Media Management Plan

Public Works Laydown Yard – Site Remediation

City of Georgetown Project #2001

March 8, 2023 | Terracon Report Number: EN237028

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- Facilities
- Environmental
- Geotechnical
- Materials

March 8, 2023

City of Georgetown, South Carolina
2377 Maybank Drive
PO Box 939
Georgetown, South Carolina 29440

Attn: Mr. Orlando Arteaga, P.E.
P: (843) 545-4501
E: oarteaga@georgetownsc.gov

RE: Media Management Plan
Public Works Laydown Yard – Site Remediation
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina 29440
Terracon Project No. EN237028

Dear Mr. Arteaga:

Terracon Consultants, Inc. (Terracon) is pleased to submit this Media Management Plan (MMP) for the above referenced project. This document was initiated and performed in general accordance with Terracon's Agreement for Services authorized on February 15, 2023.

Please do not hesitate to contact me at (843) 884-1234 or at Patrick.Homan@Terracon.com if you have any questions regarding the Media Management Plan.

Sincerely,
Terracon

Patrick Homan

Patrick Homan
Staff Scientist

For:

Chris Bartley
Senior Scientist

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List of Acronyms

ENV	Environmental
FAC	Facilities
GEO	Geotechnical
MAT	Materials

1.0 Background

The City of Georgetown (City) is an incorporated municipality with nearly 9,000 residents. The City is located 60 miles north of Charleston and 36 miles south of Myrtle Beach. It is the area's endpoint commonly known as "The Grand Strand." The Winyah Bay borders the City to the east and the Sampit River to the south. Tourism is a significant economic driver in the area and local industries, such as International Paper and Tidelands Hospital. The City is the county seat and operates under the Mayor-Council form of government as outlined in the State of South Carolina Code Chapter II, Article I, Section 2-1.

The City plans to address identified environmental concerns through remediation assessment, removal, and disposal of potential waste material at the Public Works Laydown Yard Site located at 120 North Kaminski Street and 113 North Hazard Street in Georgetown, South Carolina (the Site).

Terracon conducted a Phase I Environmental Site Assessment (ESA) at the site on September 1, 2022. Based on interviews conducted with the site operator during the Phase I ESA, the site reportedly contains buried materials in the approximate center of the site. The nature of the buried material is not known at this time. The Phase I ESA identified reported buried material on the site as a Recognized Environmental Conditions (REC). Other off-site RECs were identified in the Phase I ESA report in association with the north, east, and west adjoining properties.

Terracon conducted a Phase II Limited Site Investigation (LSI) at the site on December 7, 2022, to address the above identified RECs in the Phase I ESA report. Terracon performed a Ground-Penetrating Radar (GPR) survey utilizing a cart-mounted 350-megahertz (MHz) antenna and SIR-4000 controller in the approximate center of the site, in response to the reported buried materials at the site. The GRP survey identified approximately 6 potential subsurface anomalies located in the approximate center of the site. The subsurface anomalies were observed to be approximately 3 to 4 feet below ground surface at the time of the survey. Additional subsurface anomalies may exist beyond those potentially identified during the GPR survey. The approximate located of the identified subsurface anomalies are shown in Figure 3 of this report.

Based on the findings of the LSI Investigation previously completed on the site, this Media Management Plan (MMP) is developed for the site remediation activities. The MMP shall address procedures for management of contaminated media when disturbed, characterization of any soil, surface water or groundwater that is to be removed from the site, and offsite disposal of any contaminated soil or water that is to be removed from the site at a permitted waste disposal facility. It will be the responsibility of the selected contractor to perform drum material characterization for off-site disposal. Upon completion of site development and soil disturbance, a report of the soil management activities shall be

submitted to the City and SCDHEC documenting the areas and depths of soil removal, all soil and groundwater sampling results, quantities of contaminated soil and groundwater removed from the site, their disposal locations, and disposal manifests.

Figure 2 is included in Appendix A and shows the approximate LSI sampling locations.

This MMP includes the following:

- Site map showing pertinent site development features;
- Pre-construction considerations;
- Field oversight procedures for contaminated soil/water/material removal;
- Terracon's procedures for characterization of soil/water material;
- Construction contractor's procedures for non-hazardous waste characterization and profiling of containerized material;
- Contingency plan for management of unclassified or hazardous media, if encountered; and
- Procedures for manifesting and documentation of disposition.

1.1 Phase I ESA

Terracon completed a Phase I ESA at the site on September 1, 2022 which identified the following RECs and/or site concerns:

- According to an interview with the current site operator, the site reportedly contains buried materials in the approximate center of the site.
- The City of Georgetown facility located at 125 Kaminski Street is a UST and LUST facility located approximately 25-feet west of the site.
- Landy's Cleaners Inc. is a drycleaner facility located approximately 300-feet east of the site at 119 N. Frasier Street.

1.2 LSI Report

Terracon performed a LSI at the site on December 7, 2022. The LSI consisted of 3 soil vapor samples collected across the approximate center of the site, 5 groundwater samples collected around the perimeter of the site, and a GPR survey performed in the approximate center of the site. The findings of the LSI report are discussed below.

1.2.1 Subsurface Soil Vapor Sampling Results

Three subsurface soil vapor samples were collected from the approximate center of the site in the proposed footprint of the future site building. Soil Vapor analytical data is provided in

Table 1 – Summary of Detected Soil Vapor Analytical Results. The soil vapor quality data was compared to the screening levels indicative of a 10^{-6} cancer risk or a hazard quotient of 1 (or 0.1 as applicable) for non-carcinogens based on the Vapor Intrusion Technical Guide. Copies of the laboratory analytical report and chain-of custody are included in Appendix D.

Hexane at SV-3 was detected above the Residential VISL limit of 24,300 µg/m3, but below the Commercial VISL, at 26,000 µg/m3.

SV-1 and SV-3 exceeded the Residential hazard quotient of 1 at 1.12 µg/m3 and 1.20 µg/m3, respectively, but was reported below the Commercial hazard quotient.

Cumulative risk values were calculated for each soil vapor sample location utilizing the Vapor Intrusion Screening Level (VISL) Calculator. Cumulative Risk calculations for the detected soil gas parameters did not exceed the Residential or Commercial risk calculations.

1.2.2 Groundwater Analytical Results

Groundwater levels at the temporary monitoring wells installed at the site were observed to range from approximately 5 feet to 8.5 feet below ground surface at the time of ground water sampling. Petroleum odors and/or sheens were not observed in monitoring well sampling. Several analytes were detected in the groundwater samples collected from the site. The groundwater quality data was compared to the primary MCLs in the South Carolina Primary Drinking Water Regulations (R.61-58) or, if not specified in R.61-58, to the RSLs for Tapwater (as listed in the USEPA RSLs Summary Table (version issued: May 2022).

Arsenic was reported above the USEPA MCL of 10 µg/L in TMW-1 at 17.2 µg/L. Based on the EPA MCL exceedance, groundwater on the site should not be used for drinking water purposes.

Multiple analytes were detected below the laboratory method detection limits (MDLs); however, the laboratory MDLs exceed the Tapwater RSLs and/or EPA MCLs. It is Terracon's opinion that these sensitivity failures for this analyte is not indicative of groundwater contamination at the site and does not impact site management decisions.

1.2.3 GPR Survey

Terracon performed a GPR Survey utilizing a cart-mounted 350-megahertz (MHz) antenna and SIR-4000 controller in the approximate center of the site, in response to reported potentially buried drums on the site. The survey method allowed for data to be interpreted on site in real-time without post-processing. The GPR survey identified approximately 6 subsurface anomalies located in the approximate center of the site. The subsurface anomalies were observed to be located approximately 3 to 4 feet below ground surface. Additional subsurface anomalies may exist beyond those potentially identified during this

GPR Survey. Subsurface conditions may vary from those encountered at the site during other surveys, tests, assessments, investigations, or exploratory services.

2.0 Worker Health and Safety

Worker health and safety is the responsibility of all contractors who are employed at the site. Each contractor shall be solely responsible for compliance with any required health and safety plan for the work performed.

The primary hazards during construction activities include open excavations, working with heavy equipment, and unknown buried material; however, chemical hazards may also arise if excavation activities encounter significantly contaminated media, unknown tanks or buried containers, or other unknown structures. Each contractor shall develop their own Health and Safety Plan (HASP) to address these potential hazards, in addition to construction-related hazards.

All onsite personnel will follow the requirements of the site-specific HASP prepared by Terracon prior to the remediation-phase of this project. As a requirement to be able to perform onsite duties associated with potentially hazardous chemical constituents while on site, all personnel must be 40 hour Occupational Safety and Health Administration's Hazardous Waste Operations and Emergency Response (HAZWOPER) certified and provide proof of certification.

3.0 Media Management Plan

Purpose and Overview

The purpose of the MMP is to serve as guidance for on-site soil and groundwater management, characterization, and proper disposal and/or handling of impacted media during excavation and construction activities. This MMP does not address municipality or county-specific construction permits or applicable licensure which may be required; we assume the client, project designers, and site contractors are attending to these matters outside the scope of this MMP.

This MMP provides the criteria for classification of "impacted" soil, groundwater, and surface water, and the basis by which materials are to be disposed. Soils produced during excavation or determined as unsuitable from an environmental perspective, and groundwater produced from dewatering of excavations and trenches and/or contaminated with chemical constituents are planned for removal, treatment, and offsite disposal. This MMP includes site-specific methods for the removal, temporary storage, transport, characterization, and/or disposal of soils and/or water.

In general, soil impacts, based on soil vapor sampling data collected, have not been identified in subsurface soils; however, soils excavated from the site will be screened with a Photo-Ionization Detector (PID) meter for elevated Volatile Organic Compound (VOC) impacts and will be segregated and temporarily stored for characterization if off-site disposal if it cannot be reused on-site. Characterization of identified impacted soil will be required for off-site disposal at a permitted solid waste facility. Further disposal detail for soil excavated during the site remediation are provided in Section 4 of this report.

The selected contractor will be responsible for characterization of drum/container contents identified during excavation for off-site disposal.

In general, groundwater and surface water pumped from excavation operations within the site boundaries should be introduced into the municipal stormwater system or discharged to the ground surface using best management practices (BMPs). Based on laboratory data the liquids may be introduced discharge ono the ground surface or introduced into the municipal stormwater system on the site. The City of Georgetown municipal stormwater district will determine if dewatered liquids can be introduced into the sewer system. **Containerized groundwater in frac-tanks may be required should evidence of groundwater impacts be identified during site excavations. The contractor should schedule an adequate number of frac tanks to be used on-site for groundwater containment should potentially impacted groundwater be encountered. Further disposal detail for dewatering during excavation at the site are provided in Section 4 of this report.**

Excavation activities are anticipated to encounter conditions such as buried drums, tanks, or other containers. if visual and/or olfactory observations of soils and materials excavated during construction activities appear to be impacted, previously stated procedures for stockpiling the impacted soils and materials must be followed. It is the contractor's responsibility to characterize any unknown liquids contained in uncovered buried drums, tanks, or other containers.

The primary requirements of the MMP are as follows:

- Identify worker safety during excavation activities.
- Identification of screening techniques to be utilized during excavation activities.
- During excavation activities the contractor shall stockpile excess soil at a location designated by The City of Georgetown and Terracon.
- The selected contractor will be responsible for characterization of all uncovered drum/container contents for off-site disposal;
- Terracon will perform characteristic sampling, testing, and final soil reuse or off-site disposal/recycling determinations, and;

- Terracon will perform characteristic sampling, testing, and final reuse or off-site disposal of the surface water and groundwater determinations that is extracted during excavation/construction activities.

The MMP will serve as a guide for the contractor's personnel and their subcontractors, the general contractor, and associated subcontractors during the project. Copies of this MMP should be provided to the contractor for distribution to applicable parties.

Prior to commencement of site excavation activities, City of Georgetown and their selected contractor should conduct a meeting to be held with all applicable parties to communicate applicable protocol related to the environmental conditions at the site and potential impacted media management practices recommended for the site. In the event that modifications to this MMP are required or beneficial based on the contractor's scope-of-work, construction specifications, field conditions encountered, or other unforeseen issues, an addendum to this MMP will be prepared by Terracon and approved by the City of Georgetown.

4.0 Guidelines and Characterization Procedures

Deep excavation operations are planned for the proposed remediation investigation at the site. Soils excavated from the remediation area will be field screened with a PID meter to assess elevated VOC impacts to the soils. Elevated PID readings are considered those exceeding 10 parts per million (PPM) and/or based on the discretion of the Terracon Scientist at the site. If impacted soil media is identified, the contractor will segregate potential impacted soil media at a pre-determined location on the site. Potentially impacted soil media shall be placed in a containment area consisting of 12-mil, or thicker, plastic sheeting placed below the potentially impacted soils. Potentially impacted soils stockpiled will be sampled for laboratory analysis and will be submitted as required for landfill acceptance if disposal is required.

Groundwater samples collected at the site did not identify significantly impacts to groundwater on-site. Non-impacted liquids produced during dewatering activities will be the responsibility of the City of Georgetown's selected contractor. Non-impacted liquids should be discharged to the drainage system surface using best management practices. The contractor is responsible for reviewing all information contained in reports and investigative documents completed for this project. Terracon will be responsible for all applicable dewatering permits and/or approvals required by local and state governments.

All excavated materials from the site will be stockpiled and characterized prior to movement off the site. The selected contractor will be responsible for characterization of drum/container contents identified during excavation for off-

site disposal. Excavated soils may be re-used on the site if no elevated PID reading or other obvious indicators of impacts are identified. **At no time should soils from the site be hauled from the site without prior testing.**

Excavation activities are anticipated to encounter conditions such as buried drums, tanks, or other containers. if visual observations of soils and materials excavated during construction activities appear to be impacted, previously stated procedures for stockpiling the impacted soils and materials must be followed. It is the contractor's responsibility to characterize any unknown liquids contained in uncovered buried drums, tanks, or other containers.

4.1 Soil Management Procedures for Stockpiles, Excavations and Site Grading

A designated work area will be established on the site by the City of Georgetown and their contractor to serve as a staging area for stockpiled soil and other construction debris. Potentially impacted soils and materials will be managed to prevent potential stormwater run-on and run-off. Stockpiles will be covered with heavy duty plastic sheeting and will be bermed using clean backfill, silt fencing, sandbags, etc. to manage run-off. If stormwater drains or drainage ditches are discovered during construction operations in the excavation areas, excavation activities will be protected from potential run-on/run-off.

4.2 Contractor Operations Plan

The excavation contractor shall have an operations plan fully detailing their means and methods of excavating, handling, segregating, stockpiling and disposing of contaminated and non-contaminated materials. This plan will be reviewed and approved by the City of Georgetown. The excavating contractor's operations plan must address all aspects of this work including site preparation, sediment, erosion and contamination control devices, equipment, personnel, on-site storage locations, off-site disposal locations, clean-up and demobilization procedures. Supervisory personnel including subcontractor's personnel must be listed by name and job title. This submittal shall also include proof of certifications required of personnel who may potentially come in contact with contaminants. Stormwater management during all site activities will be the responsibility of the contractor under the National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Permit. Trucks hauling impacted soils will be covered when leaving the site. Transportation of impacted soils will not be conducted during heavy rainfall events to minimize potential run-off.

It is the responsibility of the excavation contractor to notify the City of Georgetown;

- Within 48 hours prior to excavation/construction activities for off-site disposal at the site;
- Within 48 hours of dewatering in excavation areas at the site; or

The contractor's operations plan for all excavation activities will be discussed with and approved by the City of Georgetown prior to the start of on-site excavation activities.

4.3 Water Management Procedures

Dewatering activities undertaken during excavation activities may be discharged to the local municipal sewer district after receiving authorization. Discharge approval will need to be received from the municipal sewer district prior to discharging to the sanitary sewer system. The municipal sewer district may require additional sampling characterization of groundwater prior to discharge or disposal. Should potentially impacted groundwater be encountered during excavation activities, the groundwater should be contained in frac-tanks and groundwater characterization should be conducted prior to discharge/disposal.

Groundwater may be encountered during the proposed site excavation activities. Analytical results taken during Terracon's LSI assessment at the site indicate that groundwater is not significantly impacted. However, when working on the site, exposure to workers, the public, and the environment, to potentially impacted soil, surface water and groundwater, will be minimized. The contractor's operations plan referenced in Section 4.2 shall include their means and methods for dewatering, containerizing, testing, treating and/or releasing water from the project site. This includes all surface water and groundwater encountered during excavation work. All containerized water leaving the site shall be characterized and the contractor's operations plan shall detail all aspects of this work.

A permitted sewer district will determine if dewatered liquids can be disposed of in the sewer system. Additional sampling and characterization of groundwater may be required by the municipal sewer district prior to discharge approval.

In general, groundwater and surface water pumped from excavation operations within the site boundaries should be introduced into the municipal stormwater system or discharged to the ground surface using best management practices and the specification under the NPDES Construction General Permit SCR100000.

4.4 Soil and Groundwater Handling Criteria

Materials will be managed based on the previous sampling data and field observations using the following criteria:

Dry soils from Site – Dry soils at the site have not been previously assessed.

Soils throughout the site at these depths are approved for re-use on the site, unless indicators of impacts are observed during field screenings. Potentially impacted soils will be characterized and disposed off-site at a permitted solid waste facility, or if the soils are confirmed to be below the Resident RSLs, they may be utilized off the site for general purposes. The re-use of the soil off-site is prohibitive unless the results of laboratory analysis from appropriate number of samples confirm the soils are below Resident RSLs. The soils will be analyzed for Target Compound List (TCL) VOCs, TCL SVOCs, pesticides, PCBs, Target Analyte List (TAL) metals and cyanide to verify analytical reporting limits meet USEPA Resident RSLs. See Table 1 and Table 2 below for further sample parameter clarification.

Groundwater – Based on the Terracon LSI report, groundwater from the site is not anticipated to be significantly impacted. However, water produced from de-watering activities within the site areas should be containerized, characterized and properly disposed, or discharged to the surface using applicable stormwater Best Management Practices (BMPs) outlined in the NPDES Construction Site Permit if the analytical characterization results are below the available USEPA MCLs, or the Tapwater RSLs if no MCLs are listed. Containerized groundwater shall be characterized as defined in Table 3 of this report.

Surface Water – Surface water generated on the site is not anticipated to be impacted. As such, general run-off from the construction activities is unrestricted unless the surface water comes in contact with potential contaminants or excavation areas. Surface water produced from de-watering activities (i.e. from excavations) should be containerized, characterized and properly disposed, or discharged to the surface using applicable stormwater Best Management Practices (BMPs) outlined in the NPDES Construction Site Permit if the analytical characterization results are below the available USEPA MCLs, or the Tapwater RSLs if no MCLs are listed. Surface water discharge and all applicable permits will be the responsibility of the site owner and/or the construction contractor.

New Conditions, not previously identified –Excavation activities are anticipated to encounter conditions such as buried drums, tanks, or other containers. if visual observations of soils and materials excavated during construction activities appear to be impacted, previously stated procedures for stockpiling the impacted soils and materials must be followed. It is the contractor's responsibility to characterize any unknown liquids contained in uncovered buried drums, tanks, or other containers.

4.5 Temporary Stockpiled Soil

Any potentially impacted soils excavated and requiring disposal must be contained to prevent contamination from spreading to other areas through physical mixing, infiltration or runoff. Containment shall be accomplished through the construction of a containment area consisting of 12-mil, or thicker, plastic sheeting placed below the potentially impacted soils. Contaminated soil to be removed from the site or awaiting characterization results shall be

placed in the containment and covered with plastic extending outside the stockpile area and anchored with clean soil or other material. Potentially impacted soils stockpiled will be sampled for laboratory analysis to be submitted as required for landfill acceptance if disposal is required. If soil characterization results are below the Resident RSLs the temporarily stockpiled soils may be used for general purposes on-site or off-site.

4.6 Containerized Water

Liquids identified as potentially impacted during dewatering should be placed in drums, totes, frac tanks, or other larger containers pending testing and subsequent materials management. All liquid-filled containers should be placed in an area protected from site traffic. The containers should be sealed and covered, and storm water should not be allowed to accumulate on or around the containers. Any accumulated stormwater or groundwater should be inspected for obvious indicators of impact prior to discharge. Containerized liquids will be sampled for laboratory analysis identified in Table 3 of this report and will be submitted as required for disposal facility acceptance. If surface water or groundwater characterization results are below the available USEPA MCLs, or the Tapwater RSLs if no MCLs are listed, the temporarily containerized water may be discharged to the surface using applicable stormwater BMPs outlined in the NPDES Construction Site Permit. Surface discharge permits and local and state approval will be the responsibility of the City of Georgetown and/or it's selected contractor.

It will be the responsibility of the selected contractor to coordinate and provide pricing to the City of Georgetown per the Request for Bid (RFB) for Non-Hazardous/Hazardous Materials and Media disposal from the identified facilities below.

4.7 Off-site Disposal of Non-Hazardous Waste

Prior to the off-site shipment of excavated soils characterized as non-hazardous wastes, the City of Georgetown or their contractor shall prepare a transport manifest identifying the origin, amount, and destination of the shipment. Non-hazardous soils will likely be transported for disposal to:

Horry County Solid Waste Authority
1886 SC-90
Conway, SC 29526

A secondary location for disposal of excavated soils and non-hazardous wastes is:

- Other approved and permitted disposal locations pre-approved in the Contractor's Operations Plan

Non-hazardous liquids will likely be discharged or transported for disposal to:

- Ground surface, drainage ditch or stormwater catch basin following applicable stormwater BMPs outlined in the NPDES Construction Site Permit

A secondary location for disposal of non-hazardous liquids will likely be discharged or transported to:

- Other approved locations pre-approved in the contractor's Operations Plan

4.8 Off-Site Disposal of Hazardous Materials

The following facilities will except soils characterized as hazardous wastes. Hazardous soils will likely be transported for disposal at:

- Giant Resource Recovery Inc. (GRR)
  755 Industrial Boulevard, Sumter 29150

A secondary location for disposal of hazardous soils will likely be discharged or transported to:

- Other approved locations pre-approved in the contractor's Operations Plan

Hazardous liquids will likely be discharged or transported for disposal to:

- HEPACO Inc.
  Ladson, SC 29456
  (843) 414-0590

5.0 Sample Collection Procedures

5.1 Soil Handling Procedures

Imported backfill soil material must be obtained from a known SCDHEC permitted natural sand or dirt mine. The following Permitted SCDHEC permitted mine may be used for this project:

- WhiteHall Mine
  White Oak Forestry Corporation
  Whitehall Avenue, Georgetown County, South Carolina
  SCDHEC Permit Number I-002337

Should backfill soils need to be collected from a non-permitted mine facility, one composite soil sample will be collected for every 500 cubic yards of imported soil material used. The sample will be submitted for laboratory analysis to confirm an acceptable offsite backfill source has been selected. The backfill material will be tested for contaminants of concern in accordance with Table 2 below.

5.2 Potentially Impacted Soils

Terracon will perform the sampling and testing of the stockpiled soil to determine waste classification for off-site disposal. The disposal facility selected will have its procedures for characterizing/profiling the soil prior to their acceptance of the material. The required testing, profiling, and obtaining the necessary facility approvals the City of Georgetown's, or its designee's responsibility. The likely testing requirements and frequency of testing for soil disposal needs to include **Toxicity Characteristic Leaching Procedure (TCLP) extraction** and liquids testing provided in Table 1 below for information purposes only. The permitted disposal facility/landfill selected prior to excavation and construction activities may require a different or reduced analytical methods or sampling frequency. Should City of Georgetown or their contractor wish to evaluate on-site soil stockpiles for re-use off site, testing requirements and frequency of testing for soil re-use characterization are provided in Table 2 below. Soils characterization results shall be below USEPA Resident RSLs in order for the soils to be allowed for off-site re-use.

Table 1. Waste Characterization Analytical Methods for Landfill Acceptance

Contaminant of Concern	Analytical Method	Sampling Frequency
TCLP Extraction	USEPA 1311	One sample per 500 cubic yards
TCL VOCs	USEPA 5035/8260B	
TCL SVOCs	USEPA 8270C	
TCL PCBs	USEPA 8082	
TCL Pesticides	USEPA 8081A	

Contaminant of Concern	Analytical Method	Sampling Frequency
TCL Herbicides	USEPA 8051A	
RCRA Metals (except mercury)	USEPA 6010B/6020	
Mercury	USEPA 7471A	
Cyanide	USEPA 9012	

Table 2. Soil Re-Use Off-Site Characterization Analytical Methods

Contaminant of Concern	Analytical Method	Sampling Frequency
TCL VOCs	USEPA 5035/8260B	One sample per 500 cubic yards
TCL SVOCs	USEPA 8270C	
TCL PCBs	USEPA 8082	
TCL Pesticides	USEPA 8081A	
TAL Metals (except mercury)	USEPA 6010B/6020	
Mercury	USEPA 7471A	

Contaminant of Concern	Analytical Method	Sampling Frequency
Cyanide	USEPA 9012	

5.3 Soil Sample Collection

A decontaminated stainless steel hand auger, hand trowel, or disposable sterile sample scoop will be used to collect soil samples from stockpile soils or in situ soil locations. The hand augers/hand trowels will undergo decontamination procedures between each soil sample collection and prior to arrival on site. The City of Georgetown, or its designee will collect a representative sample from stockpiled soils as followed:

- All samples shall be collected in proper bottles with appropriate preservatives;
- All samples will be placed in coolers on ice until they are received at the laboratory;
- All samples must be delivered to the laboratory within the specific holding time for each analyte.

5.4 Water Handling Procedures

Significantly impacted groundwater was not observed during Terracon's LSI assessment at the site. In general, water encountered during dewatering activities can be discharge to the ground surface provided no obvious indicators of impacts are apparent. Potentially observed impacted water encountered during dewatering activities will be pumped from the excavation area and temporarily stored in a frac tank (or other approved tanks) on site until further characterization sampling can be completed. Characterization results below the available USEPA MCLs, or the Tapwater RSLs if no MCLs are listed, may be discharged to the surface using applicable stormwater BMPs outlined in the NPDES Construction Site Permit. The water will be contained as described above until it is characterized and properly disposed.

5.5 Potentially Impacted Water

Terracon will perform the sampling and testing of any potentially impacted containerized groundwater to determine waste classification for off-site disposal. The likely testing requirements and frequency of testing for disposal needs to include liquids testing provided in Table 3 below. The permitted disposal facility will be identified prior to excavation and

construction activities may require a different or reduced analytical methods or sampling frequency. Should the City of Georgetown or their contractor wish to evaluate the containerized liquids for surface discharge, testing requirements and frequency of testing for surface water and groundwater discharges are provided in Table 3 below. Containerized water discharges to the surface will be allowed in accordance with applicable stormwater BMPs outlined in the NPDES General Construction Site Permit and if the analytical characterization results are below the available USEPA MCLs, or the Tapwater RSLs if no MCLs are listed.

Should the contractor wish to dewater potentially impacted containerized groundwater during construction activities under the SCDHEC NPDES General Permit for Stormwater Discharge from Construction Activities SCR100000 permit for surface discharge, the contractor and/or site owner will be responsible for obtaining all required permits from local and/or state regulators.

Table 3. Water Characterization Analytical Methods

Contaminant of Concern	Analytical Method	Sampling Frequency
TCL VOCs	USEPA 5035/8260B	One sample per 22,500-gallons
TCL SVOCs	USEPA 8270C	
TCL PCBs	USEPA 8082	
TCL Pesticides	USEPA 8081A	
TAL Metals (except mercury)	USEPA 6010B/6020	
Mercury	USEPA 7471A	
Cyanide	USEPA 9012	

5.6 Water Sample Collection of Contained Groundwater

Water samples will be procured via a sampling valve on the side of the liquids containment tank, or via a disposable bailer or decontaminated reusable bailer from the top access port if no sample ports are available. Samples from a sampling valve shall be first flushed with a sufficient volume of water prior to collecting the sample from the valve. If bailers are used for the sampling, sufficient volumes of water shall be obtained from the full water column of the tank with special attention made to limit sediment disturbance in the tank. Terracon will collect a representative sample from each frac tank (or treatment system) as followed:

- All samples shall be collected in proper bottles with appropriate preservatives;
- All samples will be placed in coolers on ice until they are received at the laboratory;
- All samples must be delivered to the laboratory within the specific holding time for each analyte.

5.7 Laboratory Analysis

Analytical laboratory analyses will be performed by a SCDHEC certified laboratory. The lab will provide an SCDHEC quality assurance/quality control procedures and guidelines plan upon request from SCDHEC.

6.0 Roles and Responsibilities

Terracon will oversee excavation activities and shall have a qualified environmental specialist in the field to assist in the implementation of this MMP. This environmental specialist shall meet the training requirements of 29 C.F.R. § 1910.120, and all other applicable laws and regulations. The duties and responsibilities of the environmental specialist shall include, but not necessarily be limited to, the following:

- Implementation of the MMP;
- Implementation of the Site-Specific Health and Safety Plan, or contractor's more stringent Health and Safety Plan;
- Confirm potentially impacted soils and water are being managed in accordance with the MMP;
- Conduct sampling and testing of potentially impacted soil and water in accordance with the MMP;
- Confirmation that stockpiles of impacted soil materials for treatment/transport to off-site disposal facilities are managed in accordance with the MMP;
- Confirmation that surface water and groundwater needing to be transported to off-site disposal facilities are being managed in accordance with the MMP, and;

- Documentation of the field activities (volume of soil/water moved off-site/on-site, areas of visual contamination, etc.).

Terracon personnel will be on-site as needed to verify all aspects of the HASP and MMP are adhered to by the contractor and its subcontractors.

7.0 Field Documentation and Reporting

When field oversight and/or sampling is required, all activities will be recorded on field forms by Terracon personnel. Pertinent data will vary based on the site conditions and services requested; however, the following data will be recorded; date, job number, project name, sampling location, excavation depths, sample identification, general lithology, general site, and general site activities, along with any screening results and general observations.

Should excavation activities require off-site disposal, a summary report will be prepared to document the disposal. This report will include any sample results and observations, a site map showing the areas of excavation, locations, and recommendations for additional action, if needed. Additionally, copies of any disposal designating the quantity of materials taken off site and received by the landfill will be provided as an appendix to the report.

The following field documentation, record keeping, and reporting are required to be maintained throughout the work by Terracon upon request and at project close out.

- MMP Acknowledgement Sheet - prior to commencing field activities and upon change of any key personnel, the Contractor, Subcontractors, and Environmental Specialist must provide written documentation that they have read and understand the MMP
- Any corrections/revisions to the MMP
- Field Logs and Activities Summaries – the Environmental Specialist shall submit project activities summaries of work performed and observations (e.g. visible and olfactory observations of contamination, Photoionization Detector (PID) readings, etc.)
- Digital photographs of site activities
- Laboratory results for soil and water characterization
- Waste profile forms
- Waste manifests for soil transported offsite for disposal and/or recycling

8.0 Limitations

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area

during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of this plan. These services were performed in accordance with the scope of work agreed with you, and as reflected in our proposal.

8.1 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services. We cannot represent that the site will contains no hazardous substances, toxic materials, petroleum products, or other latent conditions upon completion of the work. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

8.2 Reliance

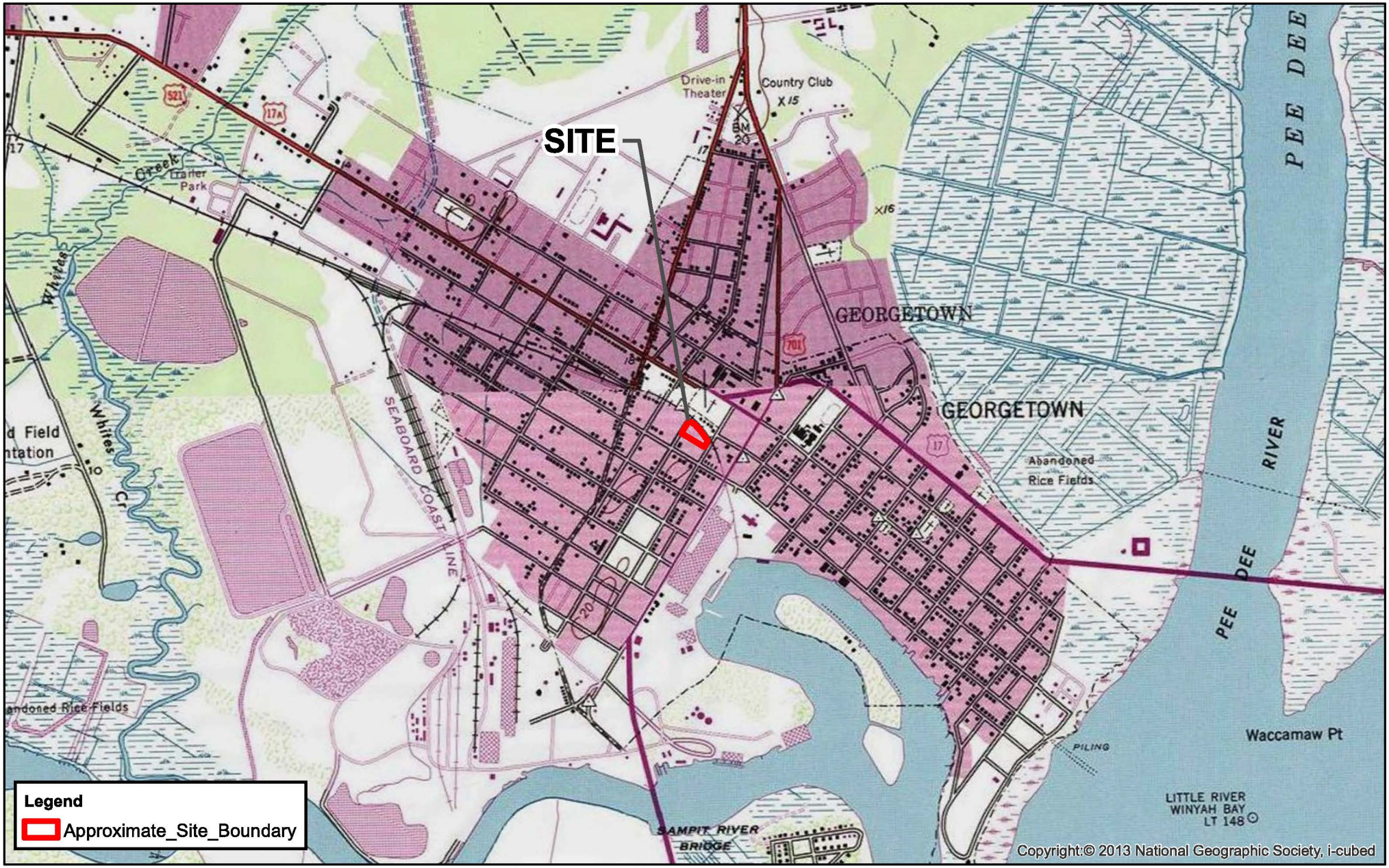
This plan has been prepared for the exclusive use of City of Georgetown and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of the City of Georgetown and Terracon. Any unauthorized distribution or reuse is at the City of Georgetown's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in Terracon's Agreement for Services. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to City of Georgetown and all relying parties unless otherwise agreed in writing.

9.0 References

Terracon Consultants Inc. Phase I Environmental Assessment for the Public Works Laydown Yard dated September 1, 2022.

Terracon Consultants, Inc. Limited Site Investigation for the Public Works Laydown Yard dated December 7, 2022.

Figures



N

0 1,000 2,000 4,000 Feet

Project No.	EN227291
PM:	PJH
Drawn By:	PJH
Date:	8/18/2022

Terracon
Explore with us
1800 Reynolds Avenue N. Charleston, SC 29405
Phone: 843.884.1234 Fax: 843.884.9234

1973 Georgetown South, SC - USGS Topographic Map

Phase I ESA
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

EXHIBIT NO. 1

N

0 50 100 200 Feet

Project No.	EN227366
PM:	PJH
Drawn By:	PJH
Date:	3/8/2023

Terracon
Explore with us
1800 Reynolds Avenue N. Charleston, SC 29405
Phone: 843.884.1234 Fax: 843.884.9234

Previous Approximate Sample Locations

Limited Site Investigation
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

EXHIBIT NO. **2**

N

0 50 100 200 Feet

Project No.	EN227366
PM:	PJH
Drawn By:	PJH
Date:	2/27/2023

Terracon
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1800 Reynolds Avenue N. Charleston, SC 29405
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Approximate Excavation Area Map

Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

EXHIBIT NO. 3

Appendix A
Terracon LSI Report

Limited Site Investigation

Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

December 7, 2022
Terracon Project No. EN227366

Prepared for:
City of Georgetown
Georgetown, South Carolina

Prepared by:
Terracon Consultants, Inc.
North Charleston, South Carolina

December 7, 2022

City of Georgetown
2377 Maybank Drive
PO Box 939
Georgetown, South Carolina 29440

Attn: Mr. Orlando Arteaga P.E.
P: (843) 545-4501
E: oarteaga@georgetownsc.gov

RE: Limited Site Investigation Services
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina
Terracon Proposal No. EN227366

Dear Mr. Arteaga:

Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Limited Site Investigation (LSI) activities completed at the site referenced above. The report presents data from recent field activities that included the completion of temporary monitoring wells, collection of soil vapor and groundwater samples for chemical analysis, and a limited subsurface ground penetrating radar (GPR) survey. The activities were completed to assess soil vapor and shallow groundwater for chemicals commonly associated with reported petroleum use/storage on the site and documented petroleum use on the immediate adjoining properties. In addition, this LSI was conducted to assess potential soil vapor impacts associated within the central portion of the site in areas where redevelopment may occur. Terracon conducted this LSI in general accordance with our proposal (PEN227366) dated September 15, 2022, and your signed Notice to Proceed dated September 21, 2022.

Terracon appreciates this opportunity to provide environmental engineering services to the City of Georgetown, SC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

Patrick Homan
Staff Scientist

For:
Chris Bartley
Authorized Project Reviewer / Senior Scientist

TABLE OF CONTENTS

APPENDICES

LIMITED SITE INVESTIGATION

Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, South Carolina

Terracon Project No. EN227366
December 7, 2022

1.0 INTRODUCTION

1.1 Site Description

The approximate 1.70-acre site is located at 120 North Kaminski Street and 113 North Hazard Street in Georgetown, Georgetown County, South Carolina. The site is comprised of Georgetown County parcel numbers 05-0023-068-00-00 and 05-0023-069-00-00. The approximate center of the site is located at 33.373228° latitude and -79.291860° longitude. The site is currently used as a laydown yard owned and operated by the City of Georgetown. A Topographic Map showing the site location is included as Exhibit 1 in Appendix A.

1.2 Historical Use of the Property

This Limited Site Investigation (LSI) was conducted in response to the results of Terracon's Phase I Environmental Site Assessment (ESA – Report No. EN227291) dated September 1, 2022, which identified the following Recognized Environmental Conditions (RECs) and/or site concerns.

- According to an interview with the current site operator, the site reportedly contains buried materials in the approximate center of the site.
- The City of Georgetown facility at 125 Kaminski Street is a UST and LUST facility located approximately 25-feet west of the site.
- Landy's Cleaners Inc. is a drycleaner facility located approximately 300-feet east of the site at 119 N. Fraser Street.

2.0 SCOPE OF SERVICES

This LSI was conducted to assess soil vapor and shallow groundwater for potential impacts associated with the above-mentioned RECs. In addition, this LSI was conducted to assess potential soil vapor impacts associated within the central portion of the site in areas where redevelopment may occur. The assessment goal was to determine if the site, or areas within the site, could be considered for redevelopment without environmental remedy. The scope of services was not intended to identify every chemical possibly associated with the site. Similarly, the proposed scope was not intended to determine the extent or magnitude of any existing contamination.

2.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These LSI services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-19.

2.2 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

2.3 Reliance

This report has been prepared for the exclusive use of City of Georgetown and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of City of Georgetown and Terracon.

Any unauthorized distribution or reuse is at City of Georgetown's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, and this LSI report. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to City of Georgetown and all relying parties unless otherwise agreed to in writing.

3.0 FIELD INVESTIGATION

3.1 SCDHEC Well Permit

Prior to mobilizing to the site, Terracon obtained written approval for the installation of soil vapor borings and temporary monitoring wells from SCDHEC. Terracon completed and submitted a Monitoring Well Application package to SCDHEC. The package specified the site location, property and well owner information, number and location of proposed wells, well construction specifications, and proposed laboratory analysis. Monitoring well approval (MW-13414) was issued on September 23, 2022. The monitoring well approval requires that all analytical results be submitted to SCDHEC within thirty days of receipt of the analytical reports. A copy of the monitoring well approval is in Appendix C.

3.2 Health and Safety

Terracon conducted the fieldwork under a safety plan developed for this project. Work was performed using United States Environmental Protection Agency (USEPA) Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots.

3.3 Utility Clearance

Terracon contacted South Carolina Palmetto Utility Protection Service (PUPS) prior to field activities and requested location and markings for all utilities that the service was responsible for before commencing intrusive activities at the site. A private utility locating service was also performed to locate utilities and possible underground features in proximity to proposed subsurface disturbance locations.

3.4 GPR Survey

Terracon performed a GPR Survey utilizing a cart-mounted 350-megahertz (MHz) antenna and SIR-4000 controller in the approximate center of the site, in response to reported potentially buried drums on the site. The survey method allowed for data to be interpreted on site in real-time without post-processing. The GPR survey identified approximately 6 potential subsurface anomaly features located in the approximate center of the site. The subsurface anomalies were observed

to be located approximately 3 to 4 feet below ground surface. Additional subsurface anomalies may exist beyond those potentially identified during this GPR Survey. Subsurface conditions may vary from those encountered at the site during other surveys, tests, assessments, investigations, or exploratory services.

3.5 Subsurface Soil Vapor Sampling

Potential vapor intrusion risk to indoor air from possible subsurface contamination sources was evaluated using three subsurface soil vapor probes. Samples were collected using SUMMA canisters and analyzed for VOCs in air via EPA Method TO-15.

Three soil vapor points (SV-1, SV-2, and SV-3) were installed in the proposed future building footprint at the approximate center of the site. A site diagram showing the approximate locations of the subsurface soil vapor borings is included as Exhibit 2 in Appendix A. Soil vapor boring logs are included in Appendix C.

Terracon installed the soil vapor points at approximately 2 feet below ground surface (bgs). Boring refusal was encountered at 2 feet below ground surface.

The sample boring was advanced with a hand auger and a soil vapor sampling point was installed six inches above the bottom of the boring. The stainless-steel point was configured with lateral ports for vapor inlet and a barb fitting on the top to connect to small bore (0.25 inches O.D.) nylon sample tubing. The port was protected from fines by a Teflon disk and stainless-steel screen to prevent clogging. A sand filter pack was placed within the annulus opposite the screen to a height of six inches above the screen point. Granular bentonite was placed in the borehole annulus above the sand pack to the land surface and hydrated. The soil gas implant was capped and allowed to equilibrate overnight.

Prior to sampling, a shut-in test (for vacuum retention) and helium tracer test were conducted at all soil vapor sample locations. Helium tracer gas was introduced into the shroud placed over the sample point and maintained using a valve from a helium tank. A helium gas detector was then connected to the nylon sampling tubing attached to the stainless-steel soil vapor sample point (implant). After the helium detector was allowed to stabilize on the vapor point for approximately five minutes, the helium concentration within vapor point was recorded on field data sheets. To compare the results of the implant, the helium detector was connected to the sample port on the side of the helium shroud. After the helium detector was allowed to stabilize for approximately five minutes the helium concentration within the helium shroud was recorded on field data sheets. The percent of total helium detected in the implant was calculated as a percentage of the total shroud concentration thereby confirming sample point viability.

Results of the shut-in test were favorable with no gauge vacuum change once applied vacuum was completed. The helium detector appeared to not function correctly during the helium tracer

testing performed. Helium gas was detected in the sample tubing at concentration exceeding 15,000 parts per million (ppm) without the introduction of helium into the shroud. Terracon concluded the helium detector equipment was not operating correctly, and based on the results of the shut-in test, sampling from the sample tubing commenced.

Volatile organic vapors were measured prior to sample collection utilizing a MiniRaeTM 3000 Photo-Ionization Detector (PID) meter. The PID was attached to the sample tubing prior to sample collection. The highest PID reading was recorded over a two-minute period. General weather conditions at the time of sampling (temperature, barometric pressure) were recorded for informational purposes.

Summary of PID Field Screening Results

	SV-1 ppm	SV-2 ppm	SV-3 ppm	Ambient Air ppm
PID Highest Recorded Reading 11/9/2022	60	33	8.1	ND

ppm: parts per million
ND: Not Detected

Subsurface soil vapor samples were collected using SUMMA canisters. SUMMA canister samples were shipped to Eurofins Air Toxics, LLC in Folsom California.

Terracon also collected an ambient air sample from a central portion of the site and near the soil vapor sample locations. The equipment blank consisted of a single SUMMA canister sample of ambient air collected through a length of sample tubing.

3.6 Temporary Monitoring Wells and Groundwater Samples

Two (2) temporary monitoring wells were advanced via hand auger to depths of approximately 8.5-feet and 11.2-feet bgs. See the Boring Logs in Appendix C for temporary monitoring well construction details. The temporary monitoring wells were developed by surging and removing groundwater until fluids appeared relatively free of sediment. Following development of the temporary monitoring wells and prior to groundwater sample collection, the wells were purged. In addition to the two temporary monitoring wells, Terracon collected groundwater samples from three existing monitoring wells (MW-11, MW-12, and MW-13) located on the northern portion of the site. The monitoring wells were purged a minimum of three well casing volumes using a peristaltic pump, or until groundwater in the well was dry. Groundwater samples were collected from the monitoring wells utilizing a peristaltic pump and dedicated LDPE tubing to fill laboratory supplied sample containers. During the purging process, the field parameters were measured periodically to ensure representative groundwater is obtained. The measurements were recorded

on groundwater sample sheets following each purging of one well volume of groundwater from the well to evaluate stability. Groundwater samples were collected after the purging of three (3) well volumes and/or if water quality was considered stable by the following requirements:

- Specific conductance varies no more than 10 percent (between the three readings, not compared to an average value),
- Temperature is relatively constant, and
- Turbidity is below 10 Nephelometric Turbidity Units (NTUs).

Upon completion of the purging activities, groundwater samples were collected using low-flow sampling techniques.

3.7 Laboratory Analytical Program

After packaging each sample in laboratory-provided containers, Terracon recorded the sample time on each container label in permanent ink and placed the filled containers in an ice-filled cooler for transport by laboratory courier service. The groundwater samples were shipped via laboratory courier driver for same-day delivery to Eurofins Savannah in Savannah, Georgia (SCDHEC certified laboratory Number 98001001). The soil vapor sample were shipped via FedEx Express to Eurofins Air Toxics, LLC in Folsom California. The soil vapor and groundwater samples were analyzed using the methods listed below in Table 1:

Table 1: Summary of Sample Analysis Methods

Analysis	Sample Type	No. of Samples	Laboratory Method
VOCs	Groundwater	5	EPA Method 8260D
SVOC	Groundwater	5	EPA Method 8270E
RCRA-Metals including Mercury	Groundwater	5	EPA Method 6010D and 7470A
VOCs	Soil Vapor	3	EPA Method TO-15

Notes:
SVOCs - Semi-Volatile Organic Compounds
VOCs - Volatile Organic Compounds
RCRA – Resource Conservation and Recovery Act
Number of samples do not include QA/QC samples

4.0 ANALYTICAL RESULTS

The laboratory analytical report and chain-of-custody records are attached in Appendix D. The following sections describe the results of the testing.

4.1 Subsurface Soil Vapor Sample Results

Three subsurface soil vapor samples were collected from the approximate center of the site in the proposed footprint of the future site building. Soil Vapor analytical data is provided in Table 1 – Summary of Detected Soil Vapor Analytical Results. The soil vapor quality data was compared to the screening levels indicative of a 10^{-6} cancer risk or a hazard quotient of 1 (or 0.1 as applicable) for non-carcinogens based on the Vapor Intrusion Technical Guide. Copies of the laboratory analytical report and chain-of custody are included in Appendix D.

Hexane at SV-3 was detected above the Residential VISL limit of 24,300 µg/m3, but below the Commercial VISL, at 26,000 µg/m3.

SV-1 and SV-3 exceeded the Residential hazard quotient of 1 at 1.12 µg/m3 and 1.20 µg/m3, respectively, but was reported below the Commercial hazard quotient.

Cumulative risk values were calculated for each soil vapor sample location utilizing the Vapor Intrusion Screening Level (VISL) Calculator. Cumulative Risk calculations for the detected soil gas parameters did not exceed the Residential or Commercial risk calculations.

4.2 Ground Water Sample Results

Petroleum odors and/or sheens were not observed in monitoring well sampling. Several analytes were detected in the groundwater samples collected from the site. The groundwater quality data was compared to the primary MCLs in the South Carolina Primary Drinking Water Regulations (R.61-58) or, if not specified in R.61-58, to the RSLs for Tapwater (as listed in the USEPA RSLs Summary Table (version issued: May 2022).

Arsenic was reported above the USEPA MCL of 10 µg/L in TMW-1 at 17.2 µg/L. Based on the EPA MCL exceedance, groundwater on the site should not be used for drinking water purposes.

Multiple analytes were detected below the laboratory method detection limits (MDLs); however, the laboratory MDLs exceed the Tapwater RSLs and/or EPA MCLs. It is Terracon's opinion that these sensitivity failures for this analyte is not indicative of groundwater contamination at the site and does not impact site management decisions.

5.0 CONCLUSIONS

Based on the scope of services described in this report and subject to the limitations described herein, Terracon concludes the following.

- **The GPR survey identified approximately 6 potential subsurface anomaly features located in the approximate center of the site. The subsurface anomalies were observed to be located approximately 3 to 4 feet below ground surface. Additional subsurface anomalies may exist beyond those potentially identified during this GPR Survey. Subsurface conditions may vary from those encountered at the site during other surveys, tests, assessments, investigations, or exploratory services.**

- Groundwater levels at the temporary monitoring wells installed at the site were observed to range from approximately 5.78-8.5 feet below ground surface at the time of the groundwater sampling. No petroleum odors and/or sheens were observed in the temporary monitoring well or during sampling.

- Groundwater levels at the monitoring wells MW-11, MW-12, and MW-13 were observed to range from approximately 9.38-13.04 feet below top of casing at the time of the groundwater sampling. No petroleum odors and/or sheens were observed in the monitoring well or during sampling.

- Hexane at soil vapor sample SV-3 was detected above the Residential VISL limit of 24,300 µg/m3, but below the Commercial VISL, at 26,000 µg/m3.

- Soil vapor samples SV-1 and SV-3 exceeded the Residential hazard quotient of 1 at 1.12 µg/m3 and 1.20 µg/m3, respectively, but was reported below the Commercial hazard quotient.

- Cumulative risk values in were calculated for each soil vapor sample location utilizing the Vapor Intrusion Screening Level (VISL) Calculator. Cumulative Risk calculations for the detected soil gas parameters did not exceed the Residential or Commercial risk calculations.

- Arsenic was reported above the USEPA MCL of 10 µg/L in TMW-1 at 17.2 µg/L. Based on the EPA MCL exceedance, groundwater on the site should not be used for drinking water purposes.

- Multiple analytes were detected below the laboratory method detection limits (MDLs); however, the laboratory MDLs exceed the Tapwater RSLs and/or EPA MCLs. It is Terracon's opinion that these sensitivity failures for this analyte is not indicative of groundwater contamination at the site and does not impact site management decisions.

6.0 RECOMMENDATIONS

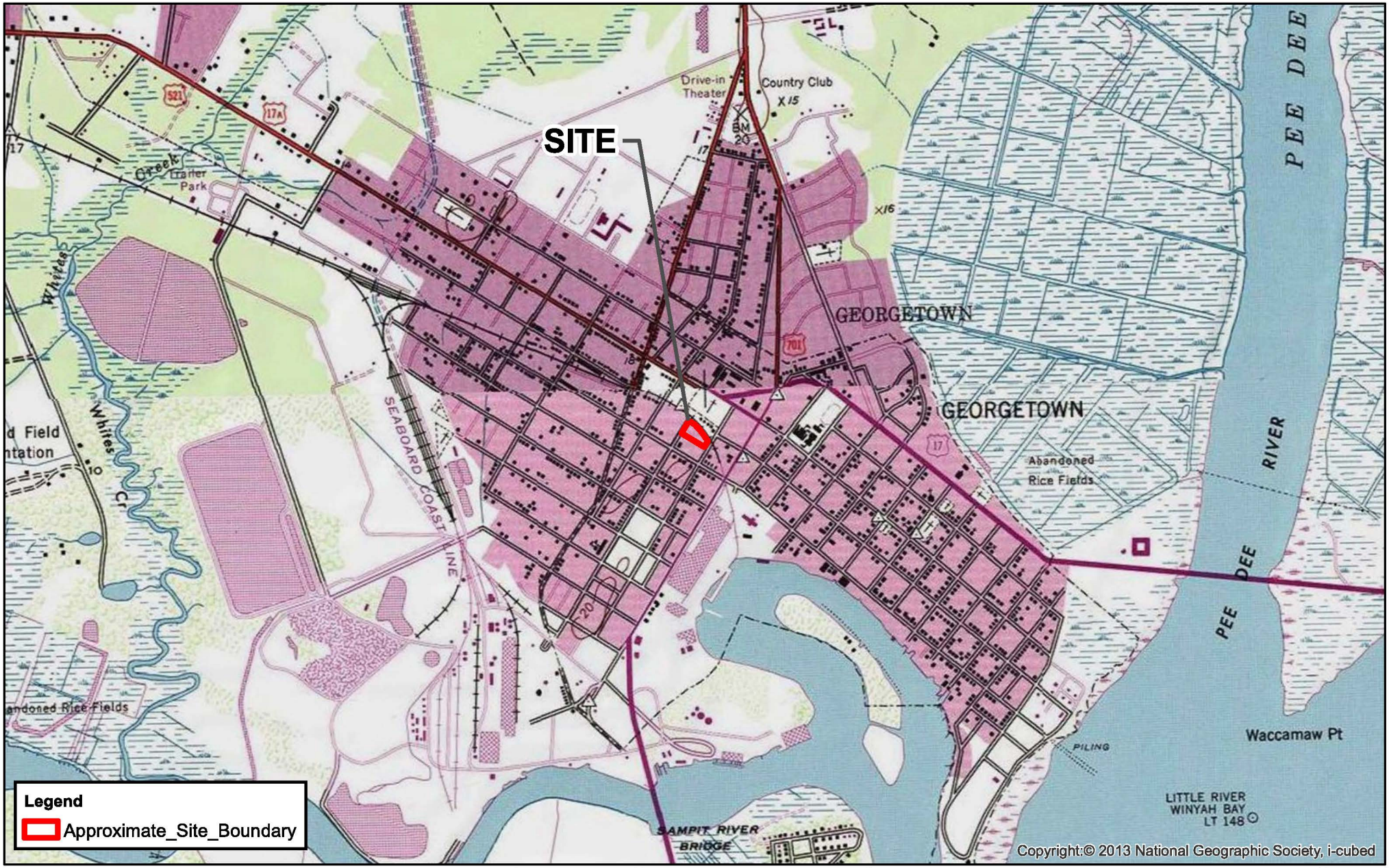
Based on the subsurface GPR survey, Terracon recommends the City of Georgetown contract a licensed subsurface hazardous waste contractor to further investigate the identified anomalies at the site. Drums and/or other containers may be under pressure causing an explosive hazard if not removed by a professional contactor. It is Terracon's opinion that additional impacted media may be encountered during subsurface investigation in connection to the identified anomalies, Terracon recommends preparation of a Media Management Plan (MMP) to outline potential additional hazardous materials identified during excavation activities at the site.

Arsenic in groundwater exceeded the EPA MCL at TMW-1. Groundwater on the site should not be used for drinking water purposes. The site's drinking water source should be provided via municipal water supply. Based on additional groundwater and soil analytical data collected, additional environmental remedy is not recommended at this time.

Terracon recommends submitting a copy of this report in its entirety to the SCDHEC Site Assessment, Remediation and Revitalization (SARR) Division to fulfill the regulations of the monitoring well approval.

APPENDIX A – EXHIBITS

Exhibit 1 – 1973 Georgetown South, SC-USGS Topographic Maps
Exhibit 2 – Approximate Sample Location Diagram



N

0 1,000 2,000 4,000 Feet

Project No.	EN227366
PM:	PJH
Drawn By:	PJH
Date:	12/06/2022

Terracon
Explore with us
1800 Reynolds Avenue N. Charleston, SC 29405
Phone: 843.884.1234 Fax: 843.884.9234

1973 Georgetown South, SC - USGS Topographic Map

LSI
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

EXHIBIT NO. 1

N

0 50 100 200 Feet

Project No.	EN227366
PM:	PJH
Drawn By:	PJH
Date:	12/6/2022

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Approximate Sample Locations

Limited Site Investigation
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

EXHIBIT NO. 2

APPENDIX B – TABLES

Table 1 – Summary of Detected Soil Vapor Analytical Results
Table 2.1 – Summary of Detected Ground Water Analytical Results
Table 2.2 – Summary of Detected Ground Water Analytical Results

Table 1: Summary of Detected Soil Vapor Analytical Results
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
EN227366

Analyte	Residential VISL	Commerical VISL	SV-1	SV-2	SV-3	Ambient Air
	microgram per cubic meter (ug/ m3)	microgram per cubic meter (ug/ m3)	microgram per cubic meter (ug/ m3)	microgram per cubic meter (ug/ m3)	microgram per cubic meter (ug/ m3)	microgram per cubic meter (ug/ m3)
Acetone	1,070,000	4,510,000	1,500	BRL	BRL	BRL
Cyclohexane	209,000	876,000	760	380	840	BRL
Ethanol	NE	NE	BRL	BRL	BRL	40
n-Heptane	13,900	58,400	5,800	4,300	1,700	BRL
n-Hexane	24,300	102,000	17,000	13,000	**26,000**	BRL
Toluene	174,000	730,000	410	300	1,000	4

Notes:

1.) Exposure Scenario: Residential and Commercial, Target Sub-Slab and Near-source soil Gas Concentration (TCR=1E-06 ot THQ=1) Csg, Target (ug/m3)
2.) THQ (Target Hazard Quotient): 1, TR (Target Risk) unitless: 1.00E-06
3.) Bold Exceeds Residential VISL
4.) Highlighted Exceeds Commercial VISL
5.) Qualifiers: E= Estimated (value above quantitation range)
6.) Samples Collected on November 9, 2022
7.) BRL = Below Laboratory Reporting Limit
8.) NE= Not Established

Table 2.1: Summary of Detected Groundwater Analytical Results
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

Analyte	USEPA Tapwater Limits µg/L	USEPA MCLs µg/L	TMW-1 µg/L	TMW-2 µg/L	Trip Blank µg/L
Metals by EPA Method 6010					
Arsenic	0.052	10	**17.2 J**	**<6.40**	NA
Arsenic, Dissolved	0.052	10	NA	**<6.40**	NA
Barium	3800	2000	72.4	75.2	NA
Barium, Dissolved	3800	2000	NA	62.1	NA
Chromium	NE	100	<1.10	1.2 J	NA
Chromium, Dissolved	NE	100	NA	<1.10	NA
Lead	15	15	<6.60	9.76 J	NA
Lead, Dissolved	15	15	<6.60	<6.60	NA
Semivolatile Organic Compounds by EPA Method 8270E					
1-Methylnaphthalen	1.1	NE	**<4.32**	**<4.49**	NA
1,1'-Biphenyl	0.83	NE	**<4.23**	**<4.40**	NA
1,2-Diphenylhydrazir	0.078	NE	**<3.40**	**<3.54**	NA
1,2,4-Trichlorobenze	1.2	70	**<3.13**	**<3.25**	NA
1,2,4,5-Tetrachlorob	0.17	NE	**<4.14**	**<4.30**	NA
1,3-Dinitrobenzene	2	NE	**<3.59**	**<3.73**	NA
1,4-Dichlorobenzene	0.48	75	**<3.04**	**<3.15**	NA
2,4-Dinitrotoluene	0.24	NE	**<2.12**	**<2.20**	NA
2,6-Dinitrotoluene	0.049	NE	**<2.58**	**<2.68**	NA
3,3'-Dichlorobe	0.13	NE	**<9.20**	**<9.56**	NA
4-Chloroaniline	0.37	NE	**<0.920**	**<0.956**	NA
4,6-Dinitro-2-methyl	1.5	NE	**<4.88**	**<5.07**	NA
Atrazine	0.3	3	**<2.02**	**<2.10**	NA
Benzo[a]anthracene	0.03	NE	**<3.86**	**<4.01**	NA
Benzo[a]pyrene	0.025	0.2	**<2.58**	**<2.68**	NA
Benzo[b]fluoranthen	0.25	NE	**<2.85**	**<2.96**	NA
Benzo[k]fluoranthen	2.5	NE	**<2.67**	**<2.77**	NA
Benzyl alcohol	2000	NE	2.92 J	<2.49	NA
Bis(2-chloroethyl)eth	0.014	NE	**<3.31**	**<3.44**	NA
Dibenz(a,h)anthracer	0.025	NE	**<2.76**	**<2.87**	NA
Hexachlorobenzene	0.0098	1	**<1.47**	**<1.53**	NA
Hexachlorobutadien	0.14	NE	**<3.68**	**<3.82**	NA
Hexachlorocyclopent	0.41	50	**<3.22**	**<3.35**	NA
Hexachloroethane	0.33	NE	**<3.31**	**<3.44**	NA
Indeno[1,2,3-cd]pyre	0.25	NE	**<3.96**	**<4.11**	NA
N-Nitrosodi-n-propyl	0.011	NE	**<2.21**	**<2.29**	NA
N-Nitrosodimethylar	0.00011	NE	**<1.93**	**<2.01**	NA
Naphthalene	0.12	NE	**<3.22**	**<3.35**	NA
Nitrobenzene	0.14	NE	**<3.22**	**<3.35**	NA
Pentachlorophenol	0.041	1	**<9.11**	**<9.46**	NA
Volatile Organic Compounds by EPA Method 8260D					
1,1,2-Trichloroethan	0.28	5	**<0.320**	**<0.320**	**<0.320**
1,1,2,2-Tetrachloroe	0.076	NE	**<0.400**	**<0.400**	**<0.400**
1,2-Dibromo-3-Chlor	0.00033	0.2	**<1.80**	**<1.80**	**<1.80**
1,2-Dichloroethane	0.17	5	**<0.250**	**<0.250**	**<0.250**
1,2,3-Trichloropropa	0.00075	NE	**<0.480**	**<0.480**	**<0.480**
4-Isopropyltoluene	NE	NE	<0.440	**45.1 J**	<0.440
Acetone	18000	NE	<3.70	**6.98 J**	**11**
Chloroform	0.22	80	**<0.270**	**<0.270**	**<0.270**
Dichlorobromometh	0.13	80	**<0.250**	**<0.250**	**<0.250**
Ethylbenzene	1.5	700	<0.200	**0.716 J**	<0.200
Ethylene Dibromide	0.0075	0.05	**<0.330**	**<0.330**	**<0.330**
Hexachlorobutadien	0.14	NE	**<0.220**	**<0.220**	**<0.220**
Naphthalene	0.12	NE	**<2.40**	**<2.40**	**<2.40**
Vinyl chloride	0.019	2	**<0.400**	**<0.400**	**<0.400**

Notes:
Bold=Exceeds May 2022 EPA Tapwater RSL
Bold & Highlighted=Exceeds May 2022 EPA MCL
NA=Not analyzed in sample.
NE=Not established by EPA.
J=Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Table 2.2: Summary of Detected Groundwater Analytical Results
Public Works Laydown Yard
120 North Kaminski Street and 113 North Hazard Street
Georgetown, Georgetown County, South Carolina

Analyte	USEPA Tapwater Limits µg/L	USEPA MCLs µg/L	MW-11 µg/L	MW-12 µg/L	MW-13 µg/L	Trip Blank µg/L
Metals by EPA Method 6010						
Arsenic	0.052	10	<6.40	<6.40	<6.40	NA
Barium	3800	2000	92.3	145	97.3	NA
Chromium	NE	100	<1.10	1.22 J	2.82 J	NA
Semivolatile Organic Compounds by EPA Method 8270E						
1-Methylnaphthalen	1.1	NE	<4.44	<4.74	<4.40	NA
1,1'-Biphenyl	0.83	NE	<4.34	<4.64	<4.30	NA
1,2-Diphenylhydrazir	0.078	NE	<3.49	<3.74	<3.46	NA
1,2,4-Trichlorobenze	1.2	70	<3.21	<3.43	<3.18	NA
1,2,4,5-Tetrachlorob	0.17	NE	<4.25	<4.54	<4.21	NA
1,3-Dinitrobenzene	2	NE	<3.68	<3.94	<3.65	NA
1,4-Dichlorobenzene	0.48	75	<3.12	<3.33	<3.09	NA
2,4-Dinitrotoluene	0.24	NE	<2.17	<2.32	<2.15	NA
2,6-Dinitrotoluene	0.049	NE	<2.64	<2.83	<2.62	NA
3,3'-Dichlorobe	0.13	NE	<9.44	<10.1	<9.35	NA
4-Chloroaniline	0.37	NE	<0.944	<1.01	<0.935	NA
4,6-Dinitro-2-methyl	1.5	NE	<5.01	<5.35	<4.96	NA
Atrazine	0.3	3	<2.08	<2.22	<2.06	NA
Benzo[a]anthracene	0.03	NE	<3.97	<4.24	<3.93	NA
Benzo[a]pyrene	0.025	0.2	<2.64	<2.83	<2.62	NA
Benzo[b]fluoranthen	0.25	NE	<2.93	<3.13	<2.90	NA
Benzo[k]fluoranthen	2.5	NE	<2.74	<2.93	<2.71	NA
Benzyl alcohol	2000	NE	<2.46	3.25 J	<2.43	NA
Bis(2-chloroethyl)eth	0.014	NE	<3.40	<3.63	<3.37	NA
Dibenz(a,h)anthracer	0.025	NE	<2.83	<3.03	<2.81	NA
Hexachlorobenzene	0.0098	1	<1.51	<1.62	<1.50	NA
Hexachlorobutadien	0.14	NE	<3.78	<4.04	<3.74	NA
Hexachlorocyclopent	0.41	50	<3.31	<3.53	<3.27	NA
Hexachloroethane	0.33	NE	<3.40	<3.63	<3.37	NA
Indeno[1,2,3-cd]pyre	0.25	NE	<4.06	<4.34	<4.02	NA
N-Nitrosodi-n-propyl	0.011	NE	<2.27	<2.42	<2.25	NA
N-Nitrosodimethylan	0.00011	NE	<1.98	<2.12	<1.96	NA
Naphthalene	0.12	NE	<3.31	5.75 J	<3.27	NA
Nitrobenzene	0.14	NE	<3.31	<3.53	<3.27	NA
Pentachlorophenol	0.041	1	<9.35	<9.99	<9.26	NA
Volatile Organic Compounds by EPA Method 8260D						
1,1,2-Trichloroethan	0.28	5	<0.320	<0.320	<0.320	<0.320
1,1,2,2-Tetrachloroe	0.076	NE	<0.400	<0.400	<0.400	<0.400
1,2-Dibromo-3-Chlor	0.00033	0.2	<1.80	<1.80	<1.80	<1.80
1,2-Dichloroethane	0.17	5	<0.250	<0.250	<0.250	<0.250
1,2,3-Trichloropropa	0.00075	NE	<0.480	<0.480	<0.480	<0.480
Acetone	18000	NE	<3.70	<3.70	7.10 J	10.6
Chloroform	0.22	80	<0.270	<0.270	<0.270	<0.270
Dichlorobromometh	0.13	80	<0.250	<0.250	<0.250	<0.250
Ethylene Dibromide	0.0075	0.05	<0.330	<0.330	<0.330	<0.330
Hexachlorobutadien	0.14	NE	<0.220	<0.220	<0.220	<0.220
Naphthalene	0.12	NE	<2.40	<2.40	<2.40	<2.40
Vinyl chloride	0.019	2	<0.400	<0.400	<0.400	<0.400

Notes:
Bold=Exceeds May 2022 EPA Tapwater RSL
Bold & Highlighted=Exceeds May 2022 EPA MCL
NA=Not analyzed in sample.
NE=Not established by EPA.
J=Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

APPENDIX C – LOGS

SCDHEC Monitoring Well Approval
Boring Logs
SCDHEC 1903: Water Well Record Forms

Temporary Monitoring Well Approval

Approval is hereby granted to:	Patrick Homan/Terracon
on behalf of:	City of Georgetown
Facility:	120 N Kaminski St & 113 N Hazard St
Site Identification:	MW-13414
County:	Georgetown

This approval is for the installation of 2 temporary groundwater-monitoring wells. The temporary wells are to be installed in the locations as illustrated on the submitted map and per the proposed construction details provided by your correspondence dated 9/22/22. The temporary wells are to be installed following all of the applicable requirements of R.61-71.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.

2. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless the Department has approved another schedule. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f

3. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.

4. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c.

5. If any of the information provided to the Department changes, Karen Morrison (803-898-0792, morrisks@dhec.sc.gov) shall be notified a minimum of twenty-four hours prior to well construction as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002.

Date of Issuance: 9/23/22 **Approval #: MW-13414**

Robert Cole, Manager
Division of Site Assessment Remediation & Revitalization (SARR)
Federal & State Site Assessment Section
Bureau of Land & Waste Management

9/23/22

Orlando Arteaga
City of Georgetown
PO Box 939
Georgetown, SC 29440

Re: Temporary Monitoring Well Approval Request received 9/22/22
Georgetown County Site ID: MW-13414

Dear Orlando Arteaga :

The South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed and approved the referenced temporary monitoring well approval request submitted 9/22/22. The original temporary monitoring well approval has been sent to Patrick Homan/Terracon, and a copy is enclosed for your records. The analytical results from the groundwater samples should be submitted to my attention on or before 11/23/22. Please note the following:

- Well construction and sampling derived waste including but not limited to drill cuttings, drilling fluids, and development/purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regards to contents, source, and date of activity.

- Monitoring wells are to yield groundwater samples representative of the zone monitored per R.61-71 H.1.c of the South Carolina Well Standards and Regulations (e.g. low flow sampling techniques are recommended for samples to be analyzed for metals to reduce induced turbidity).

- If this investigation is conducted as part of a potential real estate transaction, the potential purchaser may want to contact SCDHEC's Brownfields Program before this work is performed. The Brownfields Program offers a mechanism to avoid liability for contamination that may be found during this investigation. The investigation proposed may satisfy part or all of the required assessment if pre-approved by the Brownfields Program. The Brownfields Program may be reached at 1-866-576-3432.

If you have any questions, please contact me at (803) 898-0802.

Sincerely,

Robert Cole, Manager
Division of Site Assessment Remediation & Revitalization (SARR)
Federal & State Site Assessment Section

enc: Monitor well approval
cc: SCDHEC EQC Region

Georgetown Public Works Laydown Yard
| Georgetown, South Carolina
Terracon Project No. EN227366

Terracon
1800 Reynolds Ave
North Charleston, SC

Boring Log No. SV-1

Graphic Log	Location: See Exploration Plan Latitude: 33.3734° Longitude: -79.2920° Depth (Ft.)	Installation Details	Depth (Ft.)	Water Level Observations	Sample Type
	SILTY SAND WITH GRAVEL (SM), brown				
	1.0				
	SILTY SAND WITH GRAVEL (SM), dark brown, refusal at 25"				
	2.1 ***Boring Terminated at 2 Feet***				

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Water level not observed

Drill Rig
Hand Auger

Hammer Type
N/A

Driller
A. Ruocco

Logged by
PH

Boring Started
11-08-2022

Boring Completed
11-08-2022

Notes
These boring logs should not be interpreted as Geotechnical data
Boring Terminated at approximately 25 inches below ground surface

Advancement Method

Abandonment Method
Boring backfilled with cement-bentonite grout upon completion.

Georgetown Public Works Laydown Yard
| Georgetown, South Carolina
Terracon Project No. EN227366

Terracon
1800 Reynolds Ave
North Charleston, SC

Boring Log No. SV-2

Graphic Log	Location: See Exploration Plan Latitude: 33.3733° Longitude: -79.2919° Depth (Ft.)	Installation Details	Depth (Ft.)	Water Level Observations	Sample Type
	SILTY SAND (SM), brown				
	1.0				
	SILTY SAND WITH GRAVEL (SM), dark brown, Refusal at 24"				
	2.0				
	Boring Terminated at 2 Feet				

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Water level not observed

Drill Rig
Hand Auger

Hammer Type
N/A

Driller
A. Ruocco

Logged by
PH

Boring Started
11-08-2022

Boring Completed
11-08-2022

Notes
These boring logs should not be interpreted as Geotechnical data
Boring Terminated at approximately 2-feet below ground surface

Advancement Method

Abandonment Method
Boring backfilled with cement-bentonite grout upon completion.

Georgetown Public Works Laydown Yard
| Georgetown, South Carolina
Terracon Project No. EN227366

Terracon
1800 Reynolds Ave
North Charleston, SC

Boring Log No. SV-3

Graphic Log	Location: See Exploration Plan Latitude: 33.3732° Longitude: -79.2917° Depth (Ft.)	Installation Details	Depth (Ft.)	Water Level Observations	Sample Type
	SILTY SAND (SM), brown				
	1.0				
	SILTY SAND WITH GRAVEL (SM), dark brown, refusal at 24"				
	2.0				
	Boring Terminated at 2 Feet				

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Water level not observed

Drill Rig
Hand Auger

Hammer Type
N/A

Driller
A. Ruocco

Logged by
PH

Boring Started
11-08-2022

Boring Completed
11-08-2022

Notes
These boring logs should not be interpreted as Geotechnical data
Boring Terminated at approximately 2-feet below ground surface

Advancement Method

Abandonment Method
Boring backfilled with cement-bentonite grout upon completion.

Georgetown Public Works Laydown Yard
| Georgetown, South Carolina
Terracon Project No. EN227366

Terracon
1800 Reynolds Ave
North Charleston, SC

Boring Log No. TMW-1

Location: See Exploration Plan

Latitude: 33.3736° Longitude: -79.2922°

Depth (Ft.)	Graphic Log	Material Description	Installation Details	Depth (Ft.)	Water Level Observations	Sample Type
0.5		**TOPSOIL**, brown				
1.0		**SILTY SAND (SM)**, tan	1.5' to 0.0' - Bentonite			
2.0		**SILTY SAND (SM)**, light brown to tan				
4.0		**SILTY SAND (SM)**, tan	1.5' to 8.5' - Gravel Pack			
4.5		**SILTY SAND (SM)**, gray				
6.5		**CLAYEY SAND (SC)**, gray	3.5' to 8.5' - 1" (0.010) slotted PVC	5	▽	
8.5		**SILTY SAND (SM)**, gray to brown				
		Boring Terminated at 8.5 Feet				

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
▽ 5.78 feet below ground surface

Drill Rig
Hand Auger

Hammer Type
N/A

Driller
A. Ruocco

Logged by
PH

Well Started
11-07-2022

Well Completed
11-07-2022

Notes
These boring logs should not be interpreted as Geotechnical data

Advancement Method

Abandonment Method
Boring backfilled with cement-bentonite grout upon completion.

Georgetown Public Works Laydown Yard
| Georgetown, South Carolina
Terracon Project No. EN227366

Terracon
1800 Reynolds Ave
North Charleston, SC

Boring Log No. TMW-2

Location: See Exploration Plan

Latitude: 33.3729° Longitude: -79.2915°

Depth (Ft.)	Graphic Log	Material Description	Installation Details	Depth (Ft.)	Water Level Observations	Sample Type
0.0		**SILTY SAND WITH GRAVEL (SM)**, dark brown	2' to 0.0' - Bentonite 2' to 11.2' - Gravel Pack			
4.0		**SILTY SAND (SM)**, tan				
5.0		**CLAYEY SAND (SC)**, dark gray		5		
6.0		**SILTY SAND (SM)**, gray	6' to 11.2' - 1" (0.010) slotted PVC			
8.0		**CLAYEY SAND (SC)**, gray			▽	
				10		
11.0		***Boring Terminated at 11.2 Feet***				

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
▽ 8.5 feet below ground surface

Drill Rig
Hand Auger

Hammer Type
N/A

Driller
A. Ruocco

Logged by
PH

Well Started
11-08-2022

Well Completed
11-08-2022

Notes
These boring logs should not be interpreted as Geotechnical data

Advancement Method

Abandonment Method
Boring backfilled with cement-bentonite grout upon completion.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: City of Georgetown (last) (first)
Address: PO Box 939
City: Georgetown State: SC Zip: 29440-0000
Telephone: Work: (843) 545-4501 Home:

2. LOCATION OF WELL: TMW-1 **COUNTY:** Georgetown
Name: Public Works Laydown Yard
Street Address: 120 N Kaminski Street & 113 N Hazard
City: Georgetown Zip: 29440-0000
Latitude: 33.3736° Longitude: -79.2922°

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 8.5 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Refer to boring logs		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-13414

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 8.5 ft. Date Started: 11/07/2022 Date Completed: 11/07/2022

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to 3.5 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface 1.5 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Slotted Diam.: 1"
Slot/Gauge: _____ Length: _____
Set Between: 3.5 ft. and 8.5 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 5.78 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from 8.5 ft. to 1.5 ft.
Effective size 20/40 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 1.5 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: 80 ft. W direction
Type Petroleum
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Andy Ruocco **CERT. NO.:** 2038
Address: (Print) Level: A (B) C D (circle one)
1800 Reynolds Avenue
North Charleston, SC 29405
Telephone No.: (843) 884-1234 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 12/05/2022
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:
Name: City of Georgetown (last) (first)
Address: PO Box 939
City: Georgetown State: SC Zip: 29440-0000
Telephone: Work: (843) 545-4501 Home:

2. LOCATION OF WELL: TMW-2 **COUNTY:** Georgetown
Name: Public Works Laydown Yard
Street Address: 120 N Kaminski Street & 113 N Hazard
City: Georgetown Zip: 29440-0000
Latitude: 33.3729° Longitude: -79.2915°

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 11.2 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Refer to boring logs		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other

7. PERMIT NUMBER: MW-13414

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 11.2 ft. Date Started: 11/08/2022 Date Completed: 11/08/2022

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to 6 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface -1 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Slotted Diam.: 1"
Slot/Gauge: _____ Length: _____
Set Between: 6 ft. and 11 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 8.5 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from 11.2 ft. to 2 ft.
Effective size 20/40 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: 100 ft. N direction
Type Petroleum
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Andy Ruocco **CERT. NO.:** 2038
Address: (Print) Level: A (B) C D (circle one)
1800 Reynolds Avenue
North Charleston, SC 29405
Telephone No.: (843) 884-1234 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 12/05/2022
Well Driller

If D Level Driller, provide supervising driller's name:

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Homan
Terracon Consultants, Inc.
1800 Reynolds Ave.
North Charleston, South Carolina 29405

Generated 11/29/2022 3:23:07 PM

JOB DESCRIPTION

Public Works Laydow Yard LSI

JOB NUMBER

680-226399-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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11/29/2022 3:23:07 PM

Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydow Yard LSI

Job ID: 680-226399-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-226399-1	SV-1	Air - Summa Cannister	11/09/22 16:21	11/11/22 09:32
680-226399-2	SV-2	Air - Summa Cannister	11/09/22 15:59	11/11/22 09:32
680-226399-3	SV-3	Air - Summa Cannister	11/09/22 15:36	11/11/22 09:32
680-226399-4	Ambient Air	Air - Summa Cannister	11/09/22 16:58	11/11/22 09:32

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydow Yard LSI

Job ID: 680-226399-1

Method	Method Description	Protocol	Laboratory
Subcontract	TO-15	None	Eurofins

Protocol References:

None = None

Laboratory References:

Eurofins = Eurofins Air Toxics, 180 Blue Ravine Road, Suite B, Folsom, CA 95630

11/22/2022
Mr. Chad Bechtold
Eurofins Test America
2846 Industrial Plaza Drive

Tallahassee FL 32301

Project Name: Public Works Laydow Yard LSI
Project #: EN227366
Workorder #: 2211294

Dear Mr. Chad Bechtold

The following report includes the data for the above referenced project for sample(s) received on 11/11/2022 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2211294

Work Order Summary

CLIENT:	Mr. Chad Bechtold Eurofins Environment Testing 2846 Industrial Plaza Drive Tallahassee, FL 32301	**BILL TO:**	Accounts Payable Eurofins Environment Testing 4104 Shuffel St NW North Canton, OH 44720
PHONE:	850-878-3994	**P.O. #**	
FAX:		**PROJECT #**	EN227366 Public Works Laydow Yard LSI
DATE RECEIVED:	11/11/2022	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/18/2022		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1	TO-15	2.6 "Hg	10.2 psi
02A	SV-2	TO-15	2.6 "Hg	9.8 psi
03A	SV-3	TO-15	2.6 "Hg	9.9 psi
04A	Ambient Air	TO-15	4.7 "Hg	10 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/18/22

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209221, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT NELAP – CA009332021-13, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Test America
Workorder# 2211294

Four 1 Liter Summa Canister samples were received on November 11, 2022. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SV-1, SV-2 and SV-3 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-1

Lab ID#: 2211294-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	580	640	1400	1500
Hexane	58	4900	200	17000
Cyclohexane	58	220	200	760
Heptane	58	1400	240	5800
Toluene	58	110	220	410

Client Sample ID: SV-2

Lab ID#: 2211294-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	46	3600	160	13000
Cyclohexane	46	110	160	380
Heptane	46	1000	190	4300
Toluene	46	80	170	300

Client Sample ID: SV-3

Lab ID#: 2211294-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	230	7300	810	26000
Cyclohexane	230	240	790	840
Heptane	230	420	940	1700
Toluene	230	270	870	1000

Client Sample ID: Ambient Air

Lab ID#: 2211294-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	10	21	19	40
Toluene	1.0	1.1	3.8	4.0

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Client Sample ID: SV-1

Lab ID#: 2211294-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111618**	**Date of Collection:**	**11/9/22 4:21:00 PM**
Dil. Factor:	**116**	**Date of Analysis:**	**11/16/22 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	58	Not Detected	290	Not Detected
Freon 114	58	Not Detected	400	Not Detected
Chloromethane	580	Not Detected	1200	Not Detected
Vinyl Chloride	58	Not Detected	150	Not Detected
1,3-Butadiene	58	Not Detected	130	Not Detected
Bromomethane	580	Not Detected	2200	Not Detected
Chloroethane	230	Not Detected	610	Not Detected
Freon 11	58	Not Detected	320	Not Detected
Ethanol	580	Not Detected	1100	Not Detected
Freon 113	58	Not Detected	440	Not Detected
1,1-Dichloroethene	58	Not Detected	230	Not Detected
Acetone	580	640	1400	1500
2-Propanol	230	Not Detected	570	Not Detected
Carbon Disulfide	230	Not Detected	720	Not Detected
3-Chloropropene	230	Not Detected	730	Not Detected
Methylene Chloride	580	Not Detected	2000	Not Detected
Methyl tert-butyl ether	230	Not Detected	840	Not Detected
trans-1,2-Dichloroethene	58	Not Detected	230	Not Detected
Hexane	58	4900	200	17000
1,1-Dichloroethane	58	Not Detected	230	Not Detected
2-Butanone (Methyl Ethyl Ketone)	230	Not Detected	680	Not Detected
cis-1,2-Dichloroethene	58	Not Detected	230	Not Detected
Tetrahydrofuran	58	Not Detected	170	Not Detected
Chloroform	58	Not Detected	280	Not Detected
1,1,1-Trichloroethane	58	Not Detected	320	Not Detected
Cyclohexane	58	220	200	760
Carbon Tetrachloride	58	Not Detected	360	Not Detected
2,2,4-Trimethylpentane	58	Not Detected	270	Not Detected
Benzene	58	Not Detected	180	Not Detected
1,2-Dichloroethane	58	Not Detected	230	Not Detected
Heptane	58	1400	240	5800
Trichloroethene	58	Not Detected	310	Not Detected
1,2-Dichloropropane	58	Not Detected	270	Not Detected
1,4-Dioxane	230	Not Detected	840	Not Detected
Bromodichloromethane	58	Not Detected	390	Not Detected
cis-1,3-Dichloropropene	58	Not Detected	260	Not Detected
4-Methyl-2-pentanone	58	Not Detected	240	Not Detected
Toluene	58	110	220	410
trans-1,3-Dichloropropene	58	Not Detected	260	Not Detected
1,1,2-Trichloroethane	58	Not Detected	320	Not Detected
Tetrachloroethene	58	Not Detected	390	Not Detected
2-Hexanone	230	Not Detected	950	Not Detected

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Client Sample ID: SV-1

Lab ID#: 2211294-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111618**	**Date of Collection:**	**11/9/22 4:21:00 PM**
Dil. Factor:	**116**	**Date of Analysis:**	**11/16/22 08:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	58	Not Detected	490	Not Detected
1,2-Dibromoethane (EDB)	58	Not Detected	440	Not Detected
Chlorobenzene	58	Not Detected	270	Not Detected
Ethyl Benzene	58	Not Detected	250	Not Detected
m,p-Xylene	58	Not Detected	250	Not Detected
o-Xylene	58	Not Detected	250	Not Detected
Styrene	58	Not Detected	250	Not Detected
Bromoform	58	Not Detected	600	Not Detected
Cumene	58	Not Detected	280	Not Detected
1,1,2,2-Tetrachloroethane	58	Not Detected	400	Not Detected
Propylbenzene	58	Not Detected	280	Not Detected
4-Ethyltoluene	58	Not Detected	280	Not Detected
1,3,5-Trimethylbenzene	58	Not Detected	280	Not Detected
1,2,4-Trimethylbenzene	58	Not Detected	280	Not Detected
1,3-Dichlorobenzene	58	Not Detected	350	Not Detected
1,4-Dichlorobenzene	58	Not Detected	350	Not Detected
alpha-Chlorotoluene	58	Not Detected	300	Not Detected
1,2-Dichlorobenzene	58	Not Detected	350	Not Detected
1,2,4-Trichlorobenzene	230	Not Detected	1700	Not Detected
Hexachlorobutadiene	230	Not Detected	2500	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: SV-2

Lab ID#: 2211294-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111619**	**Date of Collection:**	**11/9/22 3:59:00 PM**
Dil. Factor:	**91.2**	**Date of Analysis:**	**11/16/22 08:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	46	Not Detected	220	Not Detected
Freon 114	46	Not Detected	320	Not Detected
Chloromethane	460	Not Detected	940	Not Detected
Vinyl Chloride	46	Not Detected	120	Not Detected
1,3-Butadiene	46	Not Detected	100	Not Detected
Bromomethane	460	Not Detected	1800	Not Detected
Chloroethane	180	Not Detected	480	Not Detected
Freon 11	46	Not Detected	260	Not Detected
Ethanol	460	Not Detected	860	Not Detected
Freon 113	46	Not Detected	350	Not Detected
1,1-Dichloroethene	46	Not Detected	180	Not Detected
Acetone	460	Not Detected	1100	Not Detected
2-Propanol	180	Not Detected	450	Not Detected
Carbon Disulfide	180	Not Detected	570	Not Detected
3-Chloropropene	180	Not Detected	570	Not Detected
Methylene Chloride	460	Not Detected	1600	Not Detected
Methyl tert-butyl ether	180	Not Detected	660	Not Detected
trans-1,2-Dichloroethene	46	Not Detected	180	Not Detected
Hexane	46	3600	160	13000
1,1-Dichloroethane	46	Not Detected	180	Not Detected
2-Butanone (Methyl Ethyl Ketone)	180	Not Detected	540	Not Detected
cis-1,2-Dichloroethene	46	Not Detected	180	Not Detected
Tetrahydrofuran	46	Not Detected	130	Not Detected
Chloroform	46	Not Detected	220	Not Detected
1,1,1-Trichloroethane	46	Not Detected	250	Not Detected
Cyclohexane	46	110	160	380
Carbon Tetrachloride	46	Not Detected	290	Not Detected
2,2,4-Trimethylpentane	46	Not Detected	210	Not Detected
Benzene	46	Not Detected	140	Not Detected
1,2-Dichloroethane	46	Not Detected	180	Not Detected
Heptane	46	1000	190	4300
Trichloroethene	46	Not Detected	240	Not Detected
1,2-Dichloropropane	46	Not Detected	210	Not Detected
1,4-Dioxane	180	Not Detected	660	Not Detected
Bromodichloromethane	46	Not Detected	300	Not Detected
cis-1,3-Dichloropropene	46	Not Detected	210	Not Detected
4-Methyl-2-pentanone	46	Not Detected	190	Not Detected
Toluene	46	80	170	300
trans-1,3-Dichloropropene	46	Not Detected	210	Not Detected
1,1,2-Trichloroethane	46	Not Detected	250	Not Detected
Tetrachloroethene	46	Not Detected	310	Not Detected
2-Hexanone	180	Not Detected	750	Not Detected

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Client Sample ID: SV-2

Lab ID#: 2211294-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111619**	**Date of Collection:**	**11/9/22 3:59:00 PM**
Dil. Factor:	**91.2**	**Date of Analysis:**	**11/16/22 08:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	46	Not Detected	390	Not Detected
1,2-Dibromoethane (EDB)	46	Not Detected	350	Not Detected
Chlorobenzene	46	Not Detected	210	Not Detected
Ethyl Benzene	46	Not Detected	200	Not Detected
m,p-Xylene	46	Not Detected	200	Not Detected
o-Xylene	46	Not Detected	200	Not Detected
Styrene	46	Not Detected	190	Not Detected
Bromoform	46	Not Detected	470	Not Detected
Cumene	46	Not Detected	220	Not Detected
1,1,2,2-Tetrachloroethane	46	Not Detected	310	Not Detected
Propylbenzene	46	Not Detected	220	Not Detected
4-Ethyltoluene	46	Not Detected	220	Not Detected
1,3,5-Trimethylbenzene	46	Not Detected	220	Not Detected
1,2,4-Trimethylbenzene	46	Not Detected	220	Not Detected
1,3-Dichlorobenzene	46	Not Detected	270	Not Detected
1,4-Dichlorobenzene	46	Not Detected	270	Not Detected
alpha-Chlorotoluene	46	Not Detected	240	Not Detected
1,2-Dichlorobenzene	46	Not Detected	270	Not Detected
1,2,4-Trichlorobenzene	180	Not Detected	1400	Not Detected
Hexachlorobutadiene	180	Not Detected	1900	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SV-3

Lab ID#: 2211294-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111620**	**Date of Collection:**	**11/9/22 3:36:00 PM**
Dil. Factor:	**460**	**Date of Analysis:**	**11/16/22 09:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	230	Not Detected	1100	Not Detected
Freon 114	230	Not Detected	1600	Not Detected
Chloromethane	2300	Not Detected	4700	Not Detected
Vinyl Chloride	230	Not Detected	590	Not Detected
1,3-Butadiene	230	Not Detected	510	Not Detected
Bromomethane	2300	Not Detected	8900	Not Detected
Chloroethane	920	Not Detected	2400	Not Detected
Freon 11	230	Not Detected	1300	Not Detected
Ethanol	2300	Not Detected	4300	Not Detected
Freon 113	230	Not Detected	1800	Not Detected
1,1-Dichloroethene	230	Not Detected	910	Not Detected
Acetone	2300	Not Detected	5500	Not Detected
2-Propanol	920	Not Detected	2300	Not Detected
Carbon Disulfide	920	Not Detected	2900	Not Detected
3-Chloropropene	920	Not Detected	2900	Not Detected
Methylene Chloride	2300	Not Detected	8000	Not Detected
Methyl tert-butyl ether	920	Not Detected	3300	Not Detected
trans-1,2-Dichloroethene	230	Not Detected	910	Not Detected
Hexane	230	7300	810	26000
1,1-Dichloroethane	230	Not Detected	930	Not Detected
2-Butanone (Methyl Ethyl Ketone)	920	Not Detected	2700	Not Detected
cis-1,2-Dichloroethene	230	Not Detected	910	Not Detected
Tetrahydrofuran	230	Not Detected	680	Not Detected
Chloroform	230	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	230	Not Detected	1200	Not Detected
Cyclohexane	230	240	790	840
Carbon Tetrachloride	230	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	230	Not Detected	1100	Not Detected
Benzene	230	Not Detected	730	Not Detected
1,2-Dichloroethane	230	Not Detected	930	Not Detected
Heptane	230	420	940	1700
Trichloroethene	230	Not Detected	1200	Not Detected
1,2-Dichloropropane	230	Not Detected	1100	Not Detected
1,4-Dioxane	920	Not Detected	3300	Not Detected
Bromodichloromethane	230	Not Detected	1500	Not Detected
cis-1,3-Dichloropropene	230	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	230	Not Detected	940	Not Detected
Toluene	230	270	870	1000
trans-1,3-Dichloropropene	230	Not Detected	1000	Not Detected
1,1,2-Trichloroethane	230	Not Detected	1200	Not Detected
Tetrachloroethene	230	Not Detected	1600	Not Detected
2-Hexanone	920	Not Detected	3800	Not Detected

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Client Sample ID: SV-3

Lab ID#: 2211294-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111620**	**Date of Collection:**	**11/9/22 3:36:00 PM**
Dil. Factor:	**460**	**Date of Analysis:**	**11/16/22 09:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	230	Not Detected	2000	Not Detected
1,2-Dibromoethane (EDB)	230	Not Detected	1800	Not Detected
Chlorobenzene	230	Not Detected	1000	Not Detected
Ethyl Benzene	230	Not Detected	1000	Not Detected
m,p-Xylene	230	Not Detected	1000	Not Detected
o-Xylene	230	Not Detected	1000	Not Detected
Styrene	230	Not Detected	980	Not Detected
Bromoform	230	Not Detected	2400	Not Detected
Cumene	230	Not Detected	1100	Not Detected
1,1,2,2-Tetrachloroethane	230	Not Detected	1600	Not Detected
Propylbenzene	230	Not Detected	1100	Not Detected
4-Ethyltoluene	230	Not Detected	1100	Not Detected
1,3,5-Trimethylbenzene	230	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	230	Not Detected	1100	Not Detected
1,3-Dichlorobenzene	230	Not Detected	1400	Not Detected
1,4-Dichlorobenzene	230	Not Detected	1400	Not Detected
alpha-Chlorotoluene	230	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	230	Not Detected	1400	Not Detected
1,2,4-Trichlorobenzene	920	Not Detected	6800	Not Detected
Hexachlorobutadiene	920	Not Detected	9800	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: Ambient Air

Lab ID#: 2211294-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111621**	**Date of Collection:**	**11/9/22 4:58:00 PM**
Dil. Factor:	**2.00**	**Date of Analysis:**	**11/16/22 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	4.9	Not Detected
Freon 114	1.0	Not Detected	7.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Chloroethane	4.0	Not Detected	10	Not Detected
Freon 11	1.0	Not Detected	5.6	Not Detected
Ethanol	10	21	19	40
Freon 113	1.0	Not Detected	7.7	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Acetone	10	Not Detected	24	Not Detected
2-Propanol	4.0	Not Detected	9.8	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
3-Chloropropene	4.0	Not Detected	12	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Hexane	1.0	Not Detected	3.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	2.9	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.4	Not Detected
Cyclohexane	1.0	Not Detected	3.4	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.0	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.6	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Bromodichloromethane	1.0	Not Detected	6.7	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.5	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Toluene	1.0	1.1	3.8	4.0
trans-1,3-Dichloropropene	1.0	Not Detected	4.5	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.4	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected

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Client Sample ID: Ambient Air

Lab ID#: 2211294-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111621**	**Date of Collection:**	**11/9/22 4:58:00 PM**
Dil. Factor:	**2.00**	**Date of Analysis:**	**11/16/22 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.5	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.7	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	Not Detected	4.3	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	1.0	Not Detected	4.3	Not Detected
Styrene	1.0	Not Detected	4.2	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	4.9	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
Propylbenzene	1.0	Not Detected	4.9	Not Detected
4-Ethyltoluene	1.0	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2211294-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 10:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2211294-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111605a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 10:34 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 2211294-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 09:12 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	104
Chloromethane	113
Vinyl Chloride	110
1,3-Butadiene	111
Bromomethane	116
Chloroethane	91
Freon 11	110
Ethanol	75
Freon 113	101
1,1-Dichloroethene	100
Acetone	97
2-Propanol	92
Carbon Disulfide	92
3-Chloropropene	90
Methylene Chloride	104
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	97
Hexane	102
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	102
Tetrahydrofuran	99
Chloroform	101
1,1,1-Trichloroethane	102
Cyclohexane	100
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	106
Benzene	103
1,2-Dichloroethane	105
Heptane	101
Trichloroethene	107
1,2-Dichloropropane	100
1,4-Dioxane	98
Bromodichloromethane	109
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	101
Toluene	106
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	99
Tetrachloroethene	106
2-Hexanone	95

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Client Sample ID: CCV

Lab ID#: 2211294-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 09:12 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	98
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	104
Styrene	102
Bromoform	110
Cumene	106
1,1,2,2-Tetrachloroethane	98
Propylbenzene	104
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2211294-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 09:39 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	103	70-130
Chloromethane	122	70-130
Vinyl Chloride	113	70-130
1,3-Butadiene	111	70-130
Bromomethane	109	70-130
Chloroethane	98	70-130
Freon 11	110	70-130
Ethanol	83	70-130
Freon 113	101	70-130
1,1-Dichloroethene	98	70-130
Acetone	94	70-130
2-Propanol	102	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	92	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	99	70-130
Hexane	102	70-130
1,1-Dichloroethane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
cis-1,2-Dichloroethene	103	70-130
Tetrahydrofuran	98	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	104	70-130
Cyclohexane	102	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	107	70-130
Benzene	104	70-130
1,2-Dichloroethane	107	70-130
Heptane	103	70-130
Trichloroethene	110	70-130
1,2-Dichloropropane	102	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	109	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	103	70-130
Toluene	106	70-130
trans-1,3-Dichloropropene	101	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	109	70-130
2-Hexanone	104	70-130

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Client Sample ID: LCS

Lab ID#: 2211294-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 09:39 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	104	70-130
o-Xylene	105	70-130
Styrene	108	70-130
Bromoform	113	70-130
Cumene	108	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	108	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	108	70-130
1,2-Dichlorobenzene	109	70-130
1,2,4-Trichlorobenzene	120	70-130
Hexachlorobutadiene	128	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 2211294-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 10:05 AM**	

Compound	%Recovery	Method Limits
Freon 12	110	70-130
Freon 114	104	70-130
Chloromethane	121	70-130
Vinyl Chloride	115	70-130
1,3-Butadiene	111	70-130
Bromomethane	109	70-130
Chloroethane	101	70-130
Freon 11	110	70-130
Ethanol	84	70-130
Freon 113	102	70-130
1,1-Dichloroethene	101	70-130
Acetone	97	70-130
2-Propanol	104	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	95	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	100	70-130
Hexane	104	70-130
1,1-Dichloroethane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	104	70-130
Tetrahydrofuran	100	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	103	70-130
1,2-Dichloroethane	107	70-130
Heptane	104	70-130
Trichloroethene	110	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	107	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	104	70-130
Toluene	105	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	108	70-130
2-Hexanone	104	70-130

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Client Sample ID: LCSD

Lab ID#: 2211294-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/16/22 10:05 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	104	70-130
o-Xylene	104	70-130
Styrene	107	70-130
Bromoform	112	70-130
Cumene	108	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	107	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	108	70-130
1,2-Dichlorobenzene	108	70-130
1,2,4-Trichlorobenzene	120	70-130
Hexachlorobutadiene	128	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	102	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2211294

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Client: Terracon Consultants Inc.
Project Name: Public Works Laydown Yard LSI
Project Manager: Patrick Homan Project # EN227366
Sampler: Patrick Homan
Site Name:

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Standard _____ Rush _____(specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses				
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15 (Vx)				
01A	SV-1	N3841	23377	11-9-22	1613	11-9-22	1621	29	3.5			X				
02A	SV-2	N7035	24890	11-9-22	1552	11-9-22	1559	28	3.5			X				
03A	SV-3	N3442	24223	11-9-22	1529	11-9-22	1536	27	3.5			X				
04A	Ambient Air	1L1643	24144	11-9-22	1651	11-9-22	1658	29	3.5			X				

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	11-10-22	1010	[signature] ENTL	11-11-22	0932
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Homan
Terracon Consultants, Inc.
1800 Reynolds Ave.
North Charleston, South Carolina 29405

Generated 11/28/2022 6:35:18 PM

JOB DESCRIPTION

Public Works Laydown Yard LSI

JOB NUMBER

680-225317-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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11/28/2022 6:35:18 PM

Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225317-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-225317-1	MW-11	Water	11/09/22 09:40	11/11/22 17:00
680-225317-2	MW-12	Water	11/09/22 10:55	11/11/22 17:00
680-225317-3	MW-13	Water	11/09/22 12:31	11/11/22 17:00
680-225317-4	Trip Blank -2	Water	11/09/22 00:00	11/11/22 17:00

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225317-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job ID: 680-225317-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-225317-1

Receipt
The samples were received on 11/11/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.0°C and 5.1°C

GC/MS VOA
Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-751111 recovered outside control limits for the following analytes: Trichlorofluoromethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-751111 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Surrogate recovery for the following sample was outside control limits: (680-225352-E-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: A single point list 2 calibration standard was run in the batch.MW-11 (680-225317-1), MW-13 (680-225317-3), (680-225352-E-2), (680-225352-E-2 MS) and (680-225352-E-2 MSD)

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-751094 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane and Trichlorofluoromethane. These results have been reported and qualified.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-751094 recovered outside control limits for the following analytes: 1,1-Dichloroethene, Dichlorodifluoromethane and Trichlorofluoromethane.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: (680-225352-E-2), (680-225352-E-2 MS) and (680-225352-E-2 MSD). 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 8270E: The following sample: MW-12 (680-225317-2) was decanted prior to preparation due to the presence of a sediment layer at the bottom of sample container.

Method 8270E: A portion of the following sample was used for analysis, rather than testing the entire sample amount in the original container, due to the sample was decanted prior to extraction: MW-12 (680-225317-2). As such, the required solvent rinse of the original container could not be performed.

Method 8270E: The laboratory control sample duplicate (LCSD) for preparation batch 680-750563 and analytical batch 680-751183 recovered outside control limits for the following analyte: 3,3'-Dichlorobenzidine. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E: Surrogate recovery for the following sample was outside acceptance limits: MW-11 (680-225317-1). Sample was not re-extracted since the sample was past the holding time for re-extraction.

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

Metals

Job ID: 680-225317-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

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

Detection Summary

Client: Terracon Consultants, Inc.
Job ID: 680-225317-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: MW-11 — Lab Sample ID: 680-225317-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	92.3		10.0	4.40	ug/L	1		6010D	Total Recoverable

Client Sample ID: MW-12 — Lab Sample ID: 680-225317-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol	3.25	J	10.1	2.62	ug/L	1		8270E	Total/NA
Naphthalene	5.75	J	10.1	3.53	ug/L	1		8270E	Total/NA
Barium	145		10.0	4.40	ug/L	1		6010D	Total Recoverable
Chromium	1.22	J	10.0	1.10	ug/L	1		6010D	Total Recoverable

Client Sample ID: MW-13 — Lab Sample ID: 680-225317-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.10	J	10.0	3.70	ug/L	1		8260D	Total/NA
Barium	97.3		10.0	4.40	ug/L	1		6010D	Total Recoverable
Chromium	2.82	J	10.0	1.10	ug/L	1		6010D	Total Recoverable

Client Sample ID: Trip Blank -2 — Lab Sample ID: 680-225317-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10.6		10.0	3.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Terracon Consultants, Inc.
Job ID: 680-225317-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: MW-11
Lab Sample ID: 680-225317-1
Date Collected: 11/09/22 09:40
Matrix: Water
Date Received: 11/11/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/17/22 20:30	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/17/22 20:30	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/17/22 20:30	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/17/22 20:30	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/17/22 20:30	1
1,1-Dichloroethene	<0.330	*1	1.00	0.330	ug/L			11/17/22 20:30	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/17/22 20:30	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			11/17/22 20:30	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/17/22 20:30	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			11/17/22 20:30	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 20:30	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/17/22 20:30	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 20:30	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/17/22 20:30	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/17/22 20:30	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/17/22 20:30	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/17/22 20:30	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 20:30	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/17/22 20:30	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 20:30	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/17/22 20:30	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/17/22 20:30	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/17/22 20:30	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/17/22 20:30	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/17/22 20:30	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/17/22 20:30	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/17/22 20:30	1
Acetone	<3.70		10.0	3.70	ug/L			11/17/22 20:30	1
Benzene	<0.270		1.00	0.270	ug/L			11/17/22 20:30	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/17/22 20:30	1
Bromoform	<0.590		1.00	0.590	ug/L			11/17/22 20:30	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/17/22 20:30	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/17/22 20:30	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/17/22 20:30	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/17/22 20:30	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/17/22 20:30	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/17/22 20:30	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/17/22 20:30	1
Chloroform	<0.270		1.00	0.270	ug/L			11/17/22 20:30	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/17/22 20:30	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/17/22 20:30	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/17/22 20:30	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/17/22 20:30	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/17/22 20:30	1
Dichlorodifluoromethane	<0.360	*- *1	1.00	0.360	ug/L			11/17/22 20:30	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/17/22 20:30	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/17/22 20:30	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/17/22 20:30	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/17/22 20:30	1

Client Sample ID: MW-11
Lab Sample ID: 680-225317-1
Date Collected: 11/09/22 09:40
Matrix: Water
Date Received: 11/11/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/17/22 20:30	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/17/22 20:30	1
Naphthalene	<2.40		5.00	2.40	ug/L			11/17/22 20:30	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/17/22 20:30	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/17/22 20:30	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/17/22 20:30	1
Styrene	<0.270		1.00	0.270	ug/L			11/17/22 20:30	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 20:30	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/17/22 20:30	1
Toluene	<0.250		1.00	0.250	ug/L			11/17/22 20:30	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/17/22 20:30	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/17/22 20:30	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/17/22 20:30	1
Trichlorofluoromethane	<0.330	*- *1	1.00	0.330	ug/L			11/17/22 20:30	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/17/22 20:30	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/17/22 20:30	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/17/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*		*11/17/22 20:30*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*11/17/22 20:30*	*1*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*11/17/22 20:30*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/17/22 20:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.34		9.44	4.34	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,2,4,5-Tetrachlorobenzene	<4.25		9.44	4.25	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,2,4-Trichlorobenzene	<3.21		9.44	3.21	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,2-Dichlorobenzene	<2.36		9.44	2.36	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,2-Diphenylhydrazine	<3.49		9.44	3.49	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,3-Dichlorobenzene	<2.74		9.44	2.74	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,3-Dinitrobenzene	<3.68		9.44	3.68	ug/L		11/14/22 14:51	11/18/22 00:47	1
1,4-Dichlorobenzene	<3.12		9.44	3.12	ug/L		11/14/22 14:51	11/18/22 00:47	1
1-Methylnaphthalene	<4.44		9.44	4.44	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,2'-oxybis[1-chloropropane]	<2.93		9.44	2.93	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,3,4,6-Tetrachlorophenol	<4.06		9.44	4.06	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,4,5-Trichlorophenol	<3.12		9.44	3.12	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,4,6-Trichlorophenol	<2.08		9.44	2.08	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,4-Dichlorophenol	<3.49		9.44	3.49	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,4-Dimethylphenol	<2.83		9.44	2.83	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,4-Dinitrophenol	<15.1		47.2	15.1	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,4-Dinitrotoluene	<2.17		9.44	2.17	ug/L		11/14/22 14:51	11/18/22 00:47	1
2,6-Dinitrotoluene	<2.64		9.44	2.64	ug/L		11/14/22 14:51	11/18/22 00:47	1
2-Chloronaphthalene	<4.53		9.44	4.53	ug/L		11/14/22 14:51	11/18/22 00:47	1
2-Chlorophenol	<3.02		9.44	3.02	ug/L		11/14/22 14:51	11/18/22 00:47	1
2-Methylnaphthalene	<4.34		9.44	4.34	ug/L		11/14/22 14:51	11/18/22 00:47	1
2-Methylphenol	<1.70		9.44	1.70	ug/L		11/14/22 14:51	11/18/22 00:47	1
2-Nitroaniline	<2.74		47.2	2.74	ug/L		11/14/22 14:51	11/18/22 00:47	1
2-Nitrophenol	<3.68		9.44	3.68	ug/L		11/14/22 14:51	11/18/22 00:47	1

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225317-1

Client Sample ID: MW-11
Date Collected: 11/09/22 09:40
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.32		9.44	1.32	ug/L		11/14/22 14:51	11/18/22 00:47	1
3,3'-Dichlorobenzidine	<9.44	*+	56.7	9.44	ug/L		11/14/22 14:51	11/18/22 00:47	1
3-Nitroaniline	<2.83		47.2	2.83	ug/L		11/14/22 14:51	11/18/22 00:47	1
4,6-Dinitro-2-methylphenol	<5.01		47.2	5.01	ug/L		11/14/22 14:51	11/18/22 00:47	1
4-Bromophenyl phenyl ether	<4.44		9.44	4.44	ug/L		11/14/22 14:51	11/18/22 00:47	1
4-Chloro-3-methylphenol	<2.36		9.44	2.36	ug/L		11/14/22 14:51	11/18/22 00:47	1
4-Chloroaniline	<0.944		18.9	0.944	ug/L		11/14/22 14:51	11/18/22 00:47	1
4-Chlorophenyl phenyl ether	<5.01		9.44	5.01	ug/L		11/14/22 14:51	11/18/22 00:47	1
4-Nitroaniline	<2.83		47.2	2.83	ug/L		11/14/22 14:51	11/18/22 00:47	1
4-Nitrophenol	<7.65		47.2	7.65	ug/L		11/14/22 14:51	11/18/22 00:47	1
Acenaphthene	<4.16		9.44	4.16	ug/L		11/14/22 14:51	11/18/22 00:47	1
Acenaphthylene	<3.40		9.44	3.40	ug/L		11/14/22 14:51	11/18/22 00:47	1
Acetophenone	<2.08		9.44	2.08	ug/L		11/14/22 14:51	11/18/22 00:47	1
Anthracene	<3.40		9.44	3.40	ug/L		11/14/22 14:51	11/18/22 00:47	1
Atrazine	<2.08		9.44	2.08	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzaldehyde	<4.53		9.44	4.53	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzo[a]anthracene	<3.97		9.44	3.97	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzo[a]pyrene	<2.64		9.44	2.64	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzo[b]fluoranthene	<2.93		9.44	2.93	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzo[g,h,i]perylene	<2.83		9.44	2.83	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzo[k]fluoranthene	<2.74		9.44	2.74	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzoic acid	<12.3		47.2	12.3	ug/L		11/14/22 14:51	11/18/22 00:47	1
Benzyl alcohol	<2.46		9.44	2.46	ug/L		11/14/22 14:51	11/18/22 00:47	1
Bis(2-chloroethoxy)methane	<1.70		9.44	1.70	ug/L		11/14/22 14:51	11/18/22 00:47	1
Bis(2-chloroethyl)ether	<3.40		9.44	3.40	ug/L		11/14/22 14:51	11/18/22 00:47	1
Bis(2-ethylhexyl) phthalate	<2.83		9.44	2.83	ug/L		11/14/22 14:51	11/18/22 00:47	1
Butyl benzyl phthalate	<2.64		9.44	2.64	ug/L		11/14/22 14:51	11/18/22 00:47	1
Carbazole	<1.70		9.44	1.70	ug/L		11/14/22 14:51	11/18/22 00:47	1
Chrysene	<3.59		9.44	3.59	ug/L		11/14/22 14:51	11/18/22 00:47	1
Dibenz(a,h)anthracene	<2.83		9.44	2.83	ug/L		11/14/22 14:51	11/18/22 00:47	1
Dibenzofuran	<1.79		9.44	1.79	ug/L		11/14/22 14:51	11/18/22 00:47	1
Diethyl phthalate	<2.08		9.44	2.08	ug/L		11/14/22 14:51	11/18/22 00:47	1
Dimethyl phthalate	<1.98		9.44	1.98	ug/L		11/14/22 14:51	11/18/22 00:47	1
Di-n-butyl phthalate	<2.17		9.44	2.17	ug/L		11/14/22 14:51	11/18/22 00:47	1
Di-n-octyl phthalate	<2.64		9.44	2.64	ug/L		11/14/22 14:51	11/18/22 00:47	1
Fluoranthene	<1.51		9.44	1.51	ug/L		11/14/22 14:51	11/18/22 00:47	1
Fluorene	<3.21		9.44	3.21	ug/L		11/14/22 14:51	11/18/22 00:47	1
Hexachlorobenzene	<1.51		9.44	1.51	ug/L		11/14/22 14:51	11/18/22 00:47	1
Hexachlorobutadiene	<3.78		9.44	3.78	ug/L		11/14/22 14:51	11/18/22 00:47	1
Hexachlorocyclopentadiene	<3.31		9.44	3.31	ug/L		11/14/22 14:51	11/18/22 00:47	1
Hexachloroethane	<3.40		9.44	3.40	ug/L		11/14/22 14:51	11/18/22 00:47	1
Indeno[1,2,3-cd]pyrene	<4.06		9.44	4.06	ug/L		11/14/22 14:51	11/18/22 00:47	1
Isophorone	<1.89		9.44	1.89	ug/L		11/14/22 14:51	11/18/22 00:47	1
Naphthalene	<3.31		9.44	3.31	ug/L		11/14/22 14:51	11/18/22 00:47	1
Nitrobenzene	<3.31		9.44	3.31	ug/L		11/14/22 14:51	11/18/22 00:47	1
N-Nitrosodimethylamine	<1.98		9.44	1.98	ug/L		11/14/22 14:51	11/18/22 00:47	1
N-Nitrosodi-n-propylamine	<2.27		9.44	2.27	ug/L		11/14/22 14:51	11/18/22 00:47	1
N-Nitrosodiphenylamine	<2.74		9.44	2.74	ug/L		11/14/22 14:51	11/18/22 00:47	1
Pentachlorophenol	<9.35		47.2	9.35	ug/L		11/14/22 14:51	11/18/22 00:47	1

Client Sample ID: MW-11

Date Collected: 11/09/22 09:40
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<4.06		9.44	4.06	ug/L		11/14/22 14:51	11/18/22 00:47	1
Phenol	<1.42		9.44	1.42	ug/L		11/14/22 14:51	11/18/22 00:47	1
Pyrene	<3.49		9.44	3.49	ug/L		11/14/22 14:51	11/18/22 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*38*		*30 - 130*	*11/14/22 14:51*	*11/18/22 00:47*	*1*
2-Fluorobiphenyl	*29*		*25 - 130*	*11/14/22 14:51*	*11/18/22 00:47*	*1*
2-Fluorophenol (Surr)	*16*		*10 - 130*	*11/14/22 14:51*	*11/18/22 00:47*	*1*
Nitrobenzene-d5 (Surr)	*28*	*S1-*	*30 - 130*	*11/14/22 14:51*	*11/18/22 00:47*	*1*
Phenol-d5 (Surr)	*12*		*10 - 130*	*11/14/22 14:51*	*11/18/22 00:47*	*1*
Terphenyl-d14 (Surr)	*53*		*35 - 131*	*11/14/22 14:51*	*11/18/22 00:47*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		11/14/22 05:40	11/14/22 17:14	1
Barium	**92.3**		10.0	4.40	ug/L		11/14/22 05:40	11/14/22 17:14	1
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 05:40	11/14/22 17:14	1
Chromium	<1.10		10.0	1.10	ug/L		11/14/22 05:40	11/14/22 17:14	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 05:40	11/14/22 17:14	1
Lead	<6.60		10.0	6.60	ug/L		11/14/22 05:40	11/14/22 17:14	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 05:40	11/14/22 17:14	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 22:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/22/22 17:43	11/28/22 13:55	1

Client Sample ID: MW-12

Date Collected: 11/09/22 10:55
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/17/22 22:13	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/17/22 22:13	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/17/22 22:13	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/17/22 22:13	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/17/22 22:13	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/17/22 22:13	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/17/22 22:13	1
1,2,3-Trichlorobenzene	<0.810	*+	5.00	0.810	ug/L			11/17/22 22:13	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/17/22 22:13	1
1,2,4-Trichlorobenzene	<0.530	*+	5.00	0.530	ug/L			11/17/22 22:13	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 22:13	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/17/22 22:13	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 22:13	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/17/22 22:13	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/17/22 22:13	1

Client Sample ID: MW-12
Lab Sample ID: 680-225317-2
Date Collected: 11/09/22 10:55
Matrix: Water
Date Received: 11/11/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/17/22 22:13	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/17/22 22:13	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 22:13	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/17/22 22:13	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 22:13	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/17/22 22:13	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/17/22 22:13	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/17/22 22:13	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/17/22 22:13	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/17/22 22:13	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/17/22 22:13	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/17/22 22:13	1
Acetone	<3.70		10.0	3.70	ug/L			11/17/22 22:13	1
Benzene	<0.270		1.00	0.270	ug/L			11/17/22 22:13	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/17/22 22:13	1
Bromoform	<0.590		1.00	0.590	ug/L			11/17/22 22:13	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/17/22 22:13	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/17/22 22:13	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/17/22 22:13	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/17/22 22:13	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/17/22 22:13	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/17/22 22:13	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/17/22 22:13	1
Chloroform	<0.270		1.00	0.270	ug/L			11/17/22 22:13	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/17/22 22:13	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/17/22 22:13	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/17/22 22:13	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/17/22 22:13	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/17/22 22:13	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/17/22 22:13	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/17/22 22:13	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/17/22 22:13	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/17/22 22:13	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/17/22 22:13	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/17/22 22:13	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/17/22 22:13	1
Naphthalene	<2.40	*+	5.00	2.40	ug/L			11/17/22 22:13	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/17/22 22:13	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/17/22 22:13	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/17/22 22:13	1
Styrene	<0.270		1.00	0.270	ug/L			11/17/22 22:13	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 22:13	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/17/22 22:13	1
Toluene	<0.250		1.00	0.250	ug/L			11/17/22 22:13	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/17/22 22:13	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/17/22 22:13	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/17/22 22:13	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			11/17/22 22:13	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/17/22 22:13	1

Client Sample ID: MW-12
Date Collected: 11/09/22 10:55
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/17/22 22:13	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/17/22 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/17/22 22:13*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/17/22 22:13*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/17/22 22:13*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/17/22 22:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.64		10.1	4.64	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,2,4,5-Tetrachlorobenzene	<4.54		10.1	4.54	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,2,4-Trichlorobenzene	<3.43		10.1	3.43	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,2-Dichlorobenzene	<2.52		10.1	2.52	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,2-Diphenylhydrazine	<3.74		10.1	3.74	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,3-Dichlorobenzene	<2.93		10.1	2.93	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,3-Dinitrobenzene	<3.94		10.1	3.94	ug/L		11/14/22 14:51	11/18/22 01:11	1
1,4-Dichlorobenzene	<3.33		10.1	3.33	ug/L		11/14/22 14:51	11/18/22 01:11	1
1-Methylnaphthalene	<4.74		10.1	4.74	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,2'-oxybis[1-chloropropane]	<3.13		10.1	3.13	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,3,4,6-Tetrachlorophenol	<4.34		10.1	4.34	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,4,5-Trichlorophenol	<3.33		10.1	3.33	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,4,6-Trichlorophenol	<2.22		10.1	2.22	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,4-Dichlorophenol	<3.74		10.1	3.74	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,4-Dimethylphenol	<3.03		10.1	3.03	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,4-Dinitrophenol	<16.2		50.5	16.2	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,4-Dinitrotoluene	<2.32		10.1	2.32	ug/L		11/14/22 14:51	11/18/22 01:11	1
2,6-Dinitrotoluene	<2.83		10.1	2.83	ug/L		11/14/22 14:51	11/18/22 01:11	1
2-Chloronaphthalene	<4.85		10.1	4.85	ug/L		11/14/22 14:51	11/18/22 01:11	1
2-Chlorophenol	<3.23		10.1	3.23	ug/L		11/14/22 14:51	11/18/22 01:11	1
2-Methylnaphthalene	<4.64		10.1	4.64	ug/L		11/14/22 14:51	11/18/22 01:11	1
2-Methylphenol	<1.82		10.1	1.82	ug/L		11/14/22 14:51	11/18/22 01:11	1
2-Nitroaniline	<2.93		50.5	2.93	ug/L		11/14/22 14:51	11/18/22 01:11	1
2-Nitrophenol	<3.94		10.1	3.94	ug/L		11/14/22 14:51	11/18/22 01:11	1
3 & 4 Methylphenol	<1.41		10.1	1.41	ug/L		11/14/22 14:51	11/18/22 01:11	1
3,3'-Dichlorobenzidine	<10.1	*+	60.6	10.1	ug/L		11/14/22 14:51	11/18/22 01:11	1
3-Nitroaniline	<3.03		50.5	3.03	ug/L		11/14/22 14:51	11/18/22 01:11	1
4,6-Dinitro-2-methylphenol	<5.35		50.5	5.35	ug/L		11/14/22 14:51	11/18/22 01:11	1
4-Bromophenyl phenyl ether	<4.74		10.1	4.74	ug/L		11/14/22 14:51	11/18/22 01:11	1
4-Chloro-3-methylphenol	<2.52		10.1	2.52	ug/L		11/14/22 14:51	11/18/22 01:11	1
4-Chloroaniline	<1.01		20.2	1.01	ug/L		11/14/22 14:51	11/18/22 01:11	1
4-Chlorophenyl phenyl ether	<5.35		10.1	5.35	ug/L		11/14/22 14:51	11/18/22 01:11	1
4-Nitroaniline	<3.03		50.5	3.03	ug/L		11/14/22 14:51	11/18/22 01:11	1
4-Nitrophenol	<8.18		50.5	8.18	ug/L		11/14/22 14:51	11/18/22 01:11	1
Acenaphthene	<4.44		10.1	4.44	ug/L		11/14/22 14:51	11/18/22 01:11	1
Acenaphthylene	<3.63		10.1	3.63	ug/L		11/14/22 14:51	11/18/22 01:11	1
Acetophenone	<2.22		10.1	2.22	ug/L		11/14/22 14:51	11/18/22 01:11	1
Anthracene	<3.63		10.1	3.63	ug/L		11/14/22 14:51	11/18/22 01:11	1
Atrazine	<2.22		10.1	2.22	ug/L		11/14/22 14:51	11/18/22 01:11	1

Client Sample ID: MW-12
Date Collected: 11/09/22 10:55
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<4.85		10.1	4.85	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzo[a]anthracene	<4.24		10.1	4.24	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzo[a]pyrene	<2.83		10.1	2.83	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzo[b]fluoranthene	<3.13		10.1	3.13	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzo[g,h,i]perylene	<3.03		10.1	3.03	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzo[k]fluoranthene	<2.93		10.1	2.93	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzoic acid	<13.1		50.5	13.1	ug/L		11/14/22 14:51	11/18/22 01:11	1
Benzyl alcohol	**3.25**	**J**	10.1	2.62	ug/L		11/14/22 14:51	11/18/22 01:11	1
Bis(2-chloroethoxy)methane	<1.82		10.1	1.82	ug/L		11/14/22 14:51	11/18/22 01:11	1
Bis(2-chloroethyl)ether	<3.63		10.1	3.63	ug/L		11/14/22 14:51	11/18/22 01:11	1
Bis(2-ethylhexyl) phthalate	<3.03		10.1	3.03	ug/L		11/14/22 14:51	11/18/22 01:11	1
Butyl benzyl phthalate	<2.83		10.1	2.83	ug/L		11/14/22 14:51	11/18/22 01:11	1
Carbazole	<1.82		10.1	1.82	ug/L		11/14/22 14:51	11/18/22 01:11	1
Chrysene	<3.84		10.1	3.84	ug/L		11/14/22 14:51	11/18/22 01:11	1
Dibenz(a,h)anthracene	<3.03		10.1	3.03	ug/L		11/14/22 14:51	11/18/22 01:11	1
Dibenzofuran	<1.92		10.1	1.92	ug/L		11/14/22 14:51	11/18/22 01:11	1
Diethyl phthalate	<2.22		10.1	2.22	ug/L		11/14/22 14:51	11/18/22 01:11	1
Dimethyl phthalate	<2.12		10.1	2.12	ug/L		11/14/22 14:51	11/18/22 01:11	1
Di-n-butyl phthalate	<2.32		10.1	2.32	ug/L		11/14/22 14:51	11/18/22 01:11	1
Di-n-octyl phthalate	<2.83		10.1	2.83	ug/L		11/14/22 14:51	11/18/22 01:11	1
Fluoranthene	<1.62		10.1	1.62	ug/L		11/14/22 14:51	11/18/22 01:11	1
Fluorene	<3.43		10.1	3.43	ug/L		11/14/22 14:51	11/18/22 01:11	1
Hexachlorobenzene	<1.62		10.1	1.62	ug/L		11/14/22 14:51	11/18/22 01:11	1
Hexachlorobutadiene	<4.04		10.1	4.04	ug/L		11/14/22 14:51	11/18/22 01:11	1
Hexachlorocyclopentadiene	<3.53		10.1	3.53	ug/L		11/14/22 14:51	11/18/22 01:11	1
Hexachloroethane	<3.63		10.1	3.63	ug/L		11/14/22 14:51	11/18/22 01:11	1
Indeno[1,2,3-cd]pyrene	<4.34		10.1	4.34	ug/L		11/14/22 14:51	11/18/22 01:11	1
Isophorone	<2.02		10.1	2.02	ug/L		11/14/22 14:51	11/18/22 01:11	1
Naphthalene	**5.75**	**J**	10.1	3.53	ug/L		11/14/22 14:51	11/18/22 01:11	1
Nitrobenzene	<3.53		10.1	3.53	ug/L		11/14/22 14:51	11/18/22 01:11	1
N-Nitrosodimethylamine	<2.12		10.1	2.12	ug/L		11/14/22 14:51	11/18/22 01:11	1
N-Nitrosodi-n-propylamine	<2.42		10.1	2.42	ug/L		11/14/22 14:51	11/18/22 01:11	1
N-Nitrosodiphenylamine	<2.93		10.1	2.93	ug/L		11/14/22 14:51	11/18/22 01:11	1
Pentachlorophenol	<9.99		50.5	9.99	ug/L		11/14/22 14:51	11/18/22 01:11	1
Phenanthrene	<4.34		10.1	4.34	ug/L		11/14/22 14:51	11/18/22 01:11	1
Phenol	<1.51		10.1	1.51	ug/L		11/14/22 14:51	11/18/22 01:11	1
Pyrene	<3.74		10.1	3.74	ug/L		11/14/22 14:51	11/18/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*30 - 130*	*11/14/22 14:51*	*11/18/22 01:11*	*1*
2-Fluorobiphenyl	*64*		*25 - 130*	*11/14/22 14:51*	*11/18/22 01:11*	*1*
2-Fluorophenol (Surr)	*33*		*10 - 130*	*11/14/22 14:51*	*11/18/22 01:11*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*11/14/22 14:51*	*11/18/22 01:11*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*11/14/22 14:51*	*11/18/22 01:11*	*1*
Terphenyl-d14 (Surr)	*92*		*35 - 131*	*11/14/22 14:51*	*11/18/22 01:11*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		11/14/22 05:40	11/14/22 17:11	1
Barium	**145**		10.0	4.40	ug/L		11/14/22 05:40	11/14/22 17:11	1

Client Sample ID: MW-12

Lab Sample ID: 680-225317-2

Date Collected: 11/09/22 10:55

Matrix: Water

Date Received: 11/11/22 17:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 05:40	11/14/22 17:11	1
Chromium	**1.22**	**J**	10.0	1.10	ug/L		11/14/22 05:40	11/14/22 17:11	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 05:40	11/14/22 17:11	1
Lead	<6.60		10.0	6.60	ug/L		11/14/22 05:40	11/14/22 17:11	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 05:40	11/14/22 17:11	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 22:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/22/22 17:43	11/28/22 14:05	1

Client Sample ID: MW-13

Lab Sample ID: 680-225317-3

Date Collected: 11/09/22 12:31

Matrix: Water

Date Received: 11/11/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/17/22 21:08	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/17/22 21:08	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/17/22 21:08	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/17/22 21:08	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/17/22 21:08	1
1,1-Dichloroethene	<0.330	*1	1.00	0.330	ug/L			11/17/22 21:08	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/17/22 21:08	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			11/17/22 21:08	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/17/22 21:08	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			11/17/22 21:08	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 21:08	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/17/22 21:08	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 21:08	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/17/22 21:08	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/17/22 21:08	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/17/22 21:08	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/17/22 21:08	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 21:08	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/17/22 21:08	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 21:08	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/17/22 21:08	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/17/22 21:08	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/17/22 21:08	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/17/22 21:08	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/17/22 21:08	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/17/22 21:08	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/17/22 21:08	1
Acetone	**7.10**	**J**	10.0	3.70	ug/L			11/17/22 21:08	1
Benzene	<0.270		1.00	0.270	ug/L			11/17/22 21:08	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/17/22 21:08	1

Client Sample ID: MW-13
Lab Sample ID: 680-225317-3
Date Collected: 11/09/22 12:31
Matrix: Water
Date Received: 11/11/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.590		1.00	0.590	ug/L			11/17/22 21:08	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/17/22 21:08	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/17/22 21:08	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/17/22 21:08	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/17/22 21:08	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/17/22 21:08	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/17/22 21:08	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/17/22 21:08	1
Chloroform	<0.270		1.00	0.270	ug/L			11/17/22 21:08	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/17/22 21:08	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/17/22 21:08	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/17/22 21:08	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/17/22 21:08	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/17/22 21:08	1
Dichlorodifluoromethane	<0.360	*- *1	1.00	0.360	ug/L			11/17/22 21:08	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/17/22 21:08	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/17/22 21:08	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/17/22 21:08	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/17/22 21:08	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/17/22 21:08	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/17/22 21:08	1
Naphthalene	<2.40		5.00	2.40	ug/L			11/17/22 21:08	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/17/22 21:08	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/17/22 21:08	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/17/22 21:08	1
Styrene	<0.270		1.00	0.270	ug/L			11/17/22 21:08	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 21:08	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/17/22 21:08	1
Toluene	<0.250		1.00	0.250	ug/L			11/17/22 21:08	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/17/22 21:08	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/17/22 21:08	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/17/22 21:08	1
Trichlorofluoromethane	<0.330	*- *1	1.00	0.330	ug/L			11/17/22 21:08	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/17/22 21:08	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/17/22 21:08	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/17/22 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/17/22 21:08*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*11/17/22 21:08*	*1*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*11/17/22 21:08*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/17/22 21:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.30		9.35	4.30	ug/L		11/14/22 14:51	11/18/22 01:36	1
1,2,4,5-Tetrachlorobenzene	<4.21		9.35	4.21	ug/L		11/14/22 14:51	11/18/22 01:36	1
1,2,4-Trichlorobenzene	<3.18		9.35	3.18	ug/L		11/14/22 14:51	11/18/22 01:36	1
1,2-Dichlorobenzene	<2.34		9.35	2.34	ug/L		11/14/22 14:51	11/18/22 01:36	1
1,2-Diphenylhydrazine	<3.46		9.35	3.46	ug/L		11/14/22 14:51	11/18/22 01:36	1

Client: Terracon Consultants, Inc.
Job ID: 680-225317-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: MW-13
Lab Sample ID: 680-225317-3
Date Collected: 11/09/22 12:31
Matrix: Water
Date Received: 11/11/22 17:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<2.71		9.35	2.71	ug/L		11/14/22 14:51	11/18/22 01:36	1
1,3-Dinitrobenzene	<3.65		9.35	3.65	ug/L		11/14/22 14:51	11/18/22 01:36	1
1,4-Dichlorobenzene	<3.09		9.35	3.09	ug/L		11/14/22 14:51	11/18/22 01:36	1
1-Methylnaphthalene	<4.40		9.35	4.40	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,2'-oxybis[1-chloropropane]	<2.90		9.35	2.90	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,3,4,6-Tetrachlorophenol	<4.02		9.35	4.02	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,4,5-Trichlorophenol	<3.09		9.35	3.09	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,4,6-Trichlorophenol	<2.06		9.35	2.06	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,4-Dichlorophenol	<3.46		9.35	3.46	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,4-Dimethylphenol	<2.81		9.35	2.81	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,4-Dinitrophenol	<15.0		46.8	15.0	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,4-Dinitrotoluene	<2.15		9.35	2.15	ug/L		11/14/22 14:51	11/18/22 01:36	1
2,6-Dinitrotoluene	<2.62		9.35	2.62	ug/L		11/14/22 14:51	11/18/22 01:36	1
2-Chloronaphthalene	<4.49		9.35	4.49	ug/L		11/14/22 14:51	11/18/22 01:36	1
2-Chlorophenol	<2.99		9.35	2.99	ug/L		11/14/22 14:51	11/18/22 01:36	1
2-Methylnaphthalene	<4.30		9.35	4.30	ug/L		11/14/22 14:51	11/18/22 01:36	1
2-Methylphenol	<1.68		9.35	1.68	ug/L		11/14/22 14:51	11/18/22 01:36	1
2-Nitroaniline	<2.71		46.8	2.71	ug/L		11/14/22 14:51	11/18/22 01:36	1
2-Nitrophenol	<3.65		9.35	3.65	ug/L		11/14/22 14:51	11/18/22 01:36	1
3 & 4 Methylphenol	<1.31		9.35	1.31	ug/L		11/14/22 14:51	11/18/22 01:36	1
3,3'-Dichlorobenzidine	<9.35	*+	56.1	9.35	ug/L		11/14/22 14:51	11/18/22 01:36	1
3-Nitroaniline	<2.81		46.8	2.81	ug/L		11/14/22 14:51	11/18/22 01:36	1
4,6-Dinitro-2-methylphenol	<4.96		46.8	4.96	ug/L		11/14/22 14:51	11/18/22 01:36	1
4-Bromophenyl phenyl ether	<4.40		9.35	4.40	ug/L		11/14/22 14:51	11/18/22 01:36	1
4-Chloro-3-methylphenol	<2.34		9.35	2.34	ug/L		11/14/22 14:51	11/18/22 01:36	1
4-Chloroaniline	<0.935		18.7	0.935	ug/L		11/14/22 14:51	11/18/22 01:36	1
4-Chlorophenyl phenyl ether	<4.96		9.35	4.96	ug/L		11/14/22 14:51	11/18/22 01:36	1
4-Nitroaniline	<2.81		46.8	2.81	ug/L		11/14/22 14:51	11/18/22 01:36	1
4-Nitrophenol	<7.58		46.8	7.58	ug/L		11/14/22 14:51	11/18/22 01:36	1
Acenaphthene	<4.12		9.35	4.12	ug/L		11/14/22 14:51	11/18/22 01:36	1
Acenaphthylene	<3.37		9.35	3.37	ug/L		11/14/22 14:51	11/18/22 01:36	1
Acetophenone	<2.06		9.35	2.06	ug/L		11/14/22 14:51	11/18/22 01:36	1
Anthracene	<3.37		9.35	3.37	ug/L		11/14/22 14:51	11/18/22 01:36	1
Atrazine	<2.06		9.35	2.06	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzaldehyde	<4.49		9.35	4.49	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzo[a]anthracene	<3.93		9.35	3.93	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzo[a]pyrene	<2.62		9.35	2.62	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzo[b]fluoranthene	<2.90		9.35	2.90	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzo[g,h,i]perylene	<2.81		9.35	2.81	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzo[k]fluoranthene	<2.71		9.35	2.71	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzoic acid	<12.2		46.8	12.2	ug/L		11/14/22 14:51	11/18/22 01:36	1
Benzyl alcohol	<2.43		9.35	2.43	ug/L		11/14/22 14:51	11/18/22 01:36	1
Bis(2-chloroethoxy)methane	<1.68		9.35	1.68	ug/L		11/14/22 14:51	11/18/22 01:36	1
Bis(2-chloroethyl)ether	<3.37		9.35	3.37	ug/L		11/14/22 14:51	11/18/22 01:36	1
Bis(2-ethylhexyl) phthalate	<2.81		9.35	2.81	ug/L		11/14/22 14:51	11/18/22 01:36	1
Butyl benzyl phthalate	<2.62		9.35	2.62	ug/L		11/14/22 14:51	11/18/22 01:36	1
Carbazole	<1.68		9.35	1.68	ug/L		11/14/22 14:51	11/18/22 01:36	1
Chrysene	<3.55		9.35	3.55	ug/L		11/14/22 14:51	11/18/22 01:36	1
Dibenz(a,h)anthracene	<2.81		9.35	2.81	ug/L		11/14/22 14:51	11/18/22 01:36	1

Client Sample ID: MW-13
Date Collected: 11/09/22 12:31
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<1.78		9.35	1.78	ug/L		11/14/22 14:51	11/18/22 01:36	1
Diethyl phthalate	<2.06		9.35	2.06	ug/L		11/14/22 14:51	11/18/22 01:36	1
Dimethyl phthalate	<1.96		9.35	1.96	ug/L		11/14/22 14:51	11/18/22 01:36	1
Di-n-butyl phthalate	<2.15		9.35	2.15	ug/L		11/14/22 14:51	11/18/22 01:36	1
Di-n-octyl phthalate	<2.62		9.35	2.62	ug/L		11/14/22 14:51	11/18/22 01:36	1
Fluoranthene	<1.50		9.35	1.50	ug/L		11/14/22 14:51	11/18/22 01:36	1
Fluorene	<3.18		9.35	3.18	ug/L		11/14/22 14:51	11/18/22 01:36	1
Hexachlorobenzene	<1.50		9.35	1.50	ug/L		11/14/22 14:51	11/18/22 01:36	1
Hexachlorobutadiene	<3.74		9.35	3.74	ug/L		11/14/22 14:51	11/18/22 01:36	1
Hexachlorocyclopentadiene	<3.27		9.35	3.27	ug/L		11/14/22 14:51	11/18/22 01:36	1
Hexachloroethane	<3.37		9.35	3.37	ug/L		11/14/22 14:51	11/18/22 01:36	1
Indeno[1,2,3-cd]pyrene	<4.02		9.35	4.02	ug/L		11/14/22 14:51	11/18/22 01:36	1
Isophorone	<1.87		9.35	1.87	ug/L		11/14/22 14:51	11/18/22 01:36	1
Naphthalene	<3.27		9.35	3.27	ug/L		11/14/22 14:51	11/18/22 01:36	1
Nitrobenzene	<3.27		9.35	3.27	ug/L		11/14/22 14:51	11/18/22 01:36	1
N-Nitrosodimethylamine	<1.96		9.35	1.96	ug/L		11/14/22 14:51	11/18/22 01:36	1
N-Nitrosodi-n-propylamine	<2.25		9.35	2.25	ug/L		11/14/22 14:51	11/18/22 01:36	1
N-Nitrosodiphenylamine	<2.71		9.35	2.71	ug/L		11/14/22 14:51	11/18/22 01:36	1
Pentachlorophenol	<9.26		46.8	9.26	ug/L		11/14/22 14:51	11/18/22 01:36	1
Phenanthrene	<4.02		9.35	4.02	ug/L		11/14/22 14:51	11/18/22 01:36	1
Phenol	<1.40		9.35	1.40	ug/L		11/14/22 14:51	11/18/22 01:36	1
Pyrene	<3.46		9.35	3.46	ug/L		11/14/22 14:51	11/18/22 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*30 - 130*	*11/14/22 14:51*	*11/18/22 01:36*	*1*
2-Fluorobiphenyl	*56*		*25 - 130*	*11/14/22 14:51*	*11/18/22 01:36*	*1*
2-Fluorophenol (Surr)	*24*		*10 - 130*	*11/14/22 14:51*	*11/18/22 01:36*	*1*
Nitrobenzene-d5 (Surr)	*51*		*30 - 130*	*11/14/22 14:51*	*11/18/22 01:36*	*1*
Phenol-d5 (Surr)	*21*		*10 - 130*	*11/14/22 14:51*	*11/18/22 01:36*	*1*
Terphenyl-d14 (Surr)	*91*		*35 - 131*	*11/14/22 14:51*	*11/18/22 01:36*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		11/14/22 05:40	11/14/22 17:08	1
Barium	**97.3**		10.0	4.40	ug/L		11/14/22 05:40	11/14/22 17:08	1
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 05:40	11/14/22 17:08	1
Chromium	**2.82**	**J**	10.0	1.10	ug/L		11/14/22 05:40	11/14/22 17:08	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 05:40	11/14/22 17:08	1
Lead	<6.60		10.0	6.60	ug/L		11/14/22 05:40	11/14/22 17:08	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 05:40	11/14/22 17:08	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 22:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/22/22 17:43	11/28/22 14:09	1

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225317-1

Client Sample ID: Trip Blank -2
Date Collected: 11/09/22 00:00
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/17/22 16:43	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/17/22 16:43	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/17/22 16:43	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/17/22 16:43	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/17/22 16:43	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/17/22 16:43	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/17/22 16:43	1
1,2,3-Trichlorobenzene	<0.810	*+	5.00	0.810	ug/L			11/17/22 16:43	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/17/22 16:43	1
1,2,4-Trichlorobenzene	<0.530	*+	5.00	0.530	ug/L			11/17/22 16:43	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 16:43	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/17/22 16:43	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:43	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/17/22 16:43	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/17/22 16:43	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/17/22 16:43	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/17/22 16:43	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:43	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/17/22 16:43	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:43	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/17/22 16:43	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/17/22 16:43	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/17/22 16:43	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/17/22 16:43	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/17/22 16:43	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/17/22 16:43	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/17/22 16:43	1
Acetone	**10.6**		10.0	3.70	ug/L			11/17/22 16:43	1
Benzene	<0.270		1.00	0.270	ug/L			11/17/22 16:43	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/17/22 16:43	1
Bromoform	<0.590		1.00	0.590	ug/L			11/17/22 16:43	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/17/22 16:43	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/17/22 16:43	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/17/22 16:43	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/17/22 16:43	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/17/22 16:43	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/17/22 16:43	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/17/22 16:43	1
Chloroform	<0.270		1.00	0.270	ug/L			11/17/22 16:43	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/17/22 16:43	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/17/22 16:43	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/17/22 16:43	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/17/22 16:43	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/17/22 16:43	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/17/22 16:43	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/17/22 16:43	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/17/22 16:43	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/17/22 16:43	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/17/22 16:43	1

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225317-1

Client Sample ID: Trip Blank -2
Date Collected: 11/09/22 00:00
Date Received: 11/11/22 17:00

Lab Sample ID: 680-225317-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/17/22 16:43	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/17/22 16:43	1
Naphthalene	<2.40	*+	5.00	2.40	ug/L			11/17/22 16:43	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/17/22 16:43	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/17/22 16:43	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/17/22 16:43	1
Styrene	<0.270		1.00	0.270	ug/L			11/17/22 16:43	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 16:43	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/17/22 16:43	1
Toluene	<0.250		1.00	0.250	ug/L			11/17/22 16:43	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/17/22 16:43	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/17/22 16:43	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/17/22 16:43	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			11/17/22 16:43	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/17/22 16:43	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/17/22 16:43	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/17/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*11/17/22 16:43*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*11/17/22 16:43*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/17/22 16:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/17/22 16:43*	*1*

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

Lab Sample ID: MB 680-751094/9
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/17/22 16:06	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/17/22 16:06	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/17/22 16:06	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/17/22 16:06	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/17/22 16:06	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/17/22 16:06	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/17/22 16:06	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			11/17/22 16:06	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/17/22 16:06	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			11/17/22 16:06	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 16:06	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/17/22 16:06	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:06	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/17/22 16:06	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/17/22 16:06	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/17/22 16:06	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/17/22 16:06	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:06	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/17/22 16:06	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:06	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/17/22 16:06	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/17/22 16:06	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/17/22 16:06	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/17/22 16:06	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/17/22 16:06	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/17/22 16:06	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/17/22 16:06	1
Acetone	<3.70		10.0	3.70	ug/L			11/17/22 16:06	1
Benzene	<0.270		1.00	0.270	ug/L			11/17/22 16:06	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/17/22 16:06	1
Bromoform	<0.590		1.00	0.590	ug/L			11/17/22 16:06	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/17/22 16:06	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/17/22 16:06	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/17/22 16:06	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/17/22 16:06	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/17/22 16:06	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/17/22 16:06	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/17/22 16:06	1
Chloroform	<0.270		1.00	0.270	ug/L			11/17/22 16:06	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/17/22 16:06	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/17/22 16:06	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/17/22 16:06	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/17/22 16:06	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/17/22 16:06	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/17/22 16:06	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/17/22 16:06	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/17/22 16:06	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/17/22 16:06	1

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

Lab Sample ID: MB 680-751094/9
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/17/22 16:06	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/17/22 16:06	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/17/22 16:06	1
Naphthalene	<2.40		5.00	2.40	ug/L			11/17/22 16:06	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/17/22 16:06	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/17/22 16:06	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/17/22 16:06	1
Styrene	<0.270		1.00	0.270	ug/L			11/17/22 16:06	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 16:06	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/17/22 16:06	1
Toluene	<0.250		1.00	0.250	ug/L			11/17/22 16:06	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/17/22 16:06	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/17/22 16:06	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/17/22 16:06	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			11/17/22 16:06	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/17/22 16:06	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/17/22 16:06	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/17/22 16:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*11/17/22 16:06*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*11/17/22 16:06*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*11/17/22 16:06*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/17/22 16:06*	*1*

Lab Sample ID: LCS 680-751094/5
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.60		ug/L		107	70 - 130
1,1,1-Trichloroethane	50.0	43.69		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.76		ug/L		104	70 - 130
1,1,2-Trichloroethane	50.0	52.09		ug/L		104	70 - 130
1,1-Dichloroethane	50.0	47.16		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	40.37		ug/L		81	70 - 130
1,1-Dichloropropene	50.0	39.87		ug/L		80	70 - 130
1,2,3-Trichlorobenzene	50.0	52.10		ug/L		104	61 - 141
1,2,3-Trichloropropane	50.0	47.00		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	50.0	52.03		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	50.0	46.01		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.91		ug/L		110	70 - 130
1,2-Dichlorobenzene	50.0	49.81		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	47.81		ug/L		96	70 - 130
1,2-Dichloroethene, Total	100	93.98		ug/L		94	70 - 130
1,2-Dichloropropane	50.0	49.41		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	50.0	45.46		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	48.11		ug/L		96	70 - 130

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

Lab Sample ID: LCS 680-751094/5
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	50.0	50.02		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	49.80		ug/L		100	70 - 130
2,2-Dichloropropane	50.0	42.14		ug/L		84	70 - 130
2-Butanone (MEK)	250	241.0		ug/L		96	69 - 120
2-Chlorotoluene	50.0	49.36		ug/L		99	70 - 130
2-Hexanone	250	241.4		ug/L		97	70 - 130
4-Chlorotoluene	50.0	50.22		ug/L		100	70 - 130
4-Isopropyltoluene	50.0	47.60		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	250	241.7		ug/L		97	68 - 120
Acetone	250	268.2		ug/L		107	67 - 120
Benzene	50.0	45.37		ug/L		91	70 - 130
Bromobenzene	50.0	53.37		ug/L		107	70 - 130
Bromoform	50.0	54.26		ug/L		109	69 - 129
Bromomethane	50.0	45.30		ug/L		91	28 - 192
Carbon disulfide	50.0	40.03		ug/L		80	70 - 130
Carbon tetrachloride	50.0	41.23		ug/L		82	70 - 130
Chlorobenzene	50.0	52.71		ug/L		105	70 - 130
Chlorobromomethane	50.0	52.53		ug/L		105	70 - 130
Chlorodibromomethane	50.0	54.13		ug/L		108	70 - 130
Chloroethane	50.0	54.71		ug/L		109	31 - 213
Chloroform	50.0	48.13		ug/L		96	70 - 130
Chloromethane	50.0	45.38		ug/L		91	59 - 127
cis-1,2-Dichloroethene	50.0	49.36		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	51.28		ug/L		103	70 - 130
Dibromomethane	50.0	53.84		ug/L		108	70 - 130
Dichlorobromomethane	50.0	50.86		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	28.71	*-	ug/L		57	70 - 130
Ethylbenzene	50.0	46.27		ug/L		93	70 - 130
Ethylene Dibromide	50.0	54.85		ug/L		110	70 - 130
Hexachlorobutadiene	50.0	42.69		ug/L		85	70 - 130
Isopropylbenzene	50.0	51.27		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	50.06		ug/L		100	70 - 130
Methylene Chloride	50.0	49.48		ug/L		99	70 - 130
m-Xylene & p-Xylene	50.0	51.33		ug/L		103	70 - 130
Naphthalene	50.0	54.19		ug/L		108	57 - 149
n-Butylbenzene	50.0	48.96		ug/L		98	70 - 130
N-Propylbenzene	50.0	49.10		ug/L		98	70 - 130
o-Xylene	50.0	51.89		ug/L		104	70 - 130
sec-Butylbenzene	50.0	44.31		ug/L		89	70 - 130
Styrene	50.0	50.19		ug/L		100	70 - 130
tert-Butylbenzene	50.0	49.16		ug/L		98	70 - 130
Tetrachloroethene	50.0	47.48		ug/L		95	70 - 130
Toluene	50.0	48.36		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	44.62		ug/L		89	70 - 130
trans-1,3-Dichloropropene	50.0	49.90		ug/L		100	70 - 130
Trichloroethene	50.0	51.44		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	30.06	*-	ug/L		60	63 - 142
Vinyl acetate	100	98.17		ug/L		98	67 - 135
Vinyl chloride	50.0	42.27		ug/L		85	66 - 129

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

Lab Sample ID: LCS 680-751094/5
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	103.2		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-751094/6
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	54.04		ug/L		108	70 - 130	1	30
1,1,1-Trichloroethane			50.0	49.67		ug/L		99	70 - 130	13	30
1,1,2,2-Tetrachloroethane			50.0	49.85		ug/L		100	70 - 130	4	30
1,1,2-Trichloroethane			50.0	51.77		ug/L		104	70 - 130	1	30
1,1-Dichloroethane			50.0	49.82		ug/L		100	70 - 130	6	30
1,1-Dichloroethene			50.0	52.92	*1	ug/L		106	70 - 130	27	20
1,1-Dichloropropene			50.0	48.47		ug/L		97	70 - 130	19	20
1,2,3-Trichlorobenzene			50.0	50.70		ug/L		101	61 - 141	3	30
1,2,3-Trichloropropane			50.0	44.43		ug/L		89	70 - 130	6	30
1,2,4-Trichlorobenzene			50.0	51.96		ug/L		104	70 - 130	0	30
1,2,4-Trimethylbenzene			50.0	46.96		ug/L		94	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	51.50		ug/L		103	70 - 130	6	30
1,2-Dichlorobenzene			50.0	49.74		ug/L		99	70 - 130	0	30
1,2-Dichloroethane			50.0	48.82		ug/L		98	70 - 130	2	50
1,2-Dichloroethene, Total			100	100.8		ug/L		101	70 - 130	7	20
1,2-Dichloropropane			50.0	49.47		ug/L		99	70 - 130	0	20
1,3,5-Trimethylbenzene			50.0	46.43		ug/L		93	70 - 130	2	30
1,3-Dichlorobenzene			50.0	49.14		ug/L		98	70 - 130	2	30
1,3-Dichloropropane			50.0	49.45		ug/L		99	70 - 130	1	20
1,4-Dichlorobenzene			50.0	49.62		ug/L		99	70 - 130	0	30
2,2-Dichloropropane			50.0	46.20		ug/L		92	70 - 130	9	20
2-Butanone (MEK)			250	222.2		ug/L		89	69 - 120	8	30
2-Chlorotoluene			50.0	49.89		ug/L		100	70 - 130	1	30
2-Hexanone			250	221.9		ug/L		89	70 - 130	8	20
4-Chlorotoluene			50.0	49.98		ug/L		100	70 - 130	0	30
4-Isopropyltoluene			50.0	49.46		ug/L		99	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)			250	224.5		ug/L		90	68 - 120	7	30
Acetone			250	242.2		ug/L		97	67 - 120	10	30
Benzene			50.0	47.71		ug/L		95	70 - 130	5	30
Bromobenzene			50.0	52.57		ug/L		105	70 - 130	2	30
Bromoform			50.0	52.13		ug/L		104	69 - 129	4	30
Bromomethane			50.0	48.34		ug/L		97	28 - 192	6	30
Carbon disulfide			50.0	51.25		ug/L		102	70 - 130	25	30
Carbon tetrachloride			50.0	50.78		ug/L		102	70 - 130	21	30
Chlorobenzene			50.0	52.77		ug/L		106	70 - 130	0	30

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

Lab Sample ID: LCSD 680-751094/6
Matrix: Water
Analysis Batch: 751094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobromomethane	50.0	53.24		ug/L		106	70 - 130	1	30
Chlorodibromomethane	50.0	54.57		ug/L		109	70 - 130	1	30
Chloroethane	50.0	59.21		ug/L		118	31 - 213	8	30
Chloroform	50.0	49.57		ug/L		99	70 - 130	3	30
Chloromethane	50.0	46.73		ug/L		93	59 - 127	3	30
cis-1,2-Dichloroethene	50.0	50.69		ug/L		101	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	51.53		ug/L		103	70 - 130	0	20
Dibromomethane	50.0	52.48		ug/L		105	70 - 130	3	30
Dichlorobromomethane	50.0	51.63		ug/L		103	70 - 130	2	30
Dichlorodifluoromethane	50.0	55.39	*1	ug/L		111	70 - 130	63	40
Ethylbenzene	50.0	47.50		ug/L		95	70 - 130	3	20
Ethylene Dibromide	50.0	52.72		ug/L		105	70 - 130	4	30
Hexachlorobutadiene	50.0	46.32		ug/L		93	70 - 130	8	20
Isopropylbenzene	50.0	53.56		ug/L		107	70 - 130	4	30
Methyl tert-butyl ether	50.0	49.04		ug/L		98	70 - 130	2	30
Methylene Chloride	50.0	51.27		ug/L		103	70 - 130	4	30
m-Xylene & p-Xylene	50.0	53.12		ug/L		106	70 - 130	3	30
Naphthalene	50.0	52.47		ug/L		105	57 - 149	3	30
n-Butylbenzene	50.0	52.08		ug/L		104	70 - 130	6	30
N-Propylbenzene	50.0	50.08		ug/L		100	70 - 130	2	30
o-Xylene	50.0	51.36		ug/L		103	70 - 130	1	30
sec-Butylbenzene	50.0	47.18		ug/L		94	70 - 130	6	30
Styrene	50.0	50.63		ug/L		101	70 - 130	1	30
tert-Butylbenzene	50.0	52.34		ug/L		105	70 - 130	6	30
Tetrachloroethene	50.0	52.65		ug/L		105	70 - 130	10	30
Toluene	50.0	50.81		ug/L		102	70 - 130	5	30
trans-1,2-Dichloroethene	50.0	50.14		ug/L		100	70 - 130	12	30
trans-1,3-Dichloropropene	50.0	49.33		ug/L		99	70 - 130	1	30
Trichloroethene	50.0	54.99		ug/L		110	70 - 130	7	30
Trichlorofluoromethane	50.0	42.86	*1	ug/L		86	63 - 142	35	30
Vinyl acetate	100	98.91		ug/L		99	67 - 135	1	30
Vinyl chloride	50.0	48.80		ug/L		98	66 - 129	14	30
Xylenes, Total	100	104.5		ug/L		104	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-751111/9
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/17/22 16:20	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/17/22 16:20	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/17/22 16:20	1

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

Lab Sample ID: MB 680-751111/9
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/17/22 16:20	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/17/22 16:20	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/17/22 16:20	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/17/22 16:20	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			11/17/22 16:20	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/17/22 16:20	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			11/17/22 16:20	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 16:20	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/17/22 16:20	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:20	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/17/22 16:20	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/17/22 16:20	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/17/22 16:20	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/17/22 16:20	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:20	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/17/22 16:20	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/17/22 16:20	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/17/22 16:20	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/17/22 16:20	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/17/22 16:20	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/17/22 16:20	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/17/22 16:20	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/17/22 16:20	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/17/22 16:20	1
Acetone	<3.70		10.0	3.70	ug/L			11/17/22 16:20	1
Benzene	<0.270		1.00	0.270	ug/L			11/17/22 16:20	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/17/22 16:20	1
Bromoform	<0.590		1.00	0.590	ug/L			11/17/22 16:20	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/17/22 16:20	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/17/22 16:20	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/17/22 16:20	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/17/22 16:20	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/17/22 16:20	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/17/22 16:20	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/17/22 16:20	1
Chloroform	<0.270		1.00	0.270	ug/L			11/17/22 16:20	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/17/22 16:20	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/17/22 16:20	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/17/22 16:20	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/17/22 16:20	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/17/22 16:20	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/17/22 16:20	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/17/22 16:20	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/17/22 16:20	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/17/22 16:20	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/17/22 16:20	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/17/22 16:20	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/17/22 16:20	1
Naphthalene	<2.40		5.00	2.40	ug/L			11/17/22 16:20	1

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

Lab Sample ID: MB 680-751111/9
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/17/22 16:20	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/17/22 16:20	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/17/22 16:20	1
Styrene	<0.270		1.00	0.270	ug/L			11/17/22 16:20	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/17/22 16:20	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/17/22 16:20	1
Toluene	<0.250		1.00	0.250	ug/L			11/17/22 16:20	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/17/22 16:20	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/17/22 16:20	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/17/22 16:20	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			11/17/22 16:20	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/17/22 16:20	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/17/22 16:20	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/17/22 16:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/17/22 16:20*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*11/17/22 16:20*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/17/22 16:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/17/22 16:20*	*1*

Lab Sample ID: LCS 680-751111/5
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	57.17		ug/L		114	70 - 130
1,1,1-Trichloroethane	50.0	47.08		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.45		ug/L		85	70 - 130
1,1,2-Trichloroethane	50.0	49.28		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	45.22		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	35.51		ug/L		71	70 - 130
1,1-Dichloropropene	50.0	39.45		ug/L		79	70 - 130
1,2,3-Trichlorobenzene	50.0	82.94	*+	ug/L		166	61 - 141
1,2,3-Trichloropropane	50.0	46.33		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	50.0	72.91	*+	ug/L		146	70 - 130
1,2,4-Trimethylbenzene	50.0	49.76		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.49		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	51.10		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	53.09		ug/L		106	70 - 130
1,2-Dichloroethene, Total	100	89.81		ug/L		90	70 - 130
1,2-Dichloropropane	50.0	46.50		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	50.0	49.49		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.0	49.48		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	47.60		ug/L		95	70 - 130
1,4-Dichlorobenzene	50.0	49.07		ug/L		98	70 - 130
2,2-Dichloropropane	50.0	46.73		ug/L		93	70 - 130
2-Butanone (MEK)	250	206.4		ug/L		83	69 - 120

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

Lab Sample ID: LCS 680-751111/5
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	50.0	49.65		ug/L		99	70 - 130
2-Hexanone	250	184.0		ug/L		74	70 - 130
4-Chlorotoluene	50.0	47.90		ug/L		96	70 - 130
4-Isopropyltoluene	50.0	46.77		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	250	193.5		ug/L		77	68 - 120
Acetone	250	216.2		ug/L		86	67 - 120
Benzene	50.0	43.61		ug/L		87	70 - 130
Bromobenzene	50.0	51.46		ug/L		103	70 - 130
Bromoform	50.0	44.70		ug/L		89	69 - 129
Bromomethane	50.0	72.63		ug/L		145	28 - 192
Carbon disulfide	50.0	36.74		ug/L		73	70 - 130
Carbon tetrachloride	50.0	43.58		ug/L		87	70 - 130
Chlorobenzene	50.0	47.76		ug/L		96	70 - 130
Chlorobromomethane	50.0	50.66		ug/L		101	70 - 130
Chlorodibromomethane	50.0	50.81		ug/L		102	70 - 130
Chloroethane	50.0	76.93		ug/L		154	31 - 213
Chloroform	50.0	50.24		ug/L		100	70 - 130
Chloromethane	50.0	39.43		ug/L		79	59 - 127
cis-1,2-Dichloroethene	50.0	46.14		ug/L		92	70 - 130
cis-1,3-Dichloropropene	50.0	52.94		ug/L		106	70 - 130
Dibromomethane	50.0	48.54		ug/L		97	70 - 130
Dichlorobromomethane	50.0	56.61		ug/L		113	70 - 130
Dichlorodifluoromethane	50.0	43.49		ug/L		87	70 - 130
Ethylbenzene	50.0	49.40		ug/L		99	70 - 130
Ethylene Dibromide	50.0	49.69		ug/L		99	70 - 130
Hexachlorobutadiene	50.0	54.08		ug/L		108	70 - 130
Isopropylbenzene	50.0	49.61		ug/L		99	70 - 130
Methyl tert-butyl ether	50.0	48.84		ug/L		98	70 - 130
Methylene Chloride	50.0	44.92		ug/L		90	70 - 130
m-Xylene & p-Xylene	50.0	49.12		ug/L		98	70 - 130
Naphthalene	50.0	91.58	*+	ug/L		183	57 - 149
n-Butylbenzene	50.0	45.32		ug/L		91	70 - 130
N-Propylbenzene	50.0	46.86		ug/L		94	70 - 130
o-Xylene	50.0	51.12		ug/L		102	70 - 130
sec-Butylbenzene	50.0	43.92		ug/L		88	70 - 130
Styrene	50.0	50.52		ug/L		101	70 - 130
tert-Butylbenzene	50.0	47.70		ug/L		95	70 - 130
Tetrachloroethene	50.0	47.53		ug/L		95	70 - 130
Toluene	50.0	48.22		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	43.67		ug/L		87	70 - 130
trans-1,3-Dichloropropene	50.0	56.14		ug/L		112	70 - 130
Trichloroethene	50.0	47.00		ug/L		94	70 - 130
Trichlorofluoromethane	50.0	71.15		ug/L		142	63 - 142
Vinyl acetate	100	84.56		ug/L		85	67 - 135
Vinyl chloride	50.0	48.58		ug/L		97	66 - 129
Xylenes, Total	100	100.2		ug/L		100	70 - 130

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

Lab Sample ID: LCS 680-751111/5
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		60 - 124
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 680-751111/6
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	55.80		ug/L		112	70 - 130	2	30
1,1,1-Trichloroethane			50.0	47.55		ug/L		95	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	40.94		ug/L		82	70 - 130	4	30
1,1,2-Trichloroethane			50.0	48.53		ug/L		97	70 - 130	2	30
1,1-Dichloroethane			50.0	44.65		ug/L		89	70 - 130	1	30
1,1-Dichloroethene			50.0	34.92		ug/L		70	70 - 130	2	20
1,1-Dichloropropene			50.0	39.95		ug/L		80	70 - 130	1	20
1,2,3-Trichlorobenzene			50.0	87.25	*+	ug/L		175	61 - 141	5	30
1,2,3-Trichloropropane			50.0	47.64		ug/L		95	70 - 130	3	30
1,2,4-Trichlorobenzene			50.0	72.15	*+	ug/L		144	70 - 130	1	30
1,2,4-Trimethylbenzene			50.0	49.74		ug/L		99	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	51.56		ug/L		103	70 - 130	4	30
1,2-Dichlorobenzene			50.0	50.96		ug/L		102	70 - 130	0	30
1,2-Dichloroethane			50.0	52.67		ug/L		105	70 - 130	1	50
1,2-Dichloroethene, Total			100	88.77		ug/L		89	70 - 130	1	20
1,2-Dichloropropane			50.0	45.77		ug/L		92	70 - 130	2	20
1,3,5-Trimethylbenzene			50.0	49.86		ug/L		100	70 - 130	1	30
1,3-Dichlorobenzene			50.0	49.44		ug/L		99	70 - 130	0	30
1,3-Dichloropropane			50.0	47.49		ug/L		95	70 - 130	0	20
1,4-Dichlorobenzene			50.0	49.33		ug/L		99	70 - 130	1	30
2,2-Dichloropropane			50.0	46.42		ug/L		93	70 - 130	1	20
2-Butanone (MEK)			250	209.1		ug/L		84	69 - 120	1	30
2-Chlorotoluene			50.0	49.06		ug/L		98	70 - 130	1	30
2-Hexanone			250	184.1		ug/L		74	70 - 130	0	20
4-Chlorotoluene			50.0	46.97		ug/L		94	70 - 130	2	30
4-Isopropyltoluene			50.0	47.32		ug/L		95	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)			250	191.7		ug/L		77	68 - 120	1	30
Acetone			250	210.5		ug/L		84	67 - 120	3	30
Benzene			50.0	44.38		ug/L		89	70 - 130	2	30
Bromobenzene			50.0	49.85		ug/L		100	70 - 130	3	30
Bromoform			50.0	45.72		ug/L		91	69 - 129	2	30
Bromomethane			50.0	73.18		ug/L		146	28 - 192	1	30
Carbon disulfide			50.0	36.40		ug/L		73	70 - 130	1	30
Carbon tetrachloride			50.0	43.94		ug/L		88	70 - 130	1	30
Chlorobenzene			50.0	47.87		ug/L		96	70 - 130	0	30
Chlorobromomethane			50.0	50.27		ug/L		101	70 - 130	1	30
Chlorodibromomethane			50.0	50.31		ug/L		101	70 - 130	1	30
Chloroethane			50.0	78.22		ug/L		156	31 - 213	2	30

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

Lab Sample ID: LCSD 680-751111/6
Matrix: Water
Analysis Batch: 751111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform	50.0	50.32		ug/L		101	70 - 130	0	30
Chloromethane	50.0	39.80		ug/L		80	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	45.78		ug/L		92	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	51.72		ug/L		103	70 - 130	2	20
Dibromomethane	50.0	50.13		ug/L		100	70 - 130	3	30
Dichlorobromomethane	50.0	55.03		ug/L		110	70 - 130	3	30
Dichlorodifluoromethane	50.0	43.86		ug/L		88	70 - 130	1	40
Ethylbenzene	50.0	49.69		ug/L		99	70 - 130	1	20
Ethylene Dibromide	50.0	49.94		ug/L		100	70 - 130	0	30
Hexachlorobutadiene	50.0	54.27		ug/L		109	70 - 130	0	20
Isopropylbenzene	50.0	48.93		ug/L		98	70 - 130	1	30
Methyl tert-butyl ether	50.0	49.64		ug/L		99	70 - 130	2	30
Methylene Chloride	50.0	46.11		ug/L		92	70 - 130	3	30
m-Xylene & p-Xylene	50.0	48.44		ug/L		97	70 - 130	1	30
Naphthalene	50.0	91.77	*+	ug/L		184	57 - 149	0	30
n-Butylbenzene	50.0	45.84		ug/L		92	70 - 130	1	30
N-Propylbenzene	50.0	46.73		ug/L		93	70 - 130	0	30
o-Xylene	50.0	49.78		ug/L		100	70 - 130	3	30
sec-Butylbenzene	50.0	44.55		ug/L		89	70 - 130	1	30
Styrene	50.0	49.58		ug/L		99	70 - 130	2	30
tert-Butylbenzene	50.0	47.31		ug/L		95	70 - 130	1	30
Tetrachloroethene	50.0	47.46		ug/L		95	70 - 130	0	30
Toluene	50.0	47.19		ug/L		94	70 - 130	2	30
trans-1,2-Dichloroethene	50.0	42.99		ug/L		86	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	55.03		ug/L		110	70 - 130	2	30
Trichloroethene	50.0	47.09		ug/L		94	70 - 130	0	30
Trichlorofluoromethane	50.0	73.15	*+	ug/L		146	63 - 142	3	30
Vinyl acetate	100	84.87		ug/L		85	67 - 135	0	30
Vinyl chloride	50.0	48.25		ug/L		97	66 - 129	1	30
Xylenes, Total	100	98.22		ug/L		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 680-750563/1-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
1,2,4,5-Tetrachlorobenzene	<4.50		10.0	4.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
1,2,4-Trichlorobenzene	<3.40		10.0	3.40	ug/L		11/14/22 14:51	11/17/22 16:14	1
1,2-Dichlorobenzene	<2.50		10.0	2.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
1,2-Diphenylhydrazine	<3.70		10.0	3.70	ug/L		11/14/22 14:51	11/17/22 16:14	1

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

Lab Sample ID: MB 680-750563/1-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<2.90		10.0	2.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
1,3-Dinitrobenzene	<3.90		10.0	3.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
1,4-Dichlorobenzene	<3.30		10.0	3.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
1-Methylnaphthalene	<4.70		10.0	4.70	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,2'-oxybis[1-chloropropane]	<3.10		10.0	3.10	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,3,4,6-Tetrachlorophenol	<4.30		10.0	4.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		11/14/22 14:51	11/17/22 16:14	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		11/14/22 14:51	11/17/22 16:14	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		11/14/22 14:51	11/17/22 16:14	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		11/14/22 14:51	11/17/22 16:14	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
4-Nitroaniline	<3.00		50.0	3.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		11/14/22 14:51	11/17/22 16:14	1
Acenaphthene	<4.40		10.0	4.40	ug/L		11/14/22 14:51	11/17/22 16:14	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Acetophenone	<2.20		10.0	2.20	ug/L		11/14/22 14:51	11/17/22 16:14	1
Anthracene	<3.60		10.0	3.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Atrazine	<2.20		10.0	2.20	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzoic acid	<13.0		50.0	13.0	ug/L		11/14/22 14:51	11/17/22 16:14	1
Benzyl alcohol	<2.60		10.0	2.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Carbazole	<1.80		10.0	1.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Chrysene	<3.80		10.0	3.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		11/14/22 14:51	11/17/22 16:14	1

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

Lab Sample ID: MB 680-750563/1-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<1.90		10.0	1.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		11/14/22 14:51	11/17/22 16:14	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		11/14/22 14:51	11/17/22 16:14	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		11/14/22 14:51	11/17/22 16:14	1
Fluoranthene	<1.60		10.0	1.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Fluorene	<3.40		10.0	3.40	ug/L		11/14/22 14:51	11/17/22 16:14	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		11/14/22 14:51	11/17/22 16:14	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
Isophorone	<2.00		10.0	2.00	ug/L		11/14/22 14:51	11/17/22 16:14	1
Naphthalene	<3.50		10.0	3.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
N-Nitrosodimethylamine	<2.10		10.0	2.10	ug/L		11/14/22 14:51	11/17/22 16:14	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		11/14/22 14:51	11/17/22 16:14	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		11/14/22 14:51	11/17/22 16:14	1
Phenanthrene	<4.30		10.0	4.30	ug/L		11/14/22 14:51	11/17/22 16:14	1
Phenol	<1.50		10.0	1.50	ug/L		11/14/22 14:51	11/17/22 16:14	1
Pyrene	<3.70		10.0	3.70	ug/L		11/14/22 14:51	11/17/22 16:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*30 - 130*	*11/14/22 14:51*	*11/17/22 16:14*	*1*
2-Fluorobiphenyl	*71*		*25 - 130*	*11/14/22 14:51*	*11/17/22 16:14*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 130*	*11/14/22 14:51*	*11/17/22 16:14*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*11/14/22 14:51*	*11/17/22 16:14*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*11/14/22 14:51*	*11/17/22 16:14*	*1*
Terphenyl-d14 (Surr)	*104*		*35 - 131*	*11/14/22 14:51*	*11/17/22 16:14*	*1*

Lab Sample ID: LCS 680-750563/2-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	200	138.2		ug/L		69	26 - 130
1,2,4,5-Tetrachlorobenzene	200	134.0		ug/L		67	21 - 130
1,2,4-Trichlorobenzene	200	115.7		ug/L		58	14 - 130
1,2-Dichlorobenzene	200	100.5		ug/L		50	13 - 130
1,2-Diphenylhydrazine	200	147.4		ug/L		74	38 - 130
1,3-Dichlorobenzene	200	90.27		ug/L		45	12 - 130
1,3-Dinitrobenzene	200	194.3		ug/L		97	36 - 130
1,4-Dichlorobenzene	200	94.22		ug/L		47	13 - 130
1-Methylnaphthalene	200	134.9		ug/L		67	20 - 130
2,2'-oxybis[1-chloropropane]	200	143.4		ug/L		72	33 - 130
2,3,4,6-Tetrachlorophenol	200	166.0		ug/L		83	27 - 130
2,4,5-Trichlorophenol	200	151.4		ug/L		76	26 - 130

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

Lab Sample ID: LCS 680-750563/2-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	200	154.5		ug/L		77	28 - 130
2,4-Dichlorophenol	200	138.2		ug/L		69	27 - 130
2,4-Dimethylphenol	200	131.1		ug/L		66	26 - 130
2,4-Dinitrophenol	400	391.6		ug/L		98	23 - 130
2,4-Dinitrotoluene	200	187.5		ug/L		94	37 - 130
2,6-Dinitrotoluene	200	175.0		ug/L		87	35 - 130
2-Chloronaphthalene	200	138.7		ug/L		69	25 - 130
2-Chlorophenol	200	116.8		ug/L		58	24 - 130
2-Methylnaphthalene	200	137.5		ug/L		69	22 - 130
2-Methylphenol	200	112.7		ug/L		56	21 - 130
2-Nitroaniline	200	180.2		ug/L		90	36 - 130
2-Nitrophenol	200	157.2		ug/L		79	27 - 130
3 & 4 Methylphenol	200	108.2		ug/L		54	19 - 130
3,3'-Dichlorobenzidine	200	255.8		ug/L		128	35 - 130
3-Nitroaniline	200	164.8		ug/L		82	14 - 130
4,6-Dinitro-2-methylphenol	400	393.6		ug/L		98	38 - 130
4-Bromophenyl phenyl ether	200	152.4		ug/L		76	34 - 130
4-Chloro-3-methylphenol	200	158.9		ug/L		79	28 - 130
4-Chloroaniline	200	115.9		ug/L		58	10 - 130
4-Chlorophenyl phenyl ether	200	156.5		ug/L		78	31 - 130
4-Nitroaniline	200	169.7		ug/L		85	36 - 130
4-Nitrophenol	400	128.7		ug/L		32	10 - 130
Acenaphthene	200	154.2		ug/L		77	28 - 130
Acenaphthylene	200	152.2		ug/L		76	31 - 130
Acetophenone	200	137.0		ug/L		69	28 - 130
Anthracene	200	150.0		ug/L		75	36 - 130
Atrazine	200	174.8		ug/L		87	10 - 142
Benzaldehyde	200	135.2		ug/L		68	22 - 130
Benzo[a]anthracene	200	180.9		ug/L		90	34 - 130
Benzo[a]pyrene	200	159.4		ug/L		80	36 - 130
Benzo[b]fluoranthene	200	169.5		ug/L		85	35 - 130
Benzo[g,h,i]perylene	200	160.9		ug/L		80	35 - 130
Benzo[k]fluoranthene	200	153.2		ug/L		77	34 - 130
Benzoic acid	200	71.54		ug/L		36	10 - 130
Benzyl alcohol	200	133.0		ug/L		66	21 - 130
Bis(2-chloroethoxy)methane	200	140.7		ug/L		70	31 - 130
Bis(2-chloroethyl)ether	200	137.3		ug/L		69	30 - 130
Bis(2-ethylhexyl) phthalate	200	211.9		ug/L		106	33 - 138
Butyl benzyl phthalate	200	218.0		ug/L		109	35 - 135
Carbazole	200	154.4		ug/L		77	36 - 130
Chrysene	200	180.4		ug/L		90	33 - 130
Dibenz(a,h)anthracene	200	160.9		ug/L		80	35 - 130
Dibenzofuran	200	147.7		ug/L		74	31 - 130
Diethyl phthalate	200	163.1		ug/L		82	36 - 130
Dimethyl phthalate	200	161.6		ug/L		81	34 - 130
Di-n-butyl phthalate	200	171.3		ug/L		86	35 - 130
Di-n-octyl phthalate	200	218.5		ug/L		109	34 - 139
Fluoranthene	200	155.5		ug/L		78	35 - 130
Fluorene	200	152.0		ug/L		76	33 - 130

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

Lab Sample ID: LCS 680-750563/2-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750563

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hexachlorobenzene			200	149.1		ug/L		75	30 - 130		
Hexachlorobutadiene			200	102.9		ug/L		51	12 - 130		
Hexachlorocyclopentadiene			200	113.5		ug/L		57	15 - 130		
Hexachloroethane			200	90.30		ug/L		45	12 - 130		
Indeno[1,2,3-cd]pyrene			200	181.9		ug/L		91	34 - 130		
Isophorone			200	152.7		ug/L		76	27 - 130		
Naphthalene			200	112.9		ug/L		56	19 - 130		
Nitrobenzene			200	135.4		ug/L		68	32 - 130		
N-Nitrosodimethylamine			200	71.98		ug/L		36	15 - 130		
N-Nitrosodi-n-propylamine			200	162.0		ug/L		81	33 - 130		
N-Nitrosodiphenylamine			200	151.3		ug/L		76	35 - 130		
Pentachlorophenol			400	281.3		ug/L		70	24 - 130		
Phenanthrene			200	147.0		ug/L		74	36 - 130		
Phenol			200	66.43		ug/L		33	10 - 130		
Pyrene			200	194.0		ug/L		97	33 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*30 - 130*
2-Fluorobiphenyl	*72*		*25 - 130*
2-Fluorophenol (Surr)	*35*		*10 - 130*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*28*		*10 - 130*
Terphenyl-d14 (Surr)	*107*		*35 - 131*

Lab Sample ID: LCSD 680-750563/3-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 750563

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			200	143.4		ug/L		72	26 - 130	4	50
1,2,4,5-Tetrachlorobenzene			200	139.0		ug/L		70	21 - 130	4	50
1,2,4-Trichlorobenzene			200	120.6		ug/L		60	14 - 130	4	50
1,2-Dichlorobenzene			200	107.2		ug/L		54	13 - 130	7	50
1,2-Diphenylhydrazine			200	157.8		ug/L		79	38 - 130	7	50
1,3-Dichlorobenzene			200	98.76		ug/L		49	12 - 130	9	50
1,3-Dinitrobenzene			200	210.9		ug/L		105	36 - 130	8	50
1,4-Dichlorobenzene			200	101.7		ug/L		51	13 - 130	8	50
1-Methylnaphthalene			200	138.8		ug/L		69	20 - 130	3	50
2,2'-oxybis[1-chloropropane]			200	144.8		ug/L		72	33 - 130	1	50
2,3,4,6-Tetrachlorophenol			200	173.4		ug/L		87	27 - 130	4	50
2,4,5-Trichlorophenol			200	150.2		ug/L		75	26 - 130	1	50
2,4,6-Trichlorophenol			200	156.5		ug/L		78	28 - 130	1	50
2,4-Dichlorophenol			200	138.2		ug/L		69	27 - 130	0	50
2,4-Dimethylphenol			200	132.3		ug/L		66	26 - 130	1	50
2,4-Dinitrophenol			400	413.1		ug/L		103	23 - 130	5	50
2,4-Dinitrotoluene			200	203.5		ug/L		102	37 - 130	8	50
2,6-Dinitrotoluene			200	184.3		ug/L		92	35 - 130	5	50
2-Chloronaphthalene			200	142.7		ug/L		71	25 - 130	3	50

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

Lab Sample ID: LCSD 680-750563/3-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 750563

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	200	115.5		ug/L		58	24 - 130	1	50
2-Methylnaphthalene	200	142.3		ug/L		71	22 - 130	3	50
2-Methylphenol	200	111.6		ug/L		56	21 - 130	1	50
2-Nitroaniline	200	186.9		ug/L		93	36 - 130	4	50
2-Nitrophenol	200	154.9		ug/L		77	27 - 130	2	50
3 & 4 Methylphenol	200	103.3		ug/L		52	19 - 130	5	50
3,3'-Dichlorobenzidine	200	301.7	*+	ug/L		151	35 - 130	16	50
3-Nitroaniline	200	176.3		ug/L		88	14 - 130	7	50
4,6-Dinitro-2-methylphenol	400	418.0		ug/L		105	38 - 130	6	50
4-Bromophenyl phenyl ether	200	164.0		ug/L		82	34 - 130	7	50
4-Chloro-3-methylphenol	200	158.2		ug/L		79	28 - 130	0	50
4-Chloroaniline	200	115.4		ug/L		58	10 - 130	0	50
4-Chlorophenyl phenyl ether	200	165.7		ug/L		83	31 - 130	6	50
4-Nitroaniline	200	182.4		ug/L		91	36 - 130	7	50
4-Nitrophenol	400	126.5		ug/L		32	10 - 130	2	50
Acenaphthene	200	161.4		ug/L		81	28 - 130	5	50
Acenaphthylene	200	156.7		ug/L		78	31 - 130	3	50
Acetophenone	200	139.9		ug/L		70	28 - 130	2	50
Anthracene	200	165.5		ug/L		83	36 - 130	10	50
Atrazine	200	186.4		ug/L		93	10 - 142	6	50
Benzaldehyde	200	136.9		ug/L		68	22 - 130	1	50
Benzo[a]anthracene	200	198.6		ug/L		99	34 - 130	9	50
Benzo[a]pyrene	200	173.6		ug/L		87	36 - 130	9	50
Benzo[b]fluoranthene	200	178.0		ug/L		89	35 - 130	5	50
Benzo[g,h,i]perylene	200	175.2		ug/L		88	35 - 130	9	50
Benzo[k]fluoranthene	200	174.6		ug/L		87	34 - 130	13	50
Benzoic acid	200	71.87		ug/L		36	10 - 130	0	50
Benzyl alcohol	200	130.7		ug/L		65	21 - 130	2	50
Bis(2-chloroethoxy)methane	200	142.5		ug/L		71	31 - 130	1	50
Bis(2-chloroethyl)ether	200	140.0		ug/L		70	30 - 130	2	50
Bis(2-ethylhexyl) phthalate	200	232.2		ug/L		116	33 - 138	9	50
Butyl benzyl phthalate	200	240.7		ug/L		120	35 - 135	10	50
Carbazole	200	168.3		ug/L		84	36 - 130	9	50
Chrysene	200	193.2		ug/L		97	33 - 130	7	50
Dibenz(a,h)anthracene	200	174.0		ug/L		87	35 - 130	8	50
Dibenzofuran	200	154.6		ug/L		77	31 - 130	5	50
Diethyl phthalate	200	179.2		ug/L		90	36 - 130	9	50
Dimethyl phthalate	200	172.0		ug/L		86	34 - 130	6	50
Di-n-butyl phthalate	200	189.1		ug/L		95	35 - 130	10	50
Di-n-octyl phthalate	200	238.4		ug/L		119	34 - 139	9	50
Fluoranthene	200	171.1		ug/L		86	35 - 130	10	50
Fluorene	200	158.9		ug/L		79	33 - 130	4	50
Hexachlorobenzene	200	161.7		ug/L		81	30 - 130	8	50
Hexachlorobutadiene	200	108.4		ug/L		54	12 - 130	5	50
Hexachlorocyclopentadiene	200	121.3		ug/L		61	15 - 130	7	50
Hexachloroethane	200	96.69		ug/L		48	12 - 130	7	50
Indeno[1,2,3-cd]pyrene	200	195.2		ug/L		98	34 - 130	7	50
Isophorone	200	154.5		ug/L		77	27 - 130	1	50
Naphthalene	200	115.6		ug/L		58	19 - 130	2	50

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

Lab Sample ID: LCSD 680-750563/3-A
Matrix: Water
Analysis Batch: 751183

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 750563

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrobenzene			200	136.3		ug/L		68	32 - 130	1	50
N-Nitrosodimethylamine			200	70.99		ug/L		35	15 - 130	1	50
N-Nitrosodi-n-propylamine			200	163.2		ug/L		82	33 - 130	1	50
N-Nitrosodiphenylamine			200	162.5		ug/L		81	35 - 130	7	50
Pentachlorophenol			400	310.8		ug/L		78	24 - 130	10	50
Phenanthrene			200	161.5		ug/L		81	36 - 130	9	50
Phenol			200	65.26		ug/L		33	10 - 130	2	50
Pyrene			200	213.5		ug/L		107	33 - 130	10	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*30 - 130*
2-Fluorobiphenyl	*70*		*25 - 130*
2-Fluorophenol (Surr)	*32*		*10 - 130*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*
Phenol-d5 (Surr)	*25*		*10 - 130*
Terphenyl-d14 (Surr)	*112*		*35 - 131*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-750394/1-A
Matrix: Water
Analysis Batch: 750635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 750394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		11/14/22 05:40	11/14/22 16:53	1
Barium	<4.40		10.0	4.40	ug/L		11/14/22 05:40	11/14/22 16:53	1
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 05:40	11/14/22 16:53	1
Chromium	<1.10		10.0	1.10	ug/L		11/14/22 05:40	11/14/22 16:53	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 05:40	11/14/22 16:53	1
Lead	<6.60		10.0	6.60	ug/L		11/14/22 05:40	11/14/22 16:53	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 05:40	11/14/22 16:53	1

Lab Sample ID: LCS 680-750394/2-A
Matrix: Water
Analysis Batch: 750635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 750394

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			100	99.87		ug/L		100	80 - 120		
Barium			100	103.1		ug/L		103	80 - 120		
Cadmium			50.0	49.50		ug/L		99	80 - 120		
Chromium			100	102.4		ug/L		102	80 - 120		
Silver			50.0	48.29		ug/L		97	80 - 120		
Lead			505	498.1		ug/L		99	80 - 120		
Selenium			100	101.1		ug/L		101	80 - 120		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 680-750629/1-B
Matrix: Water
Analysis Batch: 750846

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 750733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 22:29	1

Lab Sample ID: LCS 680-750629/2-B
Matrix: Water
Analysis Batch: 750846

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 750733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead, Dissolved	505	447.4		ug/L		89	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-752023/1-A
Matrix: Water
Analysis Batch: 752620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/22/22 17:43	11/28/22 13:48	1

Lab Sample ID: LCS 680-752023/2-A
Matrix: Water
Analysis Batch: 752620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.679		ug/L		107	80 - 120

Lab Sample ID: 680-225317-1 MS
Matrix: Water
Analysis Batch: 752620

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 752023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.0800		1.00	1.050		ug/L		105	80 - 120

Lab Sample ID: 680-225317-1 MSD
Matrix: Water
Analysis Batch: 752620

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 752023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.0800		1.00	1.069		ug/L		107	80 - 120	2	20

GC/MS VOA

Analysis Batch: 751094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total/NA	Water	8260D	
680-225317-3	MW-13	Total/NA	Water	8260D	
MB 680-751094/9	Method Blank	Total/NA	Water	8260D	
LCS 680-751094/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-751094/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 751111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-2	MW-12	Total/NA	Water	8260D	
680-225317-4	Trip Blank -2	Total/NA	Water	8260D	
MB 680-751111/9	Method Blank	Total/NA	Water	8260D	
LCS 680-751111/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-751111/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 750563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total/NA	Water	3510C	
680-225317-2	MW-12	Total/NA	Water	3510C	
680-225317-3	MW-13	Total/NA	Water	3510C	
MB 680-750563/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-750563/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 680-750563/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 751183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total/NA	Water	8270E	750563
680-225317-2	MW-12	Total/NA	Water	8270E	750563
680-225317-3	MW-13	Total/NA	Water	8270E	750563
MB 680-750563/1-A	Method Blank	Total/NA	Water	8270E	750563
LCS 680-750563/2-A	Lab Control Sample	Total/NA	Water	8270E	750563
LCSD 680-750563/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	750563

Metals

Prep Batch: 750394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total Recoverable	Water	3005A	
680-225317-2	MW-12	Total Recoverable	Water	3005A	
680-225317-3	MW-13	Total Recoverable	Water	3005A	
MB 680-750394/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-750394/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Filtration Batch: 750629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Dissolved	Water	FILTRATION	
680-225317-2	MW-12	Dissolved	Water	FILTRATION	
680-225317-3	MW-13	Dissolved	Water	FILTRATION	
MB 680-750629/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-750629/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Metals

Analysis Batch: 750635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total Recoverable	Water	6010D	750394
680-225317-2	MW-12	Total Recoverable	Water	6010D	750394
680-225317-3	MW-13	Total Recoverable	Water	6010D	750394
MB 680-750394/1-A	Method Blank	Total Recoverable	Water	6010D	750394
LCS 680-750394/2-A	Lab Control Sample	Total Recoverable	Water	6010D	750394

Prep Batch: 750733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Dissolved	Water	3005A	750629
680-225317-2	MW-12	Dissolved	Water	3005A	750629
680-225317-3	MW-13	Dissolved	Water	3005A	750629
MB 680-750629/1-B	Method Blank	Dissolved	Water	3005A	750629
LCS 680-750629/2-B	Lab Control Sample	Dissolved	Water	3005A	750629

Analysis Batch: 750846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Dissolved	Water	6010D	750733
680-225317-2	MW-12	Dissolved	Water	6010D	750733
680-225317-3	MW-13	Dissolved	Water	6010D	750733
MB 680-750629/1-B	Method Blank	Dissolved	Water	6010D	750733
LCS 680-750629/2-B	Lab Control Sample	Dissolved	Water	6010D	750733

Prep Batch: 752023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total/NA	Water	7470A	
680-225317-2	MW-12	Total/NA	Water	7470A	
680-225317-3	MW-13	Total/NA	Water	7470A	
MB 680-752023/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-752023/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-225317-1 MS	MW-11	Total/NA	Water	7470A	
680-225317-1 MSD	MW-11	Total/NA	Water	7470A	

Analysis Batch: 752620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225317-1	MW-11	Total/NA	Water	7470A	752023
680-225317-2	MW-12	Total/NA	Water	7470A	752023
680-225317-3	MW-13	Total/NA	Water	7470A	752023
MB 680-752023/1-A	Method Blank	Total/NA	Water	7470A	752023
LCS 680-752023/2-A	Lab Control Sample	Total/NA	Water	7470A	752023
680-225317-1 MS	MW-11	Total/NA	Water	7470A	752023
680-225317-1 MSD	MW-11	Total/NA	Water	7470A	752023

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-225317-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: MW-11
Lab Sample ID: 680-225317-1
Date Collected: 11/09/22 09:40
Matrix: Water
Date Received: 11/11/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	751094	11/17/22 20:30	Y1S	EET SAV
	Instrument ID: CMSAG									
Total/NA	Prep	3510C			529.4 mL	1 mL	750563	11/14/22 14:51	LA	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	751183	11/18/22 00:47	T1C	EET SAV
	Instrument ID: CMSN									
Dissolved	Filtration	FILTRATION			50 mL	50 mL	750629	11/15/22 06:50	RR	EET SAV
Dissolved	Prep	3005A			50 mL	50 mL	750733	11/15/22 06:50	RR	EET SAV
Dissolved	Analysis	6010D		1			750846	11/15/22 22:59	BJB	EET SAV
	Instrument ID: ICPH									
Total Recoverable	Prep	3005A			50 mL	50 mL	750394	11/14/22 05:40	RR	EET SAV
Total Recoverable	Analysis	6010D		1			750635	11/14/22 17:14	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	752023	11/22/22 17:43	JKL	EET SAV
Total/NA	Analysis	7470A		1			752620	11/28/22 13:55	BCB	EET SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-12
Lab Sample ID: 680-225317-2
Date Collected: 11/09/22 10:55
Matrix: Water
Date Received: 11/11/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	751111	11/17/22 22:13	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3510C			495.3 mL	1 mL	750563	11/14/22 14:51	LA	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	751183	11/18/22 01:11	T1C	EET SAV
	Instrument ID: CMSN									
Dissolved	Filtration	FILTRATION			50 mL	50 mL	750629	11/15/22 06:50	RR	EET SAV
Dissolved	Prep	3005A			50 mL	50 mL	750733	11/15/22 06:50	RR	EET SAV
Dissolved	Analysis	6010D		1			750846	11/15/22 22:53	BJB	EET SAV
	Instrument ID: ICPH									
Total Recoverable	Prep	3005A			50 mL	50 mL	750394	11/14/22 05:40	RR	EET SAV
Total Recoverable	Analysis	6010D		1			750635	11/14/22 17:11	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	752023	11/22/22 17:43	JKL	EET SAV
Total/NA	Analysis	7470A		1			752620	11/28/22 14:05	BCB	EET SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-13
Lab Sample ID: 680-225317-3
Date Collected: 11/09/22 12:31
Matrix: Water
Date Received: 11/11/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	751094	11/17/22 21:08	Y1S	EET SAV
	Instrument ID: CMSAG									

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-225317-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: MW-13
Lab Sample ID: 680-225317-3
Date Collected: 11/09/22 12:31
Matrix: Water
Date Received: 11/11/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			534.5 mL	1 mL	750563	11/14/22 14:51	LA	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	751183	11/18/22 01:36	T1C	EET SAV
	Instrument ID: CMSN									
Dissolved	Filtration	FILTRATION			50 mL	50 mL	750629	11/15/22 06:50	RR	EET SAV
Dissolved	Prep	3005A			50 mL	50 mL	750733	11/15/22 06:50	RR	EET SAV
Dissolved	Analysis	6010D		1			750846	11/15/22 22:56	BJB	EET SAV
	Instrument ID: ICPH									
Total Recoverable	Prep	3005A			50 mL	50 mL	750394	11/14/22 05:40	RR	EET SAV
Total Recoverable	Analysis	6010D		1			750635	11/14/22 17:08	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	752023	11/22/22 17:43	JKL	EET SAV
Total/NA	Analysis	7470A		1			752620	11/28/22 14:09	BCB	EET SAV
	Instrument ID: LEEMAN2									

Client Sample ID: Trip Blank -2
Lab Sample ID: 680-225317-4
Date Collected: 11/09/22 00:00
Matrix: Water
Date Received: 11/11/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	751111	11/17/22 16:43	Y1S	EET SAV
	Instrument ID: CMSO2									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Terracon Consultants, Inc. Job ID: 680-225317-1
Project/Site: Public Works Laydown Yard LSI

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225317-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV

Protocol References:

None = None

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Patrick Homan	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-139390-50841 1
Client Contact: Patrick Homan	Phone: 843-277-8448	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: SC	Page: Page 1 of 1
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 1800 Reynolds Ave	Due Date Requested:			
City: North Charleston	TAT Requested (days): standard			
State, Zip: SC, 29405	Compliance Project: Δ Yes Δ No			
Phone: 843-277-8448	Lab Project #: 68026506			
Email: Patrick.Homan@terracon com	PO #: EN227366			
Project Name: Public Works Laydown Yard LSI	Project #: EN227366			
Site: C 11	WO#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Dissolved Lead (Lab Filtered)	6010D - RCRA Metals - No Mercury	8270E - SVOCs	8260D - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	N	A	X	
~~TMW-1~~				Water								
~~TMW-2~~				Water								
MW-11	11-9-22	0940		Water			X	X	X	X		
MW-12	11-9-22	1055		Water			X	X	X	X		
MW-13	11-9-22	1231		Water			X	X	X	X		
				Water								
~~Trip Blank - 1~~				Water								
Trip Blank - 2				Water						X		
Trip Blank												

244-ATLANTA

680-225317 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested I, II III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11-10-22 1420		Barbara DiCola	11-11-22 14:25	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				11-11-22 1700	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 5.0/5.0 5.1/5.1

Ver 01/16/2019

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-225317-1

Login Number: 225317

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Patrick Homan
Terracon Consultants, Inc.
1800 Reynolds Ave.
North Charleston South Carolina 29405

Generated 11/21/2022 6:44:53 PM

JOB DESCRIPTION

Public Works Laydown Yard LSI

JOB NUMBER

680-225318-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

myEOL

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-225318-1	TMW-1	Water	11/09/22 13:50	11/12/22 17:00
680-225318-2	TMW-2	Water	11/09/22 14:40	11/12/22 17:00
680-225318-3	Trip Blank - 1	Water	11/09/22 00:00	11/12/22 17:00

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225318-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi 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.

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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job ID: 680-225318-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-225318-1

Receipt

The samples were received on 11/12/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.0°C and 5.1°C

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-750879 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-750879 recovered outside control limits for the following analytes: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method 8270E: The following samples formed emulsions during the extraction procedure: TMW-1 (680-225318-1) and TMW-2 (680-225318-2). The emulsions were broken up using sodium sulfate.

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

Metals

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

Detection Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225318-1

Client Sample ID: TMW-1 — Lab Sample ID: 680-225318-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzyl alcohol	2.92	J	9.20	2.39	ug/L	1		8270E	Total/NA
Arsenic	17.2	J	20.0	6.40	ug/L	1		6010D	Total Recoverable
Barium	72.4		10.0	4.40	ug/L	1		6010D	Total Recoverable

Client Sample ID: TMW-2 — Lab Sample ID: 680-225318-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Isopropyltoluene	45.1		1.00	0.440	ug/L	1		8260D	Total/NA
Acetone	6.98	J	10.0	3.70	ug/L	1		8260D	Total/NA
Ethylbenzene	0.716	J	1.00	0.200	ug/L	1		8260D	Total/NA
Barium	75.2		10.0	4.40	ug/L	1		6010D	Total Recoverable
Chromium	1.20	J	10.0	1.10	ug/L	1		6010D	Total Recoverable
Lead	9.76	J	10.0	6.60	ug/L	1		6010D	Total Recoverable
Barium, Dissolved	62.1		10.0	4.40	ug/L	1		6010D	Dissolved

Client Sample ID: Trip Blank - 1 — Lab Sample ID: 680-225318-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11.0		10.0	3.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Terracon Consultants, Inc.
Job ID: 680-225318-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: TMW-1
Lab Sample ID: 680-225318-1
Date Collected: 11/09/22 13:50
Matrix: Water
Date Received: 11/12/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/16/22 21:59	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/16/22 21:59	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/16/22 21:59	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/16/22 21:59	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/16/22 21:59	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/16/22 21:59	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/16/22 21:59	1
1,2,3-Trichlorobenzene	<0.810	*+	5.00	0.810	ug/L			11/16/22 21:59	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/16/22 21:59	1
1,2,4-Trichlorobenzene	<0.530	*+	5.00	0.530	ug/L			11/16/22 21:59	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 21:59	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/16/22 21:59	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 21:59	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/16/22 21:59	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/16/22 21:59	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/16/22 21:59	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/16/22 21:59	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 21:59	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/16/22 21:59	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 21:59	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/16/22 21:59	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/16/22 21:59	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/16/22 21:59	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/16/22 21:59	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/16/22 21:59	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/16/22 21:59	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/16/22 21:59	1
Acetone	<3.70		10.0	3.70	ug/L			11/16/22 21:59	1
Benzene	<0.270		1.00	0.270	ug/L			11/16/22 21:59	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/16/22 21:59	1
Bromoform	<0.590		1.00	0.590	ug/L			11/16/22 21:59	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/16/22 21:59	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/16/22 21:59	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/16/22 21:59	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/16/22 21:59	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/16/22 21:59	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/16/22 21:59	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/16/22 21:59	1
Chloroform	<0.270		1.00	0.270	ug/L			11/16/22 21:59	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/16/22 21:59	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/16/22 21:59	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/16/22 21:59	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/16/22 21:59	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/16/22 21:59	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/16/22 21:59	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/16/22 21:59	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/16/22 21:59	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/16/22 21:59	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/16/22 21:59	1

Client Sample ID: TMW-1
Date Collected: 11/09/22 13:50
Date Received: 11/12/22 17:00

Lab Sample ID: 680-225318-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/16/22 21:59	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/16/22 21:59	1
Naphthalene	<2.40	*+	5.00	2.40	ug/L			11/16/22 21:59	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/16/22 21:59	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/16/22 21:59	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/16/22 21:59	1
Styrene	<0.270		1.00	0.270	ug/L			11/16/22 21:59	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 21:59	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/16/22 21:59	1
Toluene	<0.250		1.00	0.250	ug/L			11/16/22 21:59	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/16/22 21:59	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/16/22 21:59	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/16/22 21:59	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			11/16/22 21:59	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/16/22 21:59	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/16/22 21:59	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/16/22 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*11/16/22 21:59*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/16/22 21:59*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/16/22 21:59*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/16/22 21:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.23		9.20	4.23	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,2,4,5-Tetrachlorobenzene	<4.14		9.20	4.14	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,2,4-Trichlorobenzene	<3.13		9.20	3.13	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,2-Dichlorobenzene	<2.30		9.20	2.30	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,2-Diphenylhydrazine	<3.40		9.20	3.40	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,3-Dichlorobenzene	<2.67		9.20	2.67	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,3-Dinitrobenzene	<3.59		9.20	3.59	ug/L		11/16/22 13:39	11/18/22 19:55	1
1,4-Dichlorobenzene	<3.04		9.20	3.04	ug/L		11/16/22 13:39	11/18/22 19:55	1
1-Methylnaphthalene	<4.32		9.20	4.32	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,2'-oxybis[1-chloropropane]	<2.85		9.20	2.85	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,3,4,6-Tetrachlorophenol	<3.96		9.20	3.96	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,4,5-Trichlorophenol	<3.04		9.20	3.04	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,4,6-Trichlorophenol	<2.02		9.20	2.02	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,4-Dichlorophenol	<3.40		9.20	3.40	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,4-Dimethylphenol	<2.76		9.20	2.76	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,4-Dinitrophenol	<14.7		46.0	14.7	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,4-Dinitrotoluene	<2.12		9.20	2.12	ug/L		11/16/22 13:39	11/18/22 19:55	1
2,6-Dinitrotoluene	<2.58		9.20	2.58	ug/L		11/16/22 13:39	11/18/22 19:55	1
2-Chloronaphthalene	<4.42		9.20	4.42	ug/L		11/16/22 13:39	11/18/22 19:55	1
2-Chlorophenol	<2.94		9.20	2.94	ug/L		11/16/22 13:39	11/18/22 19:55	1
2-Methylnaphthalene	<4.23		9.20	4.23	ug/L		11/16/22 13:39	11/18/22 19:55	1
2-Methylphenol	<1.66		9.20	1.66	ug/L		11/16/22 13:39	11/18/22 19:55	1
2-Nitroaniline	<2.67		46.0	2.67	ug/L		11/16/22 13:39	11/18/22 19:55	1
2-Nitrophenol	<3.59		9.20	3.59	ug/L		11/16/22 13:39	11/18/22 19:55	1

Client Sample ID: TMW-1
Date Collected: 11/09/22 13:50
Date Received: 11/12/22 17:00

Lab Sample ID: 680-225318-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<1.29		9.20	1.29	ug/L		11/16/22 13:39	11/18/22 19:55	1
3,3'-Dichlorobenzidine	<9.20		55.2	9.20	ug/L		11/16/22 13:39	11/18/22 19:55	1
3-Nitroaniline	<2.76		46.0	2.76	ug/L		11/16/22 13:39	11/18/22 19:55	1
4,6-Dinitro-2-methylphenol	<4.88		46.0	4.88	ug/L		11/16/22 13:39	11/18/22 19:55	1
4-Bromophenyl phenyl ether	<4.32		9.20	4.32	ug/L		11/16/22 13:39	11/18/22 19:55	1
4-Chloro-3-methylphenol	<2.30		9.20	2.30	ug/L		11/16/22 13:39	11/18/22 19:55	1
4-Chloroaniline	<0.920		18.4	0.920	ug/L		11/16/22 13:39	11/18/22 19:55	1
4-Chlorophenyl phenyl ether	<4.88		9.20	4.88	ug/L		11/16/22 13:39	11/18/22 19:55	1
4-Nitroaniline	<2.76		46.0	2.76	ug/L		11/16/22 13:39	11/18/22 19:55	1
4-Nitrophenol	<7.45		46.0	7.45	ug/L		11/16/22 13:39	11/18/22 19:55	1
Acenaphthene	<4.05		9.20	4.05	ug/L		11/16/22 13:39	11/18/22 19:55	1
Acenaphthylene	<3.31		9.20	3.31	ug/L		11/16/22 13:39	11/18/22 19:55	1
Acetophenone	<2.02		9.20	2.02	ug/L		11/16/22 13:39	11/18/22 19:55	1
Anthracene	<3.31		9.20	3.31	ug/L		11/16/22 13:39	11/18/22 19:55	1
Atrazine	<2.02		9.20	2.02	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzaldehyde	<4.42		9.20	4.42	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzo[a]anthracene	<3.86		9.20	3.86	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzo[a]pyrene	<2.58		9.20	2.58	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzo[b]fluoranthene	<2.85		9.20	2.85	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzo[g,h,i]perylene	<2.76		9.20	2.76	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzo[k]fluoranthene	<2.67		9.20	2.67	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzoic acid	<12.0		46.0	12.0	ug/L		11/16/22 13:39	11/18/22 19:55	1
Benzyl alcohol	**2.92**	**J**	9.20	2.39	ug/L		11/16/22 13:39	11/18/22 19:55	1
Bis(2-chloroethoxy)methane	<1.66		9.20	1.66	ug/L		11/16/22 13:39	11/18/22 19:55	1
Bis(2-chloroethyl)ether	<3.31		9.20	3.31	ug/L		11/16/22 13:39	11/18/22 19:55	1
Bis(2-ethylhexyl) phthalate	<2.76		9.20	2.76	ug/L		11/16/22 13:39	11/18/22 19:55	1
Butyl benzyl phthalate	<2.58		9.20	2.58	ug/L		11/16/22 13:39	11/18/22 19:55	1
Carbazole	<1.66		9.20	1.66	ug/L		11/16/22 13:39	11/18/22 19:55	1
Chrysene	<3.50		9.20	3.50	ug/L		11/16/22 13:39	11/18/22 19:55	1
Dibenz(a,h)anthracene	<2.76		9.20	2.76	ug/L		11/16/22 13:39	11/18/22 19:55	1
Dibenzofuran	<1.75		9.20	1.75	ug/L		11/16/22 13:39	11/18/22 19:55	1
Diethyl phthalate	<2.02		9.20	2.02	ug/L		11/16/22 13:39	11/18/22 19:55	1
Dimethyl phthalate	<1.93		9.20	1.93	ug/L		11/16/22 13:39	11/18/22 19:55	1
Di-n-butyl phthalate	<2.12		9.20	2.12	ug/L		11/16/22 13:39	11/18/22 19:55	1
Di-n-octyl phthalate	<2.58		9.20	2.58	ug/L		11/16/22 13:39	11/18/22 19:55	1
Fluoranthene	<1.47		9.20	1.47	ug/L		11/16/22 13:39	11/18/22 19:55	1
Fluorene	<3.13		9.20	3.13	ug/L		11/16/22 13:39	11/18/22 19:55	1
Hexachlorobenzene	<1.47		9.20	1.47	ug/L		11/16/22 13:39	11/18/22 19:55	1
Hexachlorobutadiene	<3.68		9.20	3.68	ug/L		11/16/22 13:39	11/18/22 19:55	1
Hexachlorocyclopentadiene	<3.22		9.20	3.22	ug/L		11/16/22 13:39	11/18/22 19:55	1
Hexachloroethane	<3.31		9.20	3.31	ug/L		11/16/22 13:39	11/18/22 19:55	1
Indeno[1,2,3-cd]pyrene	<3.96		9.20	3.96	ug/L		11/16/22 13:39	11/18/22 19:55	1
Isophorone	<1.84		9.20	1.84	ug/L		11/16/22 13:39	11/18/22 19:55	1
Naphthalene	<3.22		9.20	3.22	ug/L		11/16/22 13:39	11/18/22 19:55	1
Nitrobenzene	<3.22		9.20	3.22	ug/L		11/16/22 13:39	11/18/22 19:55	1
N-Nitrosodimethylamine	<1.93		9.20	1.93	ug/L		11/16/22 13:39	11/18/22 19:55	1
N-Nitrosodi-n-propylamine	<2.21		9.20	2.21	ug/L		11/16/22 13:39	11/18/22 19:55	1
N-Nitrosodiphenylamine	<2.67		9.20	2.67	ug/L		11/16/22 13:39	11/18/22 19:55	1
Pentachlorophenol	<9.11		46.0	9.11	ug/L		11/16/22 13:39	11/18/22 19:55	1

Client Sample ID: TMW-1
Lab Sample ID: 680-225318-1

Date Collected: 11/09/22 13:50
Matrix: Water
Date Received: 11/12/22 17:00

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<3.96		9.20	3.96	ug/L		11/16/22 13:39	11/18/22 19:55	1
Phenol	<1.38		9.20	1.38	ug/L		11/16/22 13:39	11/18/22 19:55	1
Pyrene	<3.40		9.20	3.40	ug/L		11/16/22 13:39	11/18/22 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*30 - 130*	*11/16/22 13:39*	*11/18/22 19:55*	*1*
2-Fluorobiphenyl	*69*		*25 - 130*	*11/16/22 13:39*	*11/18/22 19:55*	*1*
2-Fluorophenol (Surr)	*34*		*10 - 130*	*11/16/22 13:39*	*11/18/22 19:55*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*11/16/22 13:39*	*11/18/22 19:55*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*11/16/22 13:39*	*11/18/22 19:55*	*1*
Terphenyl-d14 (Surr)	*90*		*35 - 131*	*11/16/22 13:39*	*11/18/22 19:55*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**17.2**	**J**	20.0	6.40	ug/L		11/14/22 06:02	11/14/22 16:41	1
Barium	**72.4**		10.0	4.40	ug/L		11/14/22 06:02	11/14/22 16:41	1
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 06:02	11/14/22 16:41	1
Chromium	<1.10		10.0	1.10	ug/L		11/14/22 06:02	11/14/22 16:41	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 06:02	11/14/22 16:41	1
Lead	<6.60		10.0	6.60	ug/L		11/14/22 06:02	11/14/22 16:41	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 06:02	11/14/22 16:41	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 23:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/15/22 17:09	11/17/22 10:11	1

Client Sample ID: TMW-2
Lab Sample ID: 680-225318-2

Date Collected: 11/09/22 14:40
Matrix: Water
Date Received: 11/12/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/16/22 21:11	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/16/22 21:11	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/16/22 21:11	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/16/22 21:11	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/16/22 21:11	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/16/22 21:11	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/16/22 21:11	1
1,2,3-Trichlorobenzene	<0.810	*+	5.00	0.810	ug/L			11/16/22 21:11	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/16/22 21:11	1
1,2,4-Trichlorobenzene	<0.530	*+	5.00	0.530	ug/L			11/16/22 21:11	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 21:11	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/16/22 21:11	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 21:11	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/16/22 21:11	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/16/22 21:11	1

Client Sample ID: TMW-2
Date Collected: 11/09/22 14:40
Date Received: 11/12/22 17:00

Lab Sample ID: 680-225318-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/16/22 21:11	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/16/22 21:11	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 21:11	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/16/22 21:11	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 21:11	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/16/22 21:11	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/16/22 21:11	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/16/22 21:11	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/16/22 21:11	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/16/22 21:11	1
4-Isopropyltoluene	**45.1**		1.00	0.440	ug/L			11/16/22 21:11	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/16/22 21:11	1
Acetone	**6.98**	**J**	10.0	3.70	ug/L			11/16/22 21:11	1
Benzene	<0.270		1.00	0.270	ug/L			11/16/22 21:11	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/16/22 21:11	1
Bromoform	<0.590		1.00	0.590	ug/L			11/16/22 21:11	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/16/22 21:11	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/16/22 21:11	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/16/22 21:11	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/16/22 21:11	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/16/22 21:11	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/16/22 21:11	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/16/22 21:11	1
Chloroform	<0.270		1.00	0.270	ug/L			11/16/22 21:11	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/16/22 21:11	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/16/22 21:11	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/16/22 21:11	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/16/22 21:11	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/16/22 21:11	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/16/22 21:11	1
Ethylbenzene	**0.716**	**J**	1.00	0.200	ug/L			11/16/22 21:11	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/16/22 21:11	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/16/22 21:11	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/16/22 21:11	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/16/22 21:11	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/16/22 21:11	1
Naphthalene	<2.40	*+	5.00	2.40	ug/L			11/16/22 21:11	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/16/22 21:11	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/16/22 21:11	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/16/22 21:11	1
Styrene	<0.270		1.00	0.270	ug/L			11/16/22 21:11	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 21:11	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/16/22 21:11	1
Toluene	<0.250		1.00	0.250	ug/L			11/16/22 21:11	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/16/22 21:11	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/16/22 21:11	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/16/22 21:11	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			11/16/22 21:11	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/16/22 21:11	1

Client Sample ID: TMW-2
Lab Sample ID: 680-225318-2
Date Collected: 11/09/22 14:40
Matrix: Water
Date Received: 11/12/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/16/22 21:11	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/16/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*11/16/22 21:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/16/22 21:11*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/16/22 21:11*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/16/22 21:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.40		9.56	4.40	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,2,4,5-Tetrachlorobenzene	<4.30		9.56	4.30	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,2,4-Trichlorobenzene	<3.25		9.56	3.25	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,2-Dichlorobenzene	<2.39		9.56	2.39	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,2-Diphenylhydrazine	<3.54		9.56	3.54	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,3-Dichlorobenzene	<2.77		9.56	2.77	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,3-Dinitrobenzene	<3.73		9.56	3.73	ug/L		11/16/22 13:39	11/18/22 20:19	1
1,4-Dichlorobenzene	<3.15		9.56	3.15	ug/L		11/16/22 13:39	11/18/22 20:19	1
1-Methylnaphthalene	<4.49		9.56	4.49	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,2'-oxybis[1-chloropropane]	<2.96		9.56	2.96	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,3,4,6-Tetrachlorophenol	<4.11		9.56	4.11	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,4,5-Trichlorophenol	<3.15		9.56	3.15	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,4,6-Trichlorophenol	<2.10		9.56	2.10	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,4-Dichlorophenol	<3.54		9.56	3.54	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,4-Dimethylphenol	<2.87		9.56	2.87	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,4-Dinitrophenol	<15.3		47.8	15.3	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,4-Dinitrotoluene	<2.20		9.56	2.20	ug/L		11/16/22 13:39	11/18/22 20:19	1
2,6-Dinitrotoluene	<2.68		9.56	2.68	ug/L		11/16/22 13:39	11/18/22 20:19	1
2-Chloronaphthalene	<4.59		9.56	4.59	ug/L		11/16/22 13:39	11/18/22 20:19	1
2-Chlorophenol	<3.06		9.56	3.06	ug/L		11/16/22 13:39	11/18/22 20:19	1
2-Methylnaphthalene	<4.40		9.56	4.40	ug/L		11/16/22 13:39	11/18/22 20:19	1
2-Methylphenol	<1.72		9.56	1.72	ug/L		11/16/22 13:39	11/18/22 20:19	1
2-Nitroaniline	<2.77		47.8	2.77	ug/L		11/16/22 13:39	11/18/22 20:19	1
2-Nitrophenol	<3.73		9.56	3.73	ug/L		11/16/22 13:39	11/18/22 20:19	1
3 & 4 Methylphenol	<1.34		9.56	1.34	ug/L		11/16/22 13:39	11/18/22 20:19	1
3,3'-Dichlorobenzidine	<9.56		57.4	9.56	ug/L		11/16/22 13:39	11/18/22 20:19	1
3-Nitroaniline	<2.87		47.8	2.87	ug/L		11/16/22 13:39	11/18/22 20:19	1
4,6-Dinitro-2-methylphenol	<5.07		47.8	5.07	ug/L		11/16/22 13:39	11/18/22 20:19	1
4-Bromophenyl phenyl ether	<4.49		9.56	4.49	ug/L		11/16/22 13:39	11/18/22 20:19	1
4-Chloro-3-methylphenol	<2.39		9.56	2.39	ug/L		11/16/22 13:39	11/18/22 20:19	1
4-Chloroaniline	<0.956		19.1	0.956	ug/L		11/16/22 13:39	11/18/22 20:19	1
4-Chlorophenyl phenyl ether	<5.07		9.56	5.07	ug/L		11/16/22 13:39	11/18/22 20:19	1
4-Nitroaniline	<2.87		47.8	2.87	ug/L		11/16/22 13:39	11/18/22 20:19	1
4-Nitrophenol	<7.74		47.8	7.74	ug/L		11/16/22 13:39	11/18/22 20:19	1
Acenaphthene	<4.21		9.56	4.21	ug/L		11/16/22 13:39	11/18/22 20:19	1
Acenaphthylene	<3.44		9.56	3.44	ug/L		11/16/22 13:39	11/18/22 20:19	1
Acetophenone	<2.10		9.56	2.10	ug/L		11/16/22 13:39	11/18/22 20:19	1
Anthracene	<3.44		9.56	3.44	ug/L		11/16/22 13:39	11/18/22 20:19	1
Atrazine	<2.10		9.56	2.10	ug/L		11/16/22 13:39	11/18/22 20:19	1

Client Sample ID: TMW-2
Date Collected: 11/09/22 14:40
Date Received: 11/12/22 17:00

Lab Sample ID: 680-225318-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<4.59		9.56	4.59	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzo[a]anthracene	<4.01		9.56	4.01	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzo[a]pyrene	<2.68		9.56	2.68	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzo[b]fluoranthene	<2.96		9.56	2.96	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzo[g,h,i]perylene	<2.87		9.56	2.87	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzo[k]fluoranthene	<2.77		9.56	2.77	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzoic acid	<12.4		47.8	12.4	ug/L		11/16/22 13:39	11/18/22 20:19	1
Benzyl alcohol	<2.49		9.56	2.49	ug/L		11/16/22 13:39	11/18/22 20:19	1
Bis(2-chloroethoxy)methane	<1.72		9.56	1.72	ug/L		11/16/22 13:39	11/18/22 20:19	1
Bis(2-chloroethyl)ether	<3.44		9.56	3.44	ug/L		11/16/22 13:39	11/18/22 20:19	1
Bis(2-ethylhexyl) phthalate	<2.87		9.56	2.87	ug/L		11/16/22 13:39	11/18/22 20:19	1
Butyl benzyl phthalate	<2.68		9.56	2.68	ug/L		11/16/22 13:39	11/18/22 20:19	1
Carbazole	<1.72		9.56	1.72	ug/L		11/16/22 13:39	11/18/22 20:19	1
Chrysene	<3.63		9.56	3.63	ug/L		11/16/22 13:39	11/18/22 20:19	1
Dibenz(a,h)anthracene	<2.87		9.56	2.87	ug/L		11/16/22 13:39	11/18/22 20:19	1
Dibenzofuran	<1.82		9.56	1.82	ug/L		11/16/22 13:39	11/18/22 20:19	1
Diethyl phthalate	<2.10		9.56	2.10	ug/L		11/16/22 13:39	11/18/22 20:19	1
Dimethyl phthalate	<2.01		9.56	2.01	ug/L		11/16/22 13:39	11/18/22 20:19	1
Di-n-butyl phthalate	<2.20		9.56	2.20	ug/L		11/16/22 13:39	11/18/22 20:19	1
Di-n-octyl phthalate	<2.68		9.56	2.68	ug/L		11/16/22 13:39	11/18/22 20:19	1
Fluoranthene	<1.53		9.56	1.53	ug/L		11/16/22 13:39	11/18/22 20:19	1
Fluorene	<3.25		9.56	3.25	ug/L		11/16/22 13:39	11/18/22 20:19	1
Hexachlorobenzene	<1.53		9.56	1.53	ug/L		11/16/22 13:39	11/18/22 20:19	1
Hexachlorobutadiene	<3.82		9.56	3.82	ug/L		11/16/22 13:39	11/18/22 20:19	1
Hexachlorocyclopentadiene	<3.35		9.56	3.35	ug/L		11/16/22 13:39	11/18/22 20:19	1
Hexachloroethane	<3.44		9.56	3.44	ug/L		11/16/22 13:39	11/18/22 20:19	1
Indeno[1,2,3-cd]pyrene	<4.11		9.56	4.11	ug/L		11/16/22 13:39	11/18/22 20:19	1
Isophorone	<1.91		9.56	1.91	ug/L		11/16/22 13:39	11/18/22 20:19	1
Naphthalene	<3.35		9.56	3.35	ug/L		11/16/22 13:39	11/18/22 20:19	1
Nitrobenzene	<3.35		9.56	3.35	ug/L		11/16/22 13:39	11/18/22 20:19	1
N-Nitrosodimethylamine	<2.01		9.56	2.01	ug/L		11/16/22 13:39	11/18/22 20:19	1
N-Nitrosodi-n-propylamine	<2.29		9.56	2.29	ug/L		11/16/22 13:39	11/18/22 20:19	1
N-Nitrosodiphenylamine	<2.77		9.56	2.77	ug/L		11/16/22 13:39	11/18/22 20:19	1
Pentachlorophenol	<9.46		47.8	9.46	ug/L		11/16/22 13:39	11/18/22 20:19	1
Phenanthrene	<4.11		9.56	4.11	ug/L		11/16/22 13:39	11/18/22 20:19	1
Phenol	<1.43		9.56	1.43	ug/L		11/16/22 13:39	11/18/22 20:19	1
Pyrene	<3.54		9.56	3.54	ug/L		11/16/22 13:39	11/18/22 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*	*11/16/22 13:39*	*11/18/22 20:19*	*1*
2-Fluorobiphenyl	*58*		*25 - 130*	*11/16/22 13:39*	*11/18/22 20:19*	*1*
2-Fluorophenol (Surr)	*28*		*10 - 130*	*11/16/22 13:39*	*11/18/22 20:19*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*11/16/22 13:39*	*11/18/22 20:19*	*1*
Phenol-d5 (Surr)	*20*		*10 - 130*	*11/16/22 13:39*	*11/18/22 20:19*	*1*
Terphenyl-d14 (Surr)	*91*		*35 - 131*	*11/16/22 13:39*	*11/18/22 20:19*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		11/14/22 06:02	11/14/22 16:50	1
Barium	**75.2**		10.0	4.40	ug/L		11/14/22 06:02	11/14/22 16:50	1

Client Sample ID: TMW-2

Lab Sample ID: 680-225318-2

Date Collected: 11/09/22 14:40

Matrix: Water

Date Received: 11/12/22 17:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 06:02	11/14/22 16:50	1
Chromium	**1.20**	**J**	10.0	1.10	ug/L		11/14/22 06:02	11/14/22 16:50	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 06:02	11/14/22 16:50	1
Lead	**9.76**	**J**	10.0	6.60	ug/L		11/14/22 06:02	11/14/22 16:50	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 06:02	11/14/22 16:50	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	<6.40		20.0	6.40	ug/L		11/15/22 06:50	11/15/22 23:05	1
Barium, Dissolved	**62.1**		10.0	4.40	ug/L		11/15/22 06:50	11/15/22 23:05	1
Cadmium, Dissolved	<0.440		5.00	0.440	ug/L		11/15/22 06:50	11/15/22 23:05	1
Chromium, Dissolved	<1.10		10.0	1.10	ug/L		11/15/22 06:50	11/15/22 23:05	1
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 23:05	1
Selenium, Dissolved	<10.0		20.0	10.0	ug/L		11/15/22 06:50	11/15/22 23:05	1
Silver, Dissolved	<1.50		10.0	1.50	ug/L		11/15/22 06:50	11/15/22 23:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/15/22 17:33	11/17/22 10:14	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.0800		0.200	0.0800	ug/L		11/15/22 17:29	11/17/22 10:27	1

Client Sample ID: Trip Blank - 1

Lab Sample ID: 680-225318-3

Date Collected: 11/09/22 00:00

Matrix: Water

Date Received: 11/12/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/16/22 18:22	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/16/22 18:22	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/16/22 18:22	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/16/22 18:22	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/16/22 18:22	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/16/22 18:22	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/16/22 18:22	1
1,2,3-Trichlorobenzene	<0.810	*+	5.00	0.810	ug/L			11/16/22 18:22	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/16/22 18:22	1
1,2,4-Trichlorobenzene	<0.530	*+	5.00	0.530	ug/L			11/16/22 18:22	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 18:22	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/16/22 18:22	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 18:22	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/16/22 18:22	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/16/22 18:22	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/16/22 18:22	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/16/22 18:22	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 18:22	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/16/22 18:22	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 18:22	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/16/22 18:22	1

Client: Terracon Consultants, Inc.
Job ID: 680-225318-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: Trip Blank - 1
Lab Sample ID: 680-225318-3
Date Collected: 11/09/22 00:00
Matrix: Water
Date Received: 11/12/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/16/22 18:22	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/16/22 18:22	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/16/22 18:22	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/16/22 18:22	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/16/22 18:22	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/16/22 18:22	1
Acetone	**11.0**		10.0	3.70	ug/L			11/16/22 18:22	1
Benzene	<0.270		1.00	0.270	ug/L			11/16/22 18:22	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/16/22 18:22	1
Bromoform	<0.590		1.00	0.590	ug/L			11/16/22 18:22	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/16/22 18:22	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/16/22 18:22	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/16/22 18:22	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/16/22 18:22	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/16/22 18:22	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/16/22 18:22	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/16/22 18:22	1
Chloroform	<0.270		1.00	0.270	ug/L			11/16/22 18:22	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/16/22 18:22	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/16/22 18:22	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/16/22 18:22	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/16/22 18:22	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/16/22 18:22	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/16/22 18:22	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/16/22 18:22	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/16/22 18:22	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/16/22 18:22	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/16/22 18:22	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/16/22 18:22	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/16/22 18:22	1
Naphthalene	<2.40	*+	5.00	2.40	ug/L			11/16/22 18:22	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/16/22 18:22	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/16/22 18:22	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/16/22 18:22	1
Styrene	<0.270		1.00	0.270	ug/L			11/16/22 18:22	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 18:22	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/16/22 18:22	1
Toluene	<0.250		1.00	0.250	ug/L			11/16/22 18:22	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/16/22 18:22	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/16/22 18:22	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/16/22 18:22	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			11/16/22 18:22	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/16/22 18:22	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/16/22 18:22	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/16/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/16/22 18:22*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/16/22 18:22*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/16/22 18:22*	*1*

Client: Terracon Consultants, Inc.
Job ID: 680-225318-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: Trip Blank - 1
Lab Sample ID: 680-225318-3
Date Collected: 11/09/22 00:00
Matrix: Water
Date Received: 11/12/22 17:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		11/16/22 18:22	1

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

Lab Sample ID: MB 680-750879/9
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			11/16/22 17:58	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			11/16/22 17:58	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			11/16/22 17:58	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			11/16/22 17:58	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			11/16/22 17:58	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			11/16/22 17:58	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			11/16/22 17:58	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			11/16/22 17:58	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			11/16/22 17:58	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			11/16/22 17:58	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 17:58	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			11/16/22 17:58	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 17:58	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			11/16/22 17:58	1
1,2-Dichloroethene, Total	<0.370		2.00	0.370	ug/L			11/16/22 17:58	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			11/16/22 17:58	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			11/16/22 17:58	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 17:58	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			11/16/22 17:58	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			11/16/22 17:58	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			11/16/22 17:58	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			11/16/22 17:58	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			11/16/22 17:58	1
2-Hexanone	<3.20		10.0	3.20	ug/L			11/16/22 17:58	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			11/16/22 17:58	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			11/16/22 17:58	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			11/16/22 17:58	1
Acetone	<3.70		10.0	3.70	ug/L			11/16/22 17:58	1
Benzene	<0.270		1.00	0.270	ug/L			11/16/22 17:58	1
Bromobenzene	<0.240		1.00	0.240	ug/L			11/16/22 17:58	1
Bromoform	<0.590		1.00	0.590	ug/L			11/16/22 17:58	1
Bromomethane	<3.70		5.00	3.70	ug/L			11/16/22 17:58	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			11/16/22 17:58	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			11/16/22 17:58	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			11/16/22 17:58	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			11/16/22 17:58	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			11/16/22 17:58	1
Chloroethane	<4.60		5.00	4.60	ug/L			11/16/22 17:58	1
Chloroform	<0.270		1.00	0.270	ug/L			11/16/22 17:58	1
Chloromethane	<0.540		1.00	0.540	ug/L			11/16/22 17:58	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			11/16/22 17:58	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			11/16/22 17:58	1
Dibromomethane	<0.340		1.00	0.340	ug/L			11/16/22 17:58	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			11/16/22 17:58	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			11/16/22 17:58	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			11/16/22 17:58	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			11/16/22 17:58	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			11/16/22 17:58	1

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

Lab Sample ID: MB 680-750879/9
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.260		1.00	0.260	ug/L			11/16/22 17:58	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			11/16/22 17:58	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			11/16/22 17:58	1
Naphthalene	<2.40		5.00	2.40	ug/L			11/16/22 17:58	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			11/16/22 17:58	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			11/16/22 17:58	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			11/16/22 17:58	1
Styrene	<0.270		1.00	0.270	ug/L			11/16/22 17:58	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			11/16/22 17:58	1
Tetrachloroethene	<0.350		0.500	0.350	ug/L			11/16/22 17:58	1
Toluene	<0.250		1.00	0.250	ug/L			11/16/22 17:58	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			11/16/22 17:58	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			11/16/22 17:58	1
Trichloroethene	<0.200		1.00	0.200	ug/L			11/16/22 17:58	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			11/16/22 17:58	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			11/16/22 17:58	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			11/16/22 17:58	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			11/16/22 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/16/22 17:58*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/16/22 17:58*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/16/22 17:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/16/22 17:58*	*1*

Lab Sample ID: LCS 680-750879/5
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	57.96		ug/L		116	70 - 130
1,1,1-Trichloroethane	50.0	58.83		ug/L		118	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.79		ug/L		94	70 - 130
1,1,2-Trichloroethane	50.0	51.11		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	51.30		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	55.36		ug/L		111	70 - 130
1,1-Dichloropropene	50.0	52.27		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	50.0	89.16	*+	ug/L		178	61 - 141
1,2,3-Trichloropropane	50.0	48.76		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	50.0	74.93	*+	ug/L		150	70 - 130
1,2,4-Trimethylbenzene	50.0	55.37		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	56.47		ug/L		113	70 - 130
1,2-Dichlorobenzene	50.0	52.61		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	54.60		ug/L		109	70 - 130
1,2-Dichloroethene, Total	100	105.3		ug/L		105	70 - 130
1,2-Dichloropropane	50.0	49.20		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	56.12		ug/L		112	70 - 130
1,3-Dichlorobenzene	50.0	51.56		ug/L		103	70 - 130

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

Lab Sample ID: LCS 680-750879/5
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	50.0	49.90		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	50.37		ug/L		101	70 - 130
2,2-Dichloropropane	50.0	58.60		ug/L		117	70 - 130
2-Butanone (MEK)	250	235.0		ug/L		94	69 - 120
2-Chlorotoluene	50.0	54.50		ug/L		109	70 - 130
2-Hexanone	250	205.8		ug/L		82	70 - 130
4-Chlorotoluene	50.0	52.76		ug/L		106	70 - 130
4-Isopropyltoluene	50.0	52.44		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	250	212.9		ug/L		85	68 - 120
Acetone	250	230.4		ug/L		92	67 - 120
Benzene	50.0	49.48		ug/L		99	70 - 130
Bromobenzene	50.0	53.16		ug/L		106	70 - 130
Bromoform	50.0	47.00		ug/L		94	69 - 129
Bromomethane	50.0	72.22		ug/L		144	28 - 192
Carbon disulfide	50.0	53.17		ug/L		106	70 - 130
Carbon tetrachloride	50.0	58.53		ug/L		117	70 - 130
Chlorobenzene	50.0	51.05		ug/L		102	70 - 130
Chlorobromomethane	50.0	51.82		ug/L		104	70 - 130
Chlorodibromomethane	50.0	50.74		ug/L		101	70 - 130
Chloroethane	50.0	80.23		ug/L		160	31 - 213
Chloroform	50.0	54.95		ug/L		110	70 - 130
Chloromethane	50.0	39.96		ug/L		80	59 - 127
cis-1,2-Dichloroethene	50.0	52.03		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	54.86		ug/L		110	70 - 130
Dibromomethane	50.0	52.80		ug/L		106	70 - 130
Dichlorobromomethane	50.0	58.34		ug/L		117	70 - 130
Dichlorodifluoromethane	50.0	47.18		ug/L		94	70 - 130
Ethylbenzene	50.0	54.00		ug/L		108	70 - 130
Ethylene Dibromide	50.0	51.37		ug/L		103	70 - 130
Hexachlorobutadiene	50.0	62.11		ug/L		124	70 - 130
Isopropylbenzene	50.0	55.20		ug/L		110	70 - 130
Methyl tert-butyl ether	50.0	52.63		ug/L		105	70 - 130
Methylene Chloride	50.0	50.36		ug/L		101	70 - 130
m-Xylene & p-Xylene	50.0	53.81		ug/L		108	70 - 130
Naphthalene	50.0	98.14	*+	ug/L		196	57 - 149
n-Butylbenzene	50.0	52.47		ug/L		105	70 - 130
N-Propylbenzene	50.0	53.76		ug/L		108	70 - 130
o-Xylene	50.0	54.74		ug/L		109	70 - 130
sec-Butylbenzene	50.0	53.31		ug/L		107	70 - 130
Styrene	50.0	54.13		ug/L		108	70 - 130
tert-Butylbenzene	50.0	54.41		ug/L		109	70 - 130
Tetrachloroethene	50.0	55.59		ug/L		111	70 - 130
Toluene	50.0	51.54		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	53.31		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	56.25		ug/L		112	70 - 130
Trichloroethene	50.0	54.31		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	73.05	*+	ug/L		146	63 - 142
Vinyl acetate	100	100.9		ug/L		101	67 - 135
Vinyl chloride	50.0	52.59		ug/L		105	66 - 129

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

Lab Sample ID: LCS 680-750879/5
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	108.6		ug/L		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 680-750879/6
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	57.70		ug/L		115	70 - 130	0	30
1,1,1-Trichloroethane			50.0	57.45		ug/L		115	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	45.36		ug/L		91	70 - 130	3	30
1,1,2-Trichloroethane			50.0	51.33		ug/L		103	70 - 130	0	30
1,1-Dichloroethane			50.0	51.09		ug/L		102	70 - 130	0	30
1,1-Dichloroethene			50.0	53.93		ug/L		108	70 - 130	3	20
1,1-Dichloropropene			50.0	51.87		ug/L		104	70 - 130	1	20
1,2,3-Trichlorobenzene			50.0	88.73	*+	ug/L		177	61 - 141	0	30
1,2,3-Trichloropropane			50.0	49.91		ug/L		100	70 - 130	2	30
1,2,4-Trichlorobenzene			50.0	71.82	*+	ug/L		144	70 - 130	4	30
1,2,4-Trimethylbenzene			50.0	53.17		ug/L		106	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			50.0	58.05		ug/L		116	70 - 130	3	30
1,2-Dichlorobenzene			50.0	52.59		ug/L		105	70 - 130	0	30
1,2-Dichloroethane			50.0	53.56		ug/L		107	70 - 130	2	50
1,2-Dichloroethene, Total			100	105.0		ug/L		105	70 - 130	0	20
1,2-Dichloropropane			50.0	48.33		ug/L		97	70 - 130	2	20
1,3,5-Trimethylbenzene			50.0	54.76		ug/L		110	70 - 130	2	30
1,3-Dichlorobenzene			50.0	51.90		ug/L		104	70 - 130	1	30
1,3-Dichloropropane			50.0	50.94		ug/L		102	70 - 130	2	20
1,4-Dichlorobenzene			50.0	51.63		ug/L		103	70 - 130	2	30
2,2-Dichloropropane			50.0	55.99		ug/L		112	70 - 130	5	20
2-Butanone (MEK)			250	246.0		ug/L		98	69 - 120	5	30
2-Chlorotoluene			50.0	53.51		ug/L		107	70 - 130	2	30
2-Hexanone			250	206.7		ug/L		83	70 - 130	0	20
4-Chlorotoluene			50.0	51.22		ug/L		102	70 - 130	3	30
4-Isopropyltoluene			50.0	51.54		ug/L		103	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			250	213.6		ug/L		85	68 - 120	0	30
Acetone			250	233.8		ug/L		94	67 - 120	1	30
Benzene			50.0	49.59		ug/L		99	70 - 130	0	30
Bromobenzene			50.0	51.89		ug/L		104	70 - 130	2	30
Bromoform			50.0	46.42		ug/L		93	69 - 129	1	30
Bromomethane			50.0	70.34		ug/L		141	28 - 192	3	30
Carbon disulfide			50.0	53.60		ug/L		107	70 - 130	1	30
Carbon tetrachloride			50.0	58.99		ug/L		118	70 - 130	1	30
Chlorobenzene			50.0	49.79		ug/L		100	70 - 130	2	30

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

Lab Sample ID: LCSD 680-750879/6
Matrix: Water
Analysis Batch: 750879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobromomethane	50.0	52.43		ug/L		105	70 - 130	1	30
Chlorodibromomethane	50.0	51.27		ug/L		103	70 - 130	1	30
Chloroethane	50.0	78.49		ug/L		157	31 - 213	2	30
Chloroform	50.0	54.27		ug/L		109	70 - 130	1	30
Chloromethane	50.0	39.93		ug/L		80	59 - 127	0	30
cis-1,2-Dichloroethene	50.0	52.17		ug/L		104	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	55.46		ug/L		111	70 - 130	1	20
Dibromomethane	50.0	51.94		ug/L		104	70 - 130	2	30
Dichlorobromomethane	50.0	58.80		ug/L		118	70 - 130	1	30
Dichlorodifluoromethane	50.0	46.12		ug/L		92	70 - 130	2	40
Ethylbenzene	50.0	53.02		ug/L		106	70 - 130	2	20
Ethylene Dibromide	50.0	51.78		ug/L		104	70 - 130	1	30
Hexachlorobutadiene	50.0	62.00		ug/L		124	70 - 130	0	20
Isopropylbenzene	50.0	54.31		ug/L		109	70 - 130	2	30
Methyl tert-butyl ether	50.0	52.55		ug/L		105	70 - 130	0	30
Methylene Chloride	50.0	50.13		ug/L		100	70 - 130	0	30
m-Xylene & p-Xylene	50.0	52.75		ug/L		106	70 - 130	2	30
Naphthalene	50.0	95.98	*+	ug/L		192	57 - 149	2	30
n-Butylbenzene	50.0	50.78		ug/L		102	70 - 130	3	30
N-Propylbenzene	50.0	53.13		ug/L		106	70 - 130	1	30
o-Xylene	50.0	53.64		ug/L		107	70 - 130	2	30
sec-Butylbenzene	50.0	52.54		ug/L		105	70 - 130	1	30
Styrene	50.0	52.92		ug/L		106	70 - 130	2	30
tert-Butylbenzene	50.0	53.36		ug/L		107	70 - 130	2	30
Tetrachloroethene	50.0	55.27		ug/L		111	70 - 130	1	30
Toluene	50.0	52.32		ug/L		105	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	52.87		ug/L		106	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	55.74		ug/L		111	70 - 130	1	30
Trichloroethene	50.0	53.66		ug/L		107	70 - 130	1	30
Trichlorofluoromethane	50.0	71.10		ug/L		142	63 - 142	3	30
Vinyl acetate	100	91.34		ug/L		91	67 - 135	10	30
Vinyl chloride	50.0	51.58		ug/L		103	66 - 129	2	30
Xylenes, Total	100	106.4		ug/L		106	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 680-750995/1-A
Matrix: Water
Analysis Batch: 751425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
1,2,4,5-Tetrachlorobenzene	<4.50		10.0	4.50	ug/L		11/16/22 13:39	11/18/22 17:04	1

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

Lab Sample ID: MB 680-750995/1-A
Matrix: Water
Analysis Batch: 751425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3.40		10.0	3.40	ug/L		11/16/22 13:39	11/18/22 17:04	1
1,2-Dichlorobenzene	<2.50		10.0	2.50	ug/L		11/16/22 13:39	11/18/22 17:04	1
1,2-Diphenylhydrazine	<3.70		10.0	3.70	ug/L		11/16/22 13:39	11/18/22 17:04	1
1,3-Dichlorobenzene	<2.90		10.0	2.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
1,3-Dinitrobenzene	<3.90		10.0	3.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
1,4-Dichlorobenzene	<3.30		10.0	3.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
1-Methylnaphthalene	<4.70		10.0	4.70	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,2'-oxybis[1-chloropropane]	<3.10		10.0	3.10	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,3,4,6-Tetrachlorophenol	<4.30		10.0	4.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		11/16/22 13:39	11/18/22 17:04	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		11/16/22 13:39	11/18/22 17:04	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		11/16/22 13:39	11/18/22 17:04	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		11/16/22 13:39	11/18/22 17:04	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		11/16/22 13:39	11/18/22 17:04	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
4-Nitroaniline	<3.00		50.0	3.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		11/16/22 13:39	11/18/22 17:04	1
Acenaphthene	<4.40		10.0	4.40	ug/L		11/16/22 13:39	11/18/22 17:04	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Acetophenone	<2.20		10.0	2.20	ug/L		11/16/22 13:39	11/18/22 17:04	1
Anthracene	<3.60		10.0	3.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Atrazine	<2.20		10.0	2.20	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzoic acid	<13.0		50.0	13.0	ug/L		11/16/22 13:39	11/18/22 17:04	1
Benzyl alcohol	<2.60		10.0	2.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		11/16/22 13:39	11/18/22 17:04	1

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

Lab Sample ID: MB 680-750995/1-A
Matrix: Water
Analysis Batch: 751425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<1.80		10.0	1.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
Chrysene	<3.80		10.0	3.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		11/16/22 13:39	11/18/22 17:04	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		11/16/22 13:39	11/18/22 17:04	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		11/16/22 13:39	11/18/22 17:04	1
Fluoranthene	<1.60		10.0	1.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Fluorene	<3.40		10.0	3.40	ug/L		11/16/22 13:39	11/18/22 17:04	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		11/16/22 13:39	11/18/22 17:04	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		11/16/22 13:39	11/18/22 17:04	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
Isophorone	<2.00		10.0	2.00	ug/L		11/16/22 13:39	11/18/22 17:04	1
Naphthalene	<3.50		10.0	3.50	ug/L		11/16/22 13:39	11/18/22 17:04	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		11/16/22 13:39	11/18/22 17:04	1
N-Nitrosodimethylamine	<2.10		10.0	2.10	ug/L		11/16/22 13:39	11/18/22 17:04	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		11/16/22 13:39	11/18/22 17:04	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		11/16/22 13:39	11/18/22 17:04	1
Phenanthrene	<4.30		10.0	4.30	ug/L		11/16/22 13:39	11/18/22 17:04	1
Phenol	<1.50		10.0	1.50	ug/L		11/16/22 13:39	11/18/22 17:04	1
Pyrene	<3.70		10.0	3.70	ug/L		11/16/22 13:39	11/18/22 17:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*30 - 130*	*11/16/22 13:39*	*11/18/22 17:04*	*1*
2-Fluorobiphenyl	*56*		*25 - 130*	*11/16/22 13:39*	*11/18/22 17:04*	*1*
2-Fluorophenol (Surr)	*26*		*10 - 130*	*11/16/22 13:39*	*11/18/22 17:04*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*11/16/22 13:39*	*11/18/22 17:04*	*1*
Phenol-d5 (Surr)	*18*		*10 - 130*	*11/16/22 13:39*	*11/18/22 17:04*	*1*
Terphenyl-d14 (Surr)	*94*		*35 - 131*	*11/16/22 13:39*	*11/18/22 17:04*	*1*

Lab Sample ID: LCS 680-750995/2-A
Matrix: Water
Analysis Batch: 751425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	200	146.2		ug/L		73	26 - 130
1,2,4,5-Tetrachlorobenzene	200	142.6		ug/L		71	21 - 130
1,2,4-Trichlorobenzene	200	127.3		ug/L		64	14 - 130
1,2-Dichlorobenzene	200	102.7		ug/L		51	13 - 130
1,2-Diphenylhydrazine	200	156.2		ug/L		78	38 - 130
1,3-Dichlorobenzene	200	93.90		ug/L		47	12 - 130
1,3-Dinitrobenzene	200	209.6		ug/L		105	36 - 130
1,4-Dichlorobenzene	200	97.24		ug/L		49	13 - 130
1-Methylnaphthalene	200	143.4		ug/L		72	20 - 130

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

Lab Sample ID: LCS 680-750995/2-A
Matrix: Water
Analysis Batch: 751425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2'-oxybis[1-chloropropane]	200	147.7		ug/L		74	33 - 130
2,3,4,6-Tetrachlorophenol	200	169.7		ug/L		85	27 - 130
2,4,5-Trichlorophenol	200	154.3		ug/L		77	26 - 130
2,4,6-Trichlorophenol	200	162.3		ug/L		81	28 - 130
2,4-Dichlorophenol	200	143.6		ug/L		72	27 - 130
2,4-Dimethylphenol	200	134.4		ug/L		67	26 - 130
2,4-Dinitrophenol	400	410.5		ug/L		103	23 - 130
2,4-Dinitrotoluene	200	202.4		ug/L		101	37 - 130
2,6-Dinitrotoluene	200	183.1		ug/L		92	35 - 130
2-Chloronaphthalene	200	147.9		ug/L		74	25 - 130
2-Chlorophenol	200	119.9		ug/L		60	24 - 130
2-Methylnaphthalene	200	146.8		ug/L		73	22 - 130
2-Methylphenol	200	112.8		ug/L		56	21 - 130
2-Nitroaniline	200	192.4		ug/L		96	36 - 130
2-Nitrophenol	200	165.9		ug/L		83	27 - 130
3 & 4 Methylphenol	200	106.5		ug/L		53	19 - 130
3,3'-Dichlorobenzidine	200	234.5		ug/L		117	35 - 130
3-Nitroaniline	200	172.4		ug/L		86	14 - 130
4,6-Dinitro-2-methylphenol	400	422.7		ug/L		106	38 - 130
4-Bromophenyl phenyl ether	200	156.8		ug/L		78	34 - 130
4-Chloro-3-methylphenol	200	164.5		ug/L		82	28 - 130
4-Chloroaniline	200	116.0		ug/L		58	10 - 130
4-Chlorophenyl phenyl ether	200	163.9		ug/L		82	31 - 130
4-Nitroaniline	200	182.3		ug/L		91	36 - 130
4-Nitrophenol	400	133.3		ug/L		33	10 - 130
Acenaphthene	200	166.8		ug/L		83	28 - 130
Acenaphthylene	200	162.5		ug/L		81	31 - 130
Acetophenone	200	145.2		ug/L		73	28 - 130
Anthracene	200	159.8		ug/L		80	36 - 130
Atrazine	200	184.3		ug/L		92	10 - 142
Benzaldehyde	200	132.2		ug/L		66	22 - 130
Benzo[a]anthracene	200	191.5		ug/L		96	34 - 130
Benzo[a]pyrene	200	169.5		ug/L		85	36 - 130
Benzo[b]fluoranthene	200	174.6		ug/L		87	35 - 130
Benzo[g,h,i]perylene	200	161.8		ug/L		81	35 - 130
Benzo[k]fluoranthene	200	160.5		ug/L		80	34 - 130
Benzoic acid	200	63.96		ug/L		32	10 - 130
Benzyl alcohol	200	128.0		ug/L		64	21 - 130
Bis(2-chloroethoxy)methane	200	150.0		ug/L		75	31 - 130
Bis(2-chloroethyl)ether	200	146.6		ug/L		73	30 - 130
Bis(2-ethylhexyl) phthalate	200	218.4		ug/L		109	33 - 138
Butyl benzyl phthalate	200	226.1		ug/L		113	35 - 135
Carbazole	200	165.2		ug/L		83	36 - 130
Chrysene	200	188.8		ug/L		94	33 - 130
Dibenz(a,h)anthracene	200	163.1		ug/L		82	35 - 130
Dibenzofuran	200	158.4		ug/L		79	31 - 130
Diethyl phthalate	200	172.1		ug/L		86	36 - 130
Dimethyl phthalate	200	168.5		ug/L		84	34 - 130
Di-n-butyl phthalate	200	179.8		ug/L		90	35 - 130

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

Lab Sample ID: LCS 680-750995/2-A
Matrix: Water
Analysis Batch: 751425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	200	236.0		ug/L		118	34 - 139
Fluoranthene	200	168.6		ug/L		84	35 - 130
Fluorene	200	160.6		ug/L		80	33 - 130
Hexachlorobenzene	200	153.0		ug/L		77	30 - 130
Hexachlorobutadiene	200	116.4		ug/L		58	12 - 130
Hexachlorocyclopentadiene	200	134.6		ug/L		67	15 - 130
Hexachloroethane	200	95.98		ug/L		48	12 - 130
Indeno[1,2,3-cd]pyrene	200	201.4		ug/L		101	34 - 130
Isophorone	200	162.1		ug/L		81	27 - 130
Naphthalene	200	121.2		ug/L		61	19 - 130
Nitrobenzene	200	142.0		ug/L		71	32 - 130
N-Nitrosodimethylamine	200	76.57		ug/L		38	15 - 130
N-Nitrosodi-n-propylamine	200	168.0		ug/L		84	33 - 130
N-Nitrosodiphenylamine	200	158.9		ug/L		79	35 - 130
Pentachlorophenol	400	298.1		ug/L		75	24 - 130
Phenanthrene	200	155.7		ug/L		78	36 - 130
Phenol	200	68.45		ug/L		34	10 - 130
Pyrene	200	196.4		ug/L		98	33 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*30 - 130*
2-Fluorobiphenyl	*70*		*25 - 130*
2-Fluorophenol (Surr)	*34*		*10 - 130*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*
Phenol-d5 (Surr)	*26*		*10 - 130*
Terphenyl-d14 (Surr)	*98*		*35 - 131*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-750393/1-A
Matrix: Water
Analysis Batch: 750635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 750393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		11/14/22 06:02	11/14/22 16:26	1
Barium	<4.40		10.0	4.40	ug/L		11/14/22 06:02	11/14/22 16:26	1
Cadmium	<0.440		5.00	0.440	ug/L		11/14/22 06:02	11/14/22 16:26	1
Chromium	<1.10		10.0	1.10	ug/L		11/14/22 06:02	11/14/22 16:26	1
Lead	<6.60		10.0	6.60	ug/L		11/14/22 06:02	11/14/22 16:26	1
Selenium	<10.0		20.0	10.0	ug/L		11/14/22 06:02	11/14/22 16:26	1
Silver	<1.50		10.0	1.50	ug/L		11/14/22 06:02	11/14/22 16:26	1

Lab Sample ID: LCS 680-750393/2-A
Matrix: Water
Analysis Batch: 750635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 750393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	98.28		ug/L		98	80 - 120
Barium	100	102.6		ug/L		103	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-750393/2-A
Matrix: Water
Analysis Batch: 750635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 750393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	50.0	48.87		ug/L		98	80 - 120
Chromium	100	101.8		ug/L		102	80 - 120
Lead	505	496.3		ug/L		98	80 - 120
Selenium	100	97.61		ug/L		97	80 - 120
Silver	50.0	48.29		ug/L		97	80 - 120

Lab Sample ID: MB 680-750629/1-B
Matrix: Water
Analysis Batch: 750846

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 750733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	<6.40		20.0	6.40	ug/L		11/15/22 06:50	11/15/22 22:29	1
Barium, Dissolved	<4.40		10.0	4.40	ug/L		11/15/22 06:50	11/15/22 22:29	1
Cadmium, Dissolved	<0.440		5.00	0.440	ug/L		11/15/22 06:50	11/15/22 22:29	1
Chromium, Dissolved	<1.10		10.0	1.10	ug/L		11/15/22 06:50	11/15/22 22:29	1
Lead, Dissolved	<6.60		10.0	6.60	ug/L		11/15/22 06:50	11/15/22 22:29	1
Selenium, Dissolved	<10.0		20.0	10.0	ug/L		11/15/22 06:50	11/15/22 22:29	1
Silver, Dissolved	<1.50		10.0	1.50	ug/L		11/15/22 06:50	11/15/22 22:29	1

Lab Sample ID: LCS 680-750629/2-B
Matrix: Water
Analysis Batch: 750846

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 750733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	100	89.58		ug/L		90	80 - 120
Barium, Dissolved	100	90.50		ug/L		91	80 - 120
Cadmium, Dissolved	50.0	44.49		ug/L		89	80 - 120
Chromium, Dissolved	100	91.32		ug/L		91	80 - 120
Lead, Dissolved	505	447.4		ug/L		89	80 - 120
Selenium, Dissolved	100	87.04		ug/L		87	80 - 120
Silver, Dissolved	50.0	44.14		ug/L		88	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-750800/1-A
Matrix: Water
Analysis Batch: 751194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		11/15/22 16:44	11/17/22 09:33	1

Lab Sample ID: LCS 680-750800/2-A
Matrix: Water
Analysis Batch: 751194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.478		ug/L		99	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 680-750812/1-B
Matrix: Water
Analysis Batch: 751194

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 750813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.0800		0.200	0.0800	ug/L		11/15/22 17:29	11/17/22 10:17	1

Lab Sample ID: LCS 680-750812/2-B
Matrix: Water
Analysis Batch: 751194

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 750813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	2.50	2.490		ug/L		100	80 - 120

Lab Sample ID: 680-225318-2 MS
Matrix: Water
Analysis Batch: 751194

Client Sample ID: TMW-2
Prep Type: Dissolved
Prep Batch: 750813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	<0.0800		1.00	0.8614		ug/L		86	80 - 120

Lab Sample ID: 680-225318-2 MSD
Matrix: Water
Analysis Batch: 751194

Client Sample ID: TMW-2
Prep Type: Dissolved
Prep Batch: 750813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury, Dissolved	<0.0800		1.00	0.8623		ug/L		86	80 - 120	0	20

GC/MS VOA

Analysis Batch: 750879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total/NA	Water	8260D	
680-225318-2	TMW-2	Total/NA	Water	8260D	
680-225318-3	Trip Blank - 1	Total/NA	Water	8260D	
MB 680-750879/9	Method Blank	Total/NA	Water	8260D	
LCS 680-750879/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-750879/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 750995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total/NA	Water	3510C	
680-225318-2	TMW-2	Total/NA	Water	3510C	
MB 680-750995/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-750995/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 751425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total/NA	Water	8270E	750995
680-225318-2	TMW-2	Total/NA	Water	8270E	750995
MB 680-750995/1-A	Method Blank	Total/NA	Water	8270E	750995
LCS 680-750995/2-A	Lab Control Sample	Total/NA	Water	8270E	750995

Metals

Prep Batch: 750393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total Recoverable	Water	3005A	
680-225318-2	TMW-2	Total Recoverable	Water	3005A	
MB 680-750393/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-750393/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Filtration Batch: 750629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Dissolved	Water	FILTRATION	
680-225318-2	TMW-2	Dissolved	Water	FILTRATION	
MB 680-750629/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-750629/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Analysis Batch: 750635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total Recoverable	Water	6010D	750393
680-225318-2	TMW-2	Total Recoverable	Water	6010D	750393
MB 680-750393/1-A	Method Blank	Total Recoverable	Water	6010D	750393
LCS 680-750393/2-A	Lab Control Sample	Total Recoverable	Water	6010D	750393

Prep Batch: 750733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Dissolved	Water	3005A	750629
680-225318-2	TMW-2	Dissolved	Water	3005A	750629
MB 680-750629/1-B	Method Blank	Dissolved	Water	3005A	750629
LCS 680-750629/2-B	Lab Control Sample	Dissolved	Water	3005A	750629

Metals

Prep Batch: 750800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total/NA	Water	7470A	
680-225318-2	TMW-2	Total/NA	Water	7470A	
MB 680-750800/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-750800/2-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 750812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-2	TMW-2	Dissolved	Water	FILTRATION	
MB 680-750812/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-750812/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
680-225318-2 MS	TMW-2	Dissolved	Water	FILTRATION	
680-225318-2 MSD	TMW-2	Dissolved	Water	FILTRATION	

Prep Batch: 750813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-2	TMW-2	Dissolved	Water	7470A	750812
MB 680-750812/1-B	Method Blank	Dissolved	Water	7470A	750812
LCS 680-750812/2-B	Lab Control Sample	Dissolved	Water	7470A	750812
680-225318-2 MS	TMW-2	Dissolved	Water	7470A	750812
680-225318-2 MSD	TMW-2	Dissolved	Water	7470A	750812

Analysis Batch: 750846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Dissolved	Water	6010D	750733
680-225318-2	TMW-2	Dissolved	Water	6010D	750733
MB 680-750629/1-B	Method Blank	Dissolved	Water	6010D	750733
LCS 680-750629/2-B	Lab Control Sample	Dissolved	Water	6010D	750733

Analysis Batch: 751194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-225318-1	TMW-1	Total/NA	Water	7470A	750800
680-225318-2	TMW-2	Dissolved	Water	7470A	750813
680-225318-2	TMW-2	Total/NA	Water	7470A	750800
MB 680-750800/1-A	Method Blank	Total/NA	Water	7470A	750800
MB 680-750812/1-B	Method Blank	Dissolved	Water	7470A	750813
LCS 680-750800/2-A	Lab Control Sample	Total/NA	Water	7470A	750800
LCS 680-750812/2-B	Lab Control Sample	Dissolved	Water	7470A	750813
680-225318-2 MS	TMW-2	Dissolved	Water	7470A	750813
680-225318-2 MSD	TMW-2	Dissolved	Water	7470A	750813

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-225318-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: TMW-1
Lab Sample ID: 680-225318-1
Date Collected: 11/09/22 13:50
Matrix: Water
Date Received: 11/12/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	750879	11/16/22 21:59	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3510C			543.5 mL	1 mL	750995	11/16/22 13:39	LA	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	751425	11/18/22 19:55	T1C	EET SAV
	Instrument ID: CMSN									
Dissolved	Filtration	FILTRATION			50 mL	50 mL	750629	11/15/22 06:50	RR	EET SAV
Dissolved	Prep	3005A			50 mL	50 mL	750733	11/15/22 06:50	RR	EET SAV
Dissolved	Analysis	6010D		1			750846	11/15/22 23:02	BJB	EET SAV
	Instrument ID: ICPH									
Total Recoverable	Prep	3005A			50 mL	50 mL	750393	11/14/22 06:02	RR	EET SAV
Total Recoverable	Analysis	6010D		1			750635	11/14/22 16:41	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	750800	11/15/22 17:09	JKL	EET SAV
Total/NA	Analysis	7470A		1			751194	11/17/22 10:11	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: TMW-2
Lab Sample ID: 680-225318-2
Date Collected: 11/09/22 14:40
Matrix: Water
Date Received: 11/12/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	750879	11/16/22 21:11	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3510C			523.1 mL	1 mL	750995	11/16/22 13:39	LA	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	751425	11/18/22 20:19	T1C	EET SAV
	Instrument ID: CMSN									
Dissolved	Filtration	FILTRATION			50 mL	50 mL	750629	11/15/22 06:50	RR	EET SAV
Dissolved	Prep	3005A			50 mL	50 mL	750733	11/15/22 06:50	RR	EET SAV
Dissolved	Analysis	6010D		1			750846	11/15/22 23:05	BJB	EET SAV
	Instrument ID: ICPH									
Total Recoverable	Prep	3005A			50 mL	50 mL	750393	11/14/22 06:02	RR	EET SAV
Total Recoverable	Analysis	6010D		1			750635	11/14/22 16:50	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Filtration	FILTRATION			50 mL	50 mL	750812	11/15/22 17:27	JKL	EET SAV
Dissolved	Prep	7470A			50 mL	50 mL	750813	11/15/22 17:29	JKL	EET SAV
Dissolved	Analysis	7470A		1			751194	11/17/22 10:27	JKL	EET SAV
	Instrument ID: QuickTrace2									
Total/NA	Prep	7470A			50 mL	50 mL	750800	11/15/22 17:33	JKL	EET SAV
Total/NA	Analysis	7470A		1			751194	11/17/22 10:14	JKL	EET SAV
	Instrument ID: QuickTrace2									

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-225318-1
Project/Site: Public Works Laydown Yard LSI

Client Sample ID: Trip Blank - 1
Lab Sample ID: 680-225318-3
Date Collected: 11/09/22 00:00
Matrix: Water
Date Received: 11/12/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	750879	11/16/22 18:22	Y1S	EET SAV
	Instrument ID: CMSO2									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Terracon Consultants, Inc. Job ID: 680-225318-1
Project/Site: Public Works Laydown Yard LSI

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Public Works Laydown Yard LSI

Job ID: 680-225318-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV

Protocol References:

None = None

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Patrick Homan	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-139390-50841 1
Client Contact: Patrick Homan	Phone: 843-277-8448	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: SC	Page: Page 1 of 1
Company: Terracon Consultants, Inc.	PWSID:			Job #:

Address: 1800 Reynolds Ave.	Due Date Requested:	Analysis Requested	Preservation Codes:
City: North Charleston	TAT Requested (days): Standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: SC 29405	Compliance Project: Δ Yes Δ No		
Phone: 843-277-8448	Lab Project #: 68026506		Other:
Email: Patnck.Homan@terracon.com	PO #: EN227366		
Project Name: Public Works Laydown Yard LSI	Project #: EN227366		
Site:	WO#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Dissolved Lead (Lab Filtered)	6010D - RCRA Metals - No Mercury	8270E - SVOCs	8260D - VOCs	6010D - Dissolved Metals including Dissolved Lead (Lab Filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	A			24+1 ATLANTA
TMW-1	11-9-22	1350		Water			X	X	X	X			
TMW-2	11-9-22	1440		Water				X	X	X	X		Analyze TMW-2 for Dissolved metals including Dissolved Lead (Lab Filtered)
~~MW-11~~				Water									
~~MW-12~~				Water									
~~MW-13~~				Water									
				Water									
Trip Blank - 1				Water						X			
~~Trip Blank - 2~~				Water									
Temp Blank													

680-225318 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samp
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11-10-22 1120		Barbara DiCola	11-11-22 14:25	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				11-11-22 1700	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: 5.0/5.0 5.1/5.1

Ver 01/16/2019

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-225318-1

Login Number: 225318

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Appendix B Site-Specific Health and Safety Plan