | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Fluoranthene                  | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Fluorene                      | ND     |           | 25 | 1.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Hexachlorobenzene             | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Hexachlorobutadiene           | ND     |           | 25 | 3.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Hexachlorocyclopentadiene     | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Hexachloroethane              | ND     |           | 25 | 3.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Indeno(1,2,3-cd)pyrene        | ND     |           | 25 | 2.4 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Isophorone                    | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Naphthalene                   | ND     |           | 25 | 3.8 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Nitrobenzene                  | ND     |           | 25 | 1.5 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| N-Nitrosodi-n-propylamine     | ND     |           | 25 | 2.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| N-Nitrosodiphenylamine        | ND     |           | 25 | 2.6 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Pentachlorophenol             | ND     |           | 50 | 11  | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Phenanthrene                  | ND     |           | 25 | 2.2 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Phenol                        | ND     |           | 25 | 2.0 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Pyrene                        | ND     |           | 25 | 1.7 | ug/L |   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |

| Tentatively Identified Compound           | Est. Result | Qualifier | Unit | D | RT   | CAS No.   | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------------|-------------|-----------|------|---|------|-----------|----------------|----------------|---------|
| Unknown                                   | 21          | T J       | ug/L |   | 2.47 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 8.9         | T J       | ug/L |   | 2.72 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 1500        | T J       | ug/L |   | 2.85 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 130         | T J       | ug/L |   | 4.85 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 15          | T J       | ug/L |   | 5.95 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzene, 2-ethyl-1,3-dimethyl-            | 20          | T J N     | ug/L |   | 6.75 | 2870-04-4 | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 10          | T J       | ug/L |   | 6.85 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 14          | T J       | ug/L |   | 6.91 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Benzene, 1,2,4,5-tetramethyl-             | 16          | T J N     | ug/L |   | 6.95 | 95-93-2   | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 12          | T J       | ug/L |   | 7.10 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 30          | T J       | ug/L |   | 7.17 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 8.8         | T J       | ug/L |   | 7.34 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 16          | T J       | ug/L |   | 7.64 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                                   | 15          | T J       | ug/L |   | 7.78 |           | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Naphthalene, 1,2,3,4-tetrahydro-6-methyl- | 8.2         | T J N     | ug/L |   | 7.95 | 1680-51-9 | 12/19/19 15:19 | 12/20/19 18:10 | 1       |

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: BLIND DUP**

**Lab Sample ID: 480-164301-8**

Date Collected: 12/13/19 09:30

Matrix: Water

Date Received: 12/17/19 12:00

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit     | D | RT   | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|----------|---|------|---------|----------------|----------------|---------|
| Unknown                         | 10          | T J       | ug/L     |   | 8.03 |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                         | 12          | T J       | ug/L     |   | 8.08 |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                         | 8.2         | T J       | ug/L     |   | 8.13 |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                         | 16          | T J       | ug/L     |   | 8.56 |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Unknown                         | 15          | T J       | ug/L     |   | 8.59 |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Surrogate                       | %Recovery   | Qualifier | Limits   |   |      |         | Prepared       | Analyzed       | Dil Fac |
| 2,4,6-Tribromophenol            | 131         | X         | 41 - 120 |   |      |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Fluorobiphenyl                | 107         |           | 48 - 120 |   |      |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| 2-Fluorophenol                  | 65          |           | 35 - 120 |   |      |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Nitrobenzene-d5                 | 98          |           | 46 - 120 |   |      |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| Phenol-d5                       | 44          |           | 22 - 120 |   |      |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |
| p-Terphenyl-d14                 | 89          |           | 60 - 148 |   |      |         | 12/19/19 15:19 | 12/20/19 18:10 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Arsenic | 0.026  |           | 0.015 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 23:16 | 1       |
| Lead    | ND     |           | 0.010 |     | mg/L |   | 12/18/19 09:30 | 12/18/19 23:16 | 1       |

# Lab Chronicle

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

## Client Sample ID: MW-1

Date Collected: 12/13/19 13:30

Date Received: 12/17/19 12:00

## Lab Sample ID: 480-164301-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 2               | 510964       | 12/19/19 21:59       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 15:21       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 22:24       | EMB     | TAL BUF |

## Client Sample ID: MW-6R

Date Collected: 12/13/19 11:00

Date Received: 12/17/19 12:00

## Lab Sample ID: 480-164301-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 8               | 510964       | 12/19/19 22:23       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 15:49       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 22:28       | EMB     | TAL BUF |

## Client Sample ID: MW-7

Date Collected: 12/13/19 14:30

Date Received: 12/17/19 12:00

## Lab Sample ID: 480-164301-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 4               | 510964       | 12/19/19 22:48       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 16:17       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 22:32       | EMB     | TAL BUF |

## Client Sample ID: MW-8R

Date Collected: 12/13/19 15:30

Date Received: 12/17/19 12:00

## Lab Sample ID: 480-164301-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 10              | 510964       | 12/19/19 23:12       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 16:45       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 22:35       | EMB     | TAL BUF |

## Client Sample ID: MW-10

Date Collected: 12/13/19 08:15

Date Received: 12/17/19 12:00

## Lab Sample ID: 480-164301-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 510964       | 12/19/19 23:36       | OMI     | TAL BUF |

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

**Client Sample ID: MW-10**

**Date Collected: 12/13/19 08:15**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 14:52       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 22:50       | EMB     | TAL BUF |

**Client Sample ID: MW-12R**

**Date Collected: 12/13/19 09:00**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 10              | 510964       | 12/20/19 00:01       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 17:14       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 23:08       | EMB     | TAL BUF |

**Client Sample ID: MW-14**

**Date Collected: 12/13/19 12:15**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-7**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 510964       | 12/20/19 00:25       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 17:42       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 23:12       | EMB     | TAL BUF |

**Client Sample ID: BLIND DUP**

**Date Collected: 12/13/19 09:30**

**Date Received: 12/17/19 12:00**

**Lab Sample ID: 480-164301-8**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 10              | 510964       | 12/20/19 00:50       | OMI     | TAL BUF |
| Total/NA  | Prep       | 3510C        |     |                 | 510919       | 12/19/19 15:19       | AAP     | TAL BUF |
| Total/NA  | Analysis   | 8270D        |     | 1               | 511072       | 12/20/19 18:10       | JMM     | TAL BUF |
| Total/NA  | Prep       | 3005A        |     |                 | 510384       | 12/18/19 09:30       | JLC     | TAL BUF |
| Total/NA  | Analysis   | 6010C        |     | 1               | 510747       | 12/18/19 23:16       | EMB     | TAL BUF |

## Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins TestAmerica, Buffalo

# Accreditation/Certification Summary

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

## Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-20        |

|    |
|----|
| 1  |
| 2  |
| 3  |
| 4  |
| 5  |
| 6  |
| 7  |
| 8  |
| 9  |
| 10 |
| 11 |

## Method Summary

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

| Method | Method Description                           | Protocol | Laboratory |
|--------|----------------------------------------------|----------|------------|
| 8260C  | Volatile Organic Compounds by GC/MS          | SW846    | TAL BUF    |
| 8270D  | Semivolatile Organic Compounds (GC/MS)       | SW846    | TAL BUF    |
| 6010C  | Metals (ICP)                                 | SW846    | TAL BUF    |
| 3005A  | Preparation, Total Metals                    | SW846    | TAL BUF    |
| 3510C  | Liquid-Liquid Extraction (Separatory Funnel) | SW846    | TAL BUF    |
| 5030C  | Purge and Trap                               | SW846    | TAL BUF    |

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Homer Street Redevelopment LLC  
Project/Site: Benchmark - 251 Homer St. site

Job ID: 480-164301-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 480-164301-1  | MW-1             | Water  | 12/13/19 13:30 | 12/17/19 12:00 |          |
| 480-164301-2  | MW-6R            | Water  | 12/13/19 11:00 | 12/17/19 12:00 |          |
| 480-164301-3  | MW-7             | Water  | 12/13/19 14:30 | 12/17/19 12:00 |          |
| 480-164301-4  | MW-8R            | Water  | 12/13/19 15:30 | 12/17/19 12:00 |          |
| 480-164301-5  | MW-10            | Water  | 12/13/19 08:15 | 12/17/19 12:00 |          |
| 480-164301-6  | MW-12R           | Water  | 12/13/19 09:00 | 12/17/19 12:00 |          |
| 480-164301-7  | MW-14            | Water  | 12/13/19 12:15 | 12/17/19 12:00 |          |
| 480-164301-8  | BLIND DUP        | Water  | 12/13/19 09:30 | 12/17/19 12:00 |          |

## Login Sample Receipt Checklist

Client: Homer Street Redevelopment LLC

Job Number: 480-164301-1

**Login Number: 164301**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Harper, Marcus D**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified                                                     | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |         |
| Multiphasic samples are not present.                                             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Sampling Company provided.                                                       | True   |         |
| Samples received within 48 hours of sampling.                                    | True   |         |
| Samples requiring field filtration have been filtered in the field.              | N/A    |         |
| Chlorine Residual checked.                                                       | N/A    |         |

## Chain of Custody Record

| <b>Client Information</b>                                                                                                                                                                                              |             | Lab PM:<br>Fischer, Brian J                 |                              | Carrier Tracking No(s):<br>480-138982-31276.1                                                                                                                          |                                   |                            |                                          |                       |                                        |                            |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------|------------------------------------------|-----------------------|----------------------------------------|----------------------------|----------------------------|
| Client Contact:<br>Michael Lesakowski                                                                                                                                                                                  |             | E-Mail:<br>brian.fischer@testamericainc.com |                              | Page:<br>Page 1 of 1                                                                                                                                                   |                                   |                            |                                          |                       |                                        |                            |                            |
| Company:<br>Homer Street Redevelopment LLC                                                                                                                                                                             |             |                                             |                              | Job #:                                                                                                                                                                 |                                   |                            |                                          |                       |                                        |                            |                            |
| Address:<br>2558 Hamburg Turnpike Suite 330                                                                                                                                                                            |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| City:<br>Lackawanna                                                                                                                                                                                                    |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| State, Zip:<br>NY, 14218                                                                                                                                                                                               |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Phone:<br>716 697 5931                                                                                                                                                                                                 |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Email:<br>mlesakowski@turnkeyllc.com                                                                                                                                                                                   |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Project Name:<br>Benchmark - 251 Homer St. site                                                                                                                                                                        |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Site:<br>251 Homer St                                                                                                                                                                                                  |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Due Date Requested:                                                                                                                                                                                                    |             | Analysis Requested                          |                              | Preservation Codes:                                                                                                                                                    |                                   |                            |                                          |                       |                                        |                            |                            |
| TAT Requested (days):<br><b>STANDARD</b>                                                                                                                                                                               |             |                                             |                              | M - Hexane<br>A - HCL<br>B - NaOH<br>C - Zn dusting                                                                                                                    |                                   |                            |                                          |                       |                                        |                            |                            |
| PO #:<br>Purchase Order not required                                                                                                                                                                                   |             |                                             |                              | N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |                                   |                            |                                          |                       |                                        |                            |                            |
| WO #:                                                                                                                                                                                                                  |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Project #:<br>48004164                                                                                                                                                                                                 |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| SSOW#:                                                                                                                                                                                                                 |             |                                             |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |
| Sample Identification                                                                                                                                                                                                  | Sample Date | Sample Time                                 | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=other)                                                                                                                                     | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8270D - (MOD) TCL SVOA - OLMO4.2 w/ TICs | 6010C - (MOD) As & Pb | 8260C - (MOD) TCL list OLMO4.2 w/ TICs | Total Number of containers | Special Instructions/Note: |
| MW-1                                                                                                                                                                                                                   | 12-13-19    | 1330                                        | G                            | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MW-6R                                                                                                                                                                                                                  |             | 1100                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MW-7                                                                                                                                                                                                                   |             | 1430                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MW-8R                                                                                                                                                                                                                  |             | 1530                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MW-10                                                                                                                                                                                                                  |             | 0815                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MW-12R                                                                                                                                                                                                                 |             | 0900                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MW-14                                                                                                                                                                                                                  |             | 1215                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| MS / MSD                                                                                                                                                                                                               |             | 0920                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| BLIND DUP                                                                                                                                                                                                              |             | 0930                                        |                              | Water                                                                                                                                                                  | X                                 | X                          | X                                        | X                     | X                                      |                            |                            |
| Possible Hazard Identification                                                                                                                                                                                         |             | Date: 12/17/19                              |                              | Time: 10:30                                                                                                                                                            |                                   |                            |                                          |                       |                                        |                            |                            |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |             | Received by: [Signature]                    |                              | Method of Shipment: Pickup                                                                                                                                             |                                   |                            |                                          |                       |                                        |                            |                            |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                 |             | Date/Time: 12/17/19 10:30                   |                              | Date/Time: 12/17/19 11:30                                                                                                                                              |                                   |                            |                                          |                       |                                        |                            |                            |
| Empty Kit Relinquished by: [Signature]                                                                                                                                                                                 |             | Date/Time: 12/17/19 12:00                   |                              | Date/Time: 12/17/19 12:00                                                                                                                                              |                                   |                            |                                          |                       |                                        |                            |                            |
| Relinquished by: [Signature]                                                                                                                                                                                           |             | Date/Time: 12/17/19 12:00                   |                              | Date/Time: 12/17/19 12:00                                                                                                                                              |                                   |                            |                                          |                       |                                        |                            |                            |
| Relinquished by: [Signature]                                                                                                                                                                                           |             | Date/Time: 12/17/19 12:00                   |                              | Date/Time: 12/17/19 12:00                                                                                                                                              |                                   |                            |                                          |                       |                                        |                            |                            |
| Custody Seals Intact: A Yes Δ No                                                                                                                                                                                       |             | Cooler Temperature(s) °C and Other Remarks: |                              |                                                                                                                                                                        |                                   |                            |                                          |                       |                                        |                            |                            |