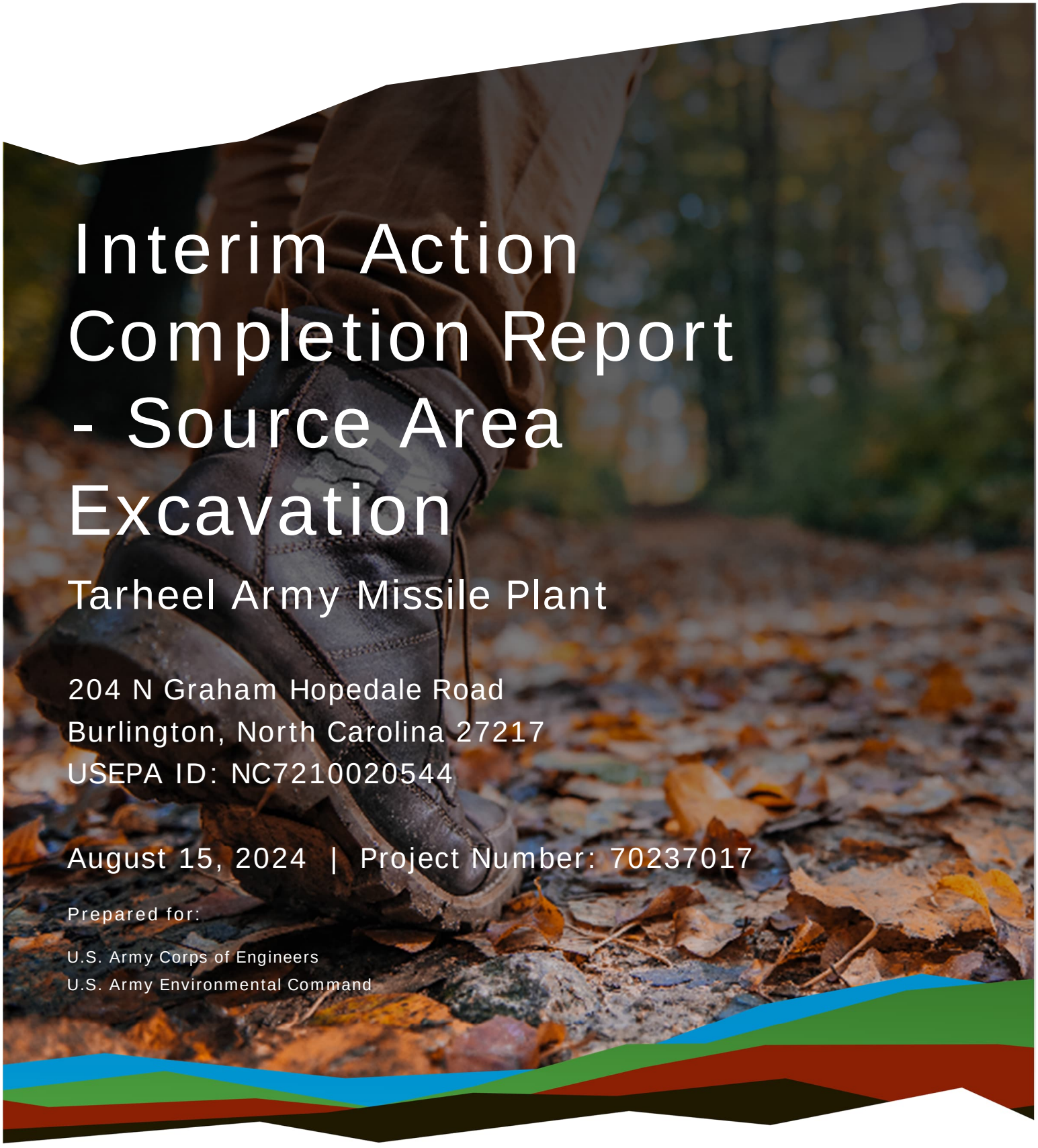


Interim Action Completion Report - Source Area Excavation

Tarheel Army Missile Plant

204 N Graham Hopedale Road
Burlington, North Carolina 27217
USEPA ID: NC7210020544

August 15, 2024 | Project Number: 70237017

Prepared for:

U.S. Army Corps of Engineers
U.S. Army Environmental Command

NORTHWIND JACOBS JV

Terracon

Nationwide
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- Facilities
- Environmental
- Geotechnical
- Materials

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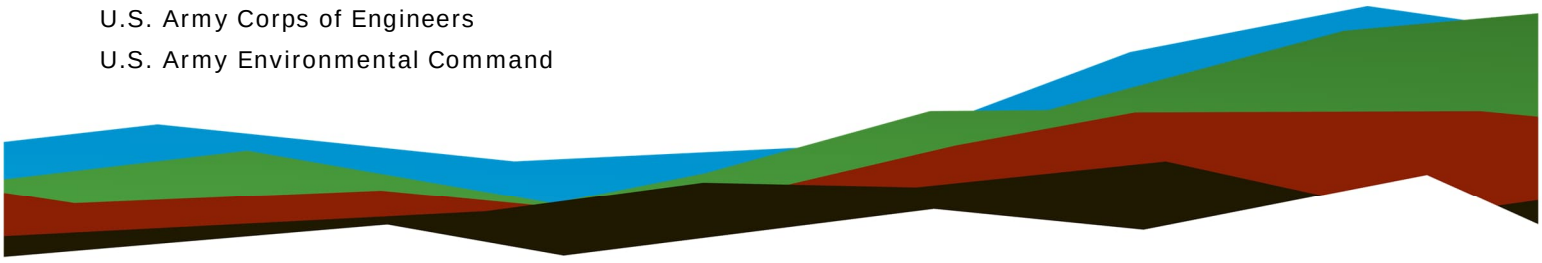
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Senior Engineering Consultant

Terracon Consultants, Inc. is licensed to practice geology and engineering in North Carolina. The certification numbers of the corporation are C-367 and F-0869, respectively.

Prepared for:

U.S. Army Corps of Engineers
U.S. Army Environmental Command



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August 15, 2024

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Attn: Dena Thompson
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E dena.b.thompson@usace.army.mil

RE: Interim Action Completion Report – Source Area Excavation
Former Tarheel Missile Plant
204 N Graham Hopedale Road
Burlington, North Carolina 27217
USEPA ID: NC7210020544
Terracon Project No. 70237017

Dear Ms. Thompson:

Northwind-Jacobs Joint Venture and Terracon Consultants, Inc. (Terracon) appreciate the opportunity to submit this *Interim Action Completion Report – Source Area Excavation* to the U.S. Army Corps of Engineers – Savannah District for the above-referenced site. This report details the findings, conclusions, and recommendations from the source area excavation activities conducted between February and May 2024. Please let us know if you have any questions or comments.

Sincerely,
Terracon

DRAFT
Ethan C. Dinwiddie, P.G.
Project Geologist

DRAFT
Donald R. Malone, P.E., RSM
Senior Engineering Consultant

Attachments: *Interim Action Completion Report – Source Area Excavation*

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1.0 Introduction

Northwind-Jacobs Joint Venture (Northwind) and Terracon Consultants, Inc. (Terracon) prepared this *Interim Action Completion Report* to summarize the field activities, results, and findings of field activities that occurred from February to May 2024 at the Tarheel Army Missile Plant (TAMP) in Burlington, North Carolina (Figure 1). The interim actions included the excavation of soil in the primary source areas that contained high concentrations of trichloroethene (TCE) and tetrachloroethene (PCE) in the vicinity of the Waste Oil Transfer Area (WOTA) and the adjacent Waste Accumulation Pad (WAP). Terracon also installed six new monitoring wells within and downgradient of the former WOTA and WAP. This work was authorized by Subcontract No. W912HN23F1012-001 between Northwind Engineering, LLC (Northwind) and Terracon dated July 12, 2023, under the Prime Contract No. W912HN21F1006 with the U. S. Army Corps of Engineers (USACE) – Savannah District Office.

1.1 Purpose of Work

The TAMP site (U.S. Environmental Protection Agency [USEPA] ID: NC7210020544), located at 204 North Graham-Hopedale Road, Burlington, North Carolina, was formerly owned and operated by the U.S. Army for the production of aircraft, missiles, and electronics. Figure 1 shows the site location. Former operations and leaking underground storage tanks on the site have released chemicals to soil and groundwater. Northwind and Terracon completed a Remedial Investigation (RI) Report dated May 22, 2023 that identified several constituents of concern (COCs). The former WOTA and WAP were identified as primary sources of chlorinated solvent releases (Northwind and Terracon, 2023). The Site Diagram in Figure 2 shows the layout of the facility. Figure 3 shows the results of soil samples collected during the RI in the vicinity of the WOTA and the WAP, defines the previous extents of COC impacts to soil, and presents the proposed excavation area in the vicinity of the WOTA (Northwind and Terracon, 2023).

In response to the RI Report, the USACE submitted a Request for Task Order Proposal and Performance Work Statement dated April 27, 2023, to implement interim remedial actions with the goal of limiting the migration of contamination and controlling potential impacts to receptors. A Conceptual Site Model (CSM) was detailed in the Uniform Federal Policy for Quality Assurance Project Plan (UFP-QAPP) Work Plan dated January 8, 2024 that provided the framework for additional environmental investigations at the former TAMP facility. Additional background information, specific COCs, exposure pathways, conclusions, and recommendations are in the CSM worksheets in the RI Report (Northwind and Terracon, 2023) and the UFP-QAPP Work Plan (Northwind and Terracon, 2024).

Terracon excavated soil beneath the former WOTA and the WAP areas to remove high concentrations of COCs in the vadose zone and to reduce the leaching of COCs into groundwater. Terracon also constructed six monitoring wells within and downgradient of the former WOTA and WAP areas to establish a monitoring network for this area of the site. Long-term monitoring of these wells will assess the effectiveness of the excavation activities in reducing future impacts to the shallow aquifer system comprised of saprolite and bedrock lithologic zones.

1.2 Report Organization

This report includes five sections including this introduction. Section 2 includes the materials and methods used to conduct the interim actions. Section 3 includes a discussion of the analytical results from samples, and other findings while performing the interim actions. Section 4 includes a summary of the conclusions and recommendations from this work. Section 5 contains the literature references used during the development of this report.

2.0 Materials and Methods for Interim Action Activities

The purpose of this section is to summarize the materials and methods used to conduct the interim actions in the vicinity of the WOTA and the WAP. SR&R Environmental, Inc (SR&R) of Wilmington, North Carolina was subcontracted for the excavation, excavation backfilling, and soil disposal. The following is a timeline for the activities occurred from February to May 2024.

- Pre-Excavation Preparation (Beginning February 15)
  - Contacted 811 to identify public utilities prior to any excavation
  - Utilized an electromagnetic pipe and cable locator system and a ground-penetrating radar (GPR) system to aid in determining location and type of utilities within the work areas
  - Collected a water sample from a sanitary sewer manhole adjacent to the excavation area
  - Conducted an investigation of the sanitary sewer pipe using a down-hole camera to identify potential interferences with the excavation
  - Abandoned monitoring well MW-120 and repaired monitoring well MW-136
- Week 1 (Beginning February 19):
  - Mobilized an excavation contractor to the site
  - Demolished and excavated debris from the WAP
  - Collected exploratory soil samples from the WAP for analysis of volatile organic compounds (VOCs) to determine the need for excavation of soils beneath this area
  - Removed concrete from the WOTA and demolished a stormwater manway
  - Excavated hazardous and non-hazardous soil from the WOTA and loaded the soil and other debris into 12 roll-off containers
- Week 2 (Beginning February 26):
  - Excavated soil from the WOTA and loaded the soil and debris into 6 roll-off containers
  - Backfilled the base of the WOTA excavation to improve sidewall stability
- Week 3 (Beginning March 4):
  - Excavated soil from WOTA and WAP and loaded the soil and debris into 11 roll-off containers

- Week 4 (Beginning March 11):
  - Excavated soil from the WAP and load the soil into 4 roll-off containers
  - Finished backfilling the WOTA and WAP excavations
  - Demobilized the excavation contractor from the site
- From March 11 to 19:
  - Installed six monitoring wells within and adjacent to the chlorinated VOC source areas to evaluate the effectiveness of the soil excavation activities from the source areas
- April 2024:
  - Collected samples from the new shallow source area monitoring wells MW-143 through MW-146
  - Completed well development of the new deep source area monitoring wells MW-147 and MW-148
  - Oversaw off-site removal of the four roll-offs containing soil classified as a hazardous waste
- May 2024:
  - Collected samples from the new deep source area monitoring wells MW-147 and MW-148
  - Oversaw cleaning of a frac tank and removal of characteristically hazardous sludge off the site that was generated during cleaning of the frac tank
  - Oversaw Borum, Wade, and Associates, P.A. (Borum & Wade) during an elevation survey of monitoring wells MW-136 and MW-143 through MW-148

These and other activities were completed in accordance with the Scope of Work and Standard Operating Procedures (SOPs) described in the UFP-QAPP Work Plan dated January 8, 2024 (Northwind JV and Terracon, 2024). The interim action activities are discussed in more detail in the following subsections.

2.1 Utility Locate and Excavation Preparation

At least 72 hours prior to excavation, Terracon notified NC 811 and public utility providers of the proposed excavation activities. On February 15, a Terracon geophysicist completed a GPR survey and electromagnetic wand scan of the proposed excavation area to identify and mark potential subsurface utilities. The proposed excavation areas were marked in white spray paint to assist the public utility locators.

Terracon and SR&R identified an approximate 12-inch diameter sanitary sewer pipe beneath the loading dock running east to west and approximately parallel to the length of the building. Water was flowing in the pipe at a slow rate toward the west. The pipe was considered to be inactive but was possibly receiving passive flow from groundwater infiltration into the sewer. On February 15, Terracon collected a sample from the sanitary sewer manhole to evaluate VOC concentrations in the water. The sample was collected using a peristaltic pump and disposable polyethylene tubing to transfer water directly into laboratory-supplied glassware. After sample collection, Terracon labeled the containers, and stored them in an ice-packed cooler. The samples, along with chain-of-custody documentation, were delivered to Eurofins Environment Testing in Savannah, Georgia for analysis of VOCs via USEPA Method 8260D.

Terracon initiated an inspection of the sanitary sewer pipe on February 16, 2024, using a down-hole camera, to determine if the sewer or feeder pipes would be encountered during the excavation. SR&R was subcontracted to perform the inspection using a remote-controlled robotic camera. The camera inspection confirmed that the 12-inch sanitary sewer pipe ran beneath the entire length of the loading dock. Other potential feeder pipes were not identified in the vicinity of the proposed excavation areas. The location of the sanitary sewer pipe is in Figure 4. The approximate depth of the sewer pipe was 12 feet below land surface (bls); and therefore, it might be encountered during future excavations beneath the loading dock.

2.2 Monitoring Well Abandonment and Repairs

Monitoring well MW-120 was located within the proposed WOTA excavation area, and needed to be removed prior to performing the earth work. Therefore, a North Carolina Certified Well Contractor with SR&R abandoned monitoring well MW-120 on February 16 prior to performing the excavation work. The well abandonment activities were performed in accordance with the requirements of the North Carolina Department of Environmental Quality (NCDEQ) in Title 15A of the North Carolina Administrative Code (NCAC) 02C Well Construction Standards. The Well Abandonment Record (NCDEQ Form GW-30) is in Appendix A. In addition, the polyvinyl chloride (PVC) casing for monitoring well MW-136 was unprotected. It extended above the land surface and was at risk of damage during the excavation activities. Therefore, Terracon requested SR&R to cut off the stick-up PVC casing for monitoring well MW-136 below the ground surface and install a flush-mount well cover with a concrete pad. SR&R completed this work on February 16, 2024.

2.3 Waste Accumulation Pad Removal and Exploratory Sampling

On February 19 and 20, 2024, SR&R removed concrete rubble from the WAP and discovered three subgrade concrete vaults (i.e., sumps) that were part of the below ground structure of the WAP. Terracon identified these vaults as Sump 1, Sump 2, and Sump 3 (from east to

west) and then encountered perched water in the concrete vaults after the rubble was removed. Therefore, SR&R was instructed to order the delivery of a 21,000-gallon frac tank to the site. This equipment arrived on February 20, 2024 and the water was pumped from the WAP into the frac tank for temporary containment. SR&R continued to demolish the concrete vaults using an excavator-mounted hydraulic hammer, and subsequently removed the concrete rubble from the excavation. Concrete debris from the WAP was exported off the site to Key Landfill (a land clearing and inert debris landfill) in Burlington, North Carolina.

Following removal of the demolition debris and water within the excavation, Terracon collected two soil samples beneath each of the three sumps, one from approximately 6 feet bls and one from approximately 8 feet bls. The soil samples were collected using a freshly decontaminated hand auger, placed into a sealable disposable plastic bag, and screened with a photoionization detector (PID) and AQR Color-Tec®. The AQR Color-Tec® system is a field screening test kit used to measure dissolved chlorinated compounds in water (AQRColortech, 2024). Aliquots from each primary sample were placed in laboratory-supplied glassware, labeled, and stored in an ice-packed cooler. The samples, along with chain-of-custody documentation, were delivered to Eurofins in Savannah, Georgia for analysis of VOCs via USEPA Method 8260D.

2.4 Excavation of Soil in the Waste Oil Transfer Area

On February 20 and 21, 2024, SR&R removed an initial surficial layer of concrete from the ground surface in the vicinity of the WOTA. The concrete and rebar was initially stockpiled on the site and then exported off the site to Key Landfill (a land clearing and inert debris landfill) in Burlington, North Carolina. Gravel and soil were then removed from the subgrade to a depth of approximately 2 feet bls and loaded into lined watertight roll-off containers. A stormwater manway was discovered at approximately 3 feet north of the loading dock during removal of the subgrade gravel. The location and orientation of the stormwater manway is in the excavation cross-section diagrams in Appendix B. The stormwater manway was connected to a 24-inch diameter concrete pipe that ran east to west at an approximate orientation parallel to the loading dock. The manway appeared to be fed by one upgradient grate inlet located approximately 60 feet to the east and an approximate 8-inch drainpipe from the building that appeared to be fed by roof downspouts. Based on odor, PID readings, and AQR Color-Tec® readings, there appeared to be high concentrations of chlorinated solvents in sludge and soil at the base of the stormwater manway. Therefore, Terracon concluded the stormwater manway was a possible high-concentration source of TCE in the WOTA.

Upon discovery of the stormwater manway in the WOTA, Terracon contacted officials from the City of Burlington Stormwater Division to coordinate removal requirements for the sewer. Personnel with the City of Burlington Stormwater Division inspected the stormwater

pipe on February 21, 2024 and reported that removal of the manway was approved and that the upgradient portion of the pipe should be plugged with flowable fill.

On February 22, 2024, SR&R continued to remove other stormwater piping associated with the former manhole. Terracon used the readings from periodic screening with the PID and AQR Color-Tec® test kits to guide the excavation activities, and segregate suspected non-hazardous soil from suspected hazardous soil. The stormwater manway was demolished on February 23, 2024 and loaded into lined, watertight roll-off containers along with soil suspected to be characteristically hazardous due to its location surrounding and beneath the stormwater manway. The 24-inch concrete stormwater pipe within the excavation area was also demolished during excavation and loaded into lined watertight roll-off containers. After removal of the stormwater manway, SR&R continued with the excavation of soil from the WOTA until March 5, 2024.

The overall dimensions of the excavation were approximately 38-feet long, 25-feet wide, and up to 14-feet deep. The estimated volume of excavated soil was approximately 300 cubic yards (in-place) based on the dimensions of the excavation. The excavation edge along the loading dock was setback with an approximate 2-foot offset and an approximate 1:1 slope as a precautionary measure to avoid destabilizing the building foundation. The 12-inch diameter sanitary sewer pipe and feeder pipes discussed in Section 2.1 were not encountered during the excavation due to the slope of the excavation away from the building. A cross-section diagram of the WOTA excavation is in Appendix B. A total of 24 lined watertight roll-off containers were generated during the excavation of soil in the vicinity of the WOTA, including debris from demolishing the stormwater manway.

Terracon collected confirmation soil samples from the base and sidewalls of the WOTA excavation after reaching its terminal extents. Ten excavation sidewall samples were collected at an approximate depth of 4 feet bls. Nine excavation sidewall samples were collected at an approximate depth of 8 feet bls. Six samples were collected from the base of the excavation at an approximate depth of 14 feet bls. Terracon collected these samples to evaluate whether COC concentrations in soil remaining in the excavation were below applicable remedial goals, including NCDEQ Preliminary Soil Remediation Goals (PSRGs) for the protection of groundwater, residential exposure, and for industrial/commercial exposure. These data will be used in a future Feasibility Study to assess whether future remedial actions will be needed in this area to address COC concentrations in soil.

The base of the WOTA excavation was backfilled with #57 stone from approximately 6 to 14 feet bls, which was overlain with a 4-ounce non-woven geotextile. Processed fill was placed and compacted to 95% in approximate 10 to 12-inch lifts to within 1 feet bls. Aggregate base course (ABC) grade stone was placed and compacted to 95% from approximately 1-foot bls to the surface. The backfill materials originated from the Martin Marietta East Alamance Quarry in Burlington, North Carolina.

2.5 Excavation of Soil in the Waste Accumulation Pad

Terracon and SR&R excavated the WAP between March 8 and 11, 2024. The dimensions of the excavation were approximately 18-feet long, 18-feet wide, and up to 12-feet deep. The estimated volume of excavated soil was approximately 100 cubic yards (in-place) based on the dimensions of the excavation. A cross-section diagram of the WAP excavation is in Appendix B. A total of nine lined watertight roll-off containers were generated from soil excavated from the WOTA.

Following the initial excavation activities, Terracon collected confirmation soil samples from the WAP excavation extents. Six excavation sidewall samples were collected at an approximate depth of 4 feet bls. Six excavation sidewall samples were collected at an approximate depth of 8 feet bls. Two samples were collected from the base of the excavation at an approximate depth of 12 feet bls. Similar to the WOTA, Terracon collected these samples to evaluate whether COC concentrations in soil that remained in the excavations were below applicable remedial goal options and whether the future Feasibility Study will need to address residual soils remaining beneath the former WAP.

SR&R backfilled the WAP excavation with processed fill that was placed and compacted to 95% in approximate 10 to 12-inch lifts from the base of the excavation to within 1 foot bls. ABC grade stone was placed in the excavation to match the surrounding grade, while compacting to 95%. The backfill material originated from the Martin Marietta East Alamance Quarry in Burlington, North Carolina.

2.6 Field Screening of Soil

Terracon screened the excavated soil with a PID and a AQR Color-Tec® test kit to guide the excavation activities and during loading into roll-off containers to attempt to segregate the soil (i.e., suspected non-hazardous versus suspected hazardous).

2.7 Soil Sample Collection Methodologies

2.7.1 Collection of Confirmation Soil Samples from the Excavation

Terracon collected most of the confirmation soil samples from the excavations using the excavator bucket, to avoid health and safety concerns associated with the instability of excavations. A freshly decontaminated hand auger and/or shovel were used to collect shallow sidewall samples, when possible. Terracon attempted to collect in-situ soil samples (as opposed to sloughed and “fluffed” soil) using both pieces of equipment to more accurately evaluate residual contamination. The excavation confirmation soil samples were screened for VOCs with a PID and chlorinated VOCs with a AQR Color-Tec® to evaluate the relative level of contamination.

The samples were placed in laboratory-supplied glassware, labeled, and stored in an ice-packed cooler. The samples, along with chain-of-custody documentation, were delivered to Eurofins in Savannah, Georgia for analysis of VOCs via USEPA Method 8260D and semi-volatile organic compounds (SVOCs) via USEPA Method 8270E.

2.7.2 Collection of Soil Samples from the Roll-Off Containers and Waste Characterization Process

Terracon collected waste characterization samples from the roll-off containers using a freshly-decontaminated hand auger. In accordance with the NCDEQ "Contained-in" Policy (NCDEQ, 2016), two grab samples were collected at random locations and depths from each container for VOC analyses. One composite sample was collected for SVOC analysis from each roll-off container. Terracon collected the composite sample by collecting grab samples from two random locations at two depths within each roll-off container. The aliquots were placed in disposable and resealable plastic bags, and then homogenized for approximately 60 seconds prior to placing into laboratory-provided sample containers. Terracon labeled and stored the samples in an ice-packed cooler. The samples, along with chain-of-custody documentation, were delivered to Eurofins in Savannah, Georgia for analysis of Toxicity Characteristic Leaching Procedure (TCLP) VOCs via USEPA Method 8260D and TCLP SVOCs via USEPA Method 8270E.

2.7.3 Collection of Waste Characterization Samples from the Frac Tank

Liquid temporarily stored in the frac tank included the following:

- Groundwater and stormwater that entered the excavations, including the perched water in the sumps of the WAP
- Decontamination water from equipment and other on-site operations
- Groundwater from development and purging of the six source area monitoring wells

Terracon collected a grab sample of the liquid in the frac tank on March 21, 2024 using a disposable polyethylene bailer. A grab sample of the sludge in the tank was collected on April 10, 2024 using a decontaminated steel shovel. The characterization samples were placed in laboratory-supplied glassware, labeled, and stored in an ice-packed cooler. The samples, along with chain-of-custody documentation, were delivered to Eurofins in Savannah, Georgia for analysis of VOCs via USEPA Method 8260D. The sludge sample was also submitted for analysis of TCLP VOCs via USEPA Method 8260D.

2.8 Decontamination Methods

The following subsections describe the methods used to decontaminate heavy equipment, tools, and sampling equipment.

2.8.1 Decontamination of Tools and Sampling Equipment

Site personnel decontaminated the sampling equipment (e.g., shovels, hand augers, bowls, and scoops) using a wash solution consisting of Liquinox soap and distilled water. Initially, the equipment was rinsed with distilled water to remove most of the soil particles and debris. Hand brushes were then used to scrub the equipment with the Liquinox-soap solution, and then rinsed with distilled water. All the decontamination activities were performed in plastic buckets. The decontamination liquids were temporarily stored in the on-site frac tank, until off-site disposal could be arranged through a licensed waste hauler and disposal company.

2.8.2 Decontamination of Frac Tank

Terracon subcontracted with A&D Environmental (A&D) to decontaminate the Frac Tank at the completion of the project. A&D mobilized to the site on May 8, 2024 to begin the decontamination process. A vacuum truck and pressure washer were used to remove the water and sludge from the frac tank. A&D continued to pressure wash the inside of the tank in three separate cycles to ensure the tank interior was thoroughly flushed of soil, sediment, and residual COCs. The sludge and rinsate were then transferred from the vacuum truck into three 275-gallon plastic totes for off-site disposal.

2.9 Installation of Groundwater Monitoring Wells

Between March 11 and 19, 2024, Northwind and Terracon oversaw the installation of four Type II (i.e., single-cased) and two Type III (i.e., double-cased “telescoping”) wells in the vicinity of the WOTA and WAP. These wells provided a well network for the long-term groundwater monitoring, which will be used to evaluate whether the soil removal activities will reduce the COC concentrations in groundwater. One shallow Type II monitoring well was installed in each of the source areas: MW-143 in the WOTA and MW-144 in the WAP. Paired shallow Type II monitoring wells and deep Type III monitoring wells were installed approximately 30 feet hydraulically downgradient of each of the source areas. Monitoring wells MW-145 (Type II) and MW-148 (Type III) were installed downgradient of the WAP and monitoring wells MW-146 (Type II) and MW-147 (Type III) were installed downgradient of the WOTA.

Terracon subcontracted with SAEDACCO Inc. (SAEDACCO), a North-Carolina certified Well Contractor (License No. 4439) to construct each of the wells. SAEDACCO installed the wells using a combination of hollow-stem auger and air-rotary drilling methods in accordance with the SOPs listed in the UFP-QAPP Work Plan (Northwind and Terracon, 2024). The borings for the Type II monitoring wells were advanced with hollow-stem auger drilling methods to auger refusal. The screened intervals for these wells were set above the bedrock interface. The Type III monitoring wells were advanced initially using hollow-stem auger drilling methods. Upon achieving auger refusal, SAEDACCO set and grouted in place a 6-inch PVC

outer casing. After the grout for the outer casing cured for approximately 12 to 24 hours, SAEDACCO utilized air-rotary drilling methods to advance the drilling tools through the grout in the outer casing and into bedrock to the proposed target depth of approximately 40 feet bls. Each Type II monitoring was constructed using 2-inch PVC casing and 10 feet of 0.010-inch machine slotted PVC screen, which were completed at depths ranging from 16 to 29 feet bls. The depths for the Type II wells varied depending on where groundwater was encountered. Each Type III monitoring well was constructed with a 6-inch PVC outer casing set into the top of bedrock that was intended to reduce hydraulic communication between the upper saprolite and lower bedrock aquifer zones.. The inner casing and screen were constructed with 2-inch PVC casing and 10 feet of 0.010-inch machine slotted PVC screen. The wells were finished at the surface with flush-mount 8-inch steel manways set in 2-foot by 2-foot concrete pads.

After installation, Terracon developed each newly installed monitoring by pumping and surging groundwater in the well using a submersible pump and PVC surge block. Approximately ten well volumes were removed from the Type II monitoring wells during the development process. Due to slow groundwater recharge, the Type III monitoring wells were purged dry approximately three times during the well development process. Soil cuttings and groundwater from the monitoring well installations and development were containerized in 55-gallon drums on the site for temporary storage.

The well construction details for each of the new monitoring wells are in Table 1. Lithologic logs of the new monitoring wells and copies of the well construction records submitted to the NCDEQ Division of Water Quality are in Appendix C.

2.10 Sample Collection from Groundwater Monitoring Wells

Terracon purged and sampled monitoring wells MW-143 through MW-148 in general accordance with the monitoring program outlined in the UFP-QAPP Work Plan (Northwind and Terracon, 2024). The samples were collected from monitoring wells MW-143 through MW-146 on April 10, 2024 and from monitoring wells MW-147 and MW-148 on May 8, 2024. Prior to sample collection, Terracon measured the depth to groundwater in each well using a freshly decontaminated water-level indicator. Terracon purged and sampled the monitoring wells using low-flow sampling techniques coupled with a peristaltic pump, submersible pump, and/or disposal polyethylene hand bailer. Additionally, water quality parameters were collected for pH, dissolved oxygen (DO), conductivity, temperature, and oxidation-reduction potential (ORP) during purging. Terracon collected the samples from wells after the pH and conductivity readings stabilized. The groundwater sample logs for each well are in Appendix C.

Terracon collected the groundwater directly into laboratory-supplied and preserved bottle ware, which were labeled and placed on ice in a cooler. The samples were shipped under

chain-of-custody control to Eurofins in Savannah, Georgia for analysis of VOCs via USEPA Method 8260D.

2.11 Elevation Survey

Terracon subcontracted with Borum & Wade to collect horizontal coordinates and vertical elevation data for monitoring wells MW-136 and MW-143 through MW-148. Borum & Wade completed the location and elevation survey using a total station survey meter referenced to North American Vertical Datum of 1988 (NAVD-88) and North American Horizontal Datum of 1983 with 2011 adjustments (NAD 83/2011). Appendix C includes the survey data provided by Borum & Wade, which includes top-of-casing (TOC) elevations and Latitude & Longitude data for each new or repaired monitoring well.

2.12 Field and Laboratory Quality Assurance and Quality Control

- Terracon collected field and laboratory quality assurance and quality control (QA/QC) samples throughout the completion of the excavation and groundwater monitoring activities in general accordance with the UFP-QAPP Work Plan (Northwind and Terracon, 2024). In addition, the following QA/QC samples were collected at a minimum frequency of 1 per 20 primary samples: Duplicate samples
- Equipment blanks from decontaminated equipment
- Field blanks in the vicinity of the work area
- Matrix spike and matrix spike duplicate samples

Trip blanks were included in most of the coolers that contained samples for analysis of total VOCs.

3.0 Summary of Results and Findings

The following subsections discuss the result of samples collected during the interim actions in the vicinity of the WOTA and WAP. Each subsection includes comparisons to applicable remedial goals, where appropriate depending on the media type.

3.1 Summary of Results from the Roll-Off Containers

Terracon used the readings from periodic screening with the PID and AQR Color-Tec® test kits to guide the excavation activities and to segregate suspected non-hazardous soil from suspected hazardous soil. Terracon then collected waste characterization samples from each roll-off container, using the procedures in Section 2.7.2., to characterize the contents and determine the disposal destination for each container. A summary of the analytical results for each roll-off are in Table 2. Copies of the laboratory analytical reports are in Appendix D.

A total of 33 roll-off containers were used during the excavation activities. Twenty-three (23) containers were used for the WOTA excavation, nine were used for the WAP excavation, and one was used for both excavations.

3.1.1 Characterization and Disposal of Soil Designated as Non-Hazardous Waste

Analytical results for the roll-off containers concluded that soil in the following 29 roll-off containers (from the WOTA and WAP excavations) were classified as non-hazardous waste because the detected concentrations were less than the “Contained-Out” Leachate Value for TCE (<0.5 mg/L) and the other COCs:

- Containers NH-01 through NH-15
- Containers H-05 through H-09
- Containers WAP-01 through WAP-09

Characteristically non-hazardous soil generated from the WOTA and WAP excavations was disposed at the Upper Piedmont Environmental Landfill in Rougemont, North Carolina. The total quantity of characteristically non-hazardous soil generated from the WOTA excavation was 271.20 tons. The total quantity of characteristically non-hazardous soil generated from the WAP excavation was 133.64 tons. Copies of the waste manifests for the non-hazardous roll-off containers are in Appendix E.

3.1.2 Characterization and Disposal of Soil Designated as Hazardous Waste

The following four roll-off containers (from the WOTA excavation) were classified as hazardous waste based on exceedances of the "Contained-Out" Leachate Value for TCE (<0.5 mg/L):

- Container H-01
- Container H-02
- Container H-03
- Container H-04

Characteristically hazardous soil generated from the WOTA was disposed at the US Ecology Wayne Disposal Inc. Hazardous Waste Landfill in Belleville, Michigan. The total quantity of characteristically hazardous soil generated from the WOTA excavation was approximately 56.80 tons. The waste manifests for the hazardous roll-off containers are in Appendix F.

3.1.3 Characterization and Disposal of Sludge from the Frac Tank Designated as Hazardous Waste

The liquid and sludge were classified as hazardous based on exceedances of the "Contained-Out" Leachate Value for TCE (<0.5 mg/L). The characteristically hazardous sludge from the frac tank was transported by A&D to Clean Harbors Reidsville, LLC in Reidsville, North Carolina on May 21, 2024 for disposal. The quantity of sludge was approximately 4,200 pounds.

A summary of the analytical results for the frac tank samples is in Table 3. The waste manifests for the hazardous sludge totes are in Appendix F.

3.2 Summary of Water Sample Results from the Sanitary Sewer Line

On February 15, Terracon collected a water sample from the sanitary sewer manhole beneath the loading dock to evaluate the VOC concentrations in water within the sewer. A summary of analytical results is in Table 4 and on Figure 4. The laboratory analytical report is in Appendix D. The sample results from the sanitary sewer line were compared to the Title 15A NCAC 2B Surface Water Quality Standards (2B Standards) (NCDEQ, 2022d) and the USEPA (2021b) Nationally Recommended Water Quality Criteria for Aquatic and Human Health (July 2021 versions). PCE and TCE were detected in the sample at concentrations greater than the 2B Standards. Other COCs were not detected above the regulatory limits. These data indicate that groundwater containing PCE and TCE is likely infiltrating into the sewer line, which is then transferred through the sewage system to the wastewater treatment plants managed by either the City of Burlington or Alamance County.

The VOC concentrations in the sewer pipe are relatively low, and will likely attenuate due physical, chemical, or biological processes (e.g., volatilization, biodegradation, and/or dilution) within the sewer pipes or within the wastewater treatment plants prior to effecting surface water quality at downgradient discharge points or outfalls. During development of the pending Feasibility Study, Terracon will contact officials with the City of Burlington and Alamance County to evaluate whether the sewer pipe should be abandoned and/or plug and/or to evaluate potential remedial actions to mitigate the infiltration of VOCs in groundwater into the sanitary or stormwater sewer systems.

3.3 Summary of Soil Results from Beneath the Waste Accumulation Pad (Before Excavation)

On February 19 and 20, 2024, SR&R removed the concrete rubble from the WAP and discovered three subgrade concrete vaults (i.e., sumps) that were part of the below ground structure of the WAP. Terracon identified these vaults as Sump 1, Sump 2, and Sump 3 (from east to west). After SR&R excavated and removed the sumps and other below ground concrete structures for the WAP, Terracon collected soil samples from beneath the WAP to evaluate the extents of impacts to soil and to determine whether soil beneath the WAP needed to be removed as part of these interim actions. A summary of analytical results is in Table 5. The laboratory analytical report is in Appendix D.

The soil samples collected beneath Sump 2 (i.e., the center sump) exhibited PCE concentrations above the “Contained-Out” Total Value (NCDEQ, 2016) at an approximate depth of 6 feet bls. In addition, TCE was detected above the Protection of Groundwater PSRG at 6 feet bls and PCE was detected above the Protection of Groundwater PSRG at 8 feet bls in the Sump 2 sample. COCs were not detected above regulatory limits in samples collected from beneath Sumps 1 and 3. Due to these results, Terracon instructed SR&R to excavate additional soil beneath Sump 2 due to the elevated COC concentrations identified in the exploratory samples.

3.4 Summary of Excavation Confirmation Samples

Northwind and Terracon oversaw SR&R’s field activities to remove additional soil and debris from beneath the WOTA and WAP. The estimated volume of soil excavated from beneath the WOTA was 300 cubic yards (in-place) and beneath the WAP was 100 cubic yards (in-place) based on the dimensions of each excavation. Cross-section diagrams of the excavations are in Appendix B. Terracon collected confirmation soil samples from beneath each area at the quantities and locations described in Section 2.4 for the WOTA and in Section 2.5 for the WAP. The results of these samples are described in more detail in the following subsections.

3.4.1 Results of Confirmation Soil Samples from the Excavation of the Waste Oil Transfer Area

A summary of analytical results from the WOTA confirmation samples is in Table 6. TCE and PCE concentrations for each confirmation soil sample are on Figure 5. The laboratory analytical reports are in Appendix D. Analytical results of soil samples collected from beneath the WOTA excavation extents were at concentrations greater than the NCDEQ PSRGs for the following COCs:

- TCE was detected in the six excavation base samples and all but one sidewall sample, with concentrations ranging from 0.00231 milligrams per kilogram (mg/kg) to 153 mg/kg. Nine samples exceeded the Protection of Groundwater PSRG (0.021 mg/kg), three samples exceeded the residential PSRG (0.87 mg/kg), and three samples exceeded the industrial/commercial PSRG (4 mg/kg) and the "Contained-Out" Total Value (10 mg/kg). The three highest concentrations were detected in soil samples collected on the southern excavation wall closest to the building and near the former stormwater manway at depths of 4 and 8 feet bls that exceeded the industrial/commercial PSRG:
    - WOTA-SS-01 (8 feet bls): 11.9 mg/kg
    - WOTA-SS-02 (4 feet bls): 153 mg/kg
    - WOTA-SS-02 (8 feet bls): 13 mg/kg
- PCE was detected at concentrations in sample WOTA-SS-02 (0.00752 mg/kg) that exceeded Protection of Groundwater PSRG (0.0063 mg/kg) collected at 8 feet bls along the southern excavation wall and adjacent to the former stormwater manway. PCE was not present in any sample at concentrations greater than the residential PSRG (17 mg/kg) or the industrial/commercial PSRG (82 mg/kg).
- Vinyl chloride was detected in seven samples at concentrations that exceeded the Protection of Groundwater PSRG (0.00021 mg/kg). Vinyl chloride was not present in any sample at concentrations greater than the residential PSRG (0.061 mg/kg) or the industrial/commercial PSRG (1.7 mg/kg).

Other VOCs and SVOCs detected in the confirmation samples from the WOTA excavation did not exceed the NCDEQ PSRGs. The results from these confirmation soil samples will be considered in the forthcoming Feasibility Study to evaluate potential response measures and/or remedial actions to address the TCE concentrations in soil that exceeded to residential and/or industrial/commercial PSRGs on the southern side of the excavation, closest to the building and the former stormwater manway.

3.4.2 Results of Confirmation Soil Samples from the Excavation of the Waste Accumulation Pad

A summary of analytical results from the WAP confirmation samples is in Table 7. TCE and PCE concentrations for each confirmation soil sample are on Figure 5. The laboratory analytical reports are in Appendix D. Analytical results for soil samples collected from beneath the WAP excavation extents indicated concentrations above the Protection of Groundwater PSRGs for PCE and TCE.

- PCE was detected in 12 samples with concentrations ranging from 0.0114 to 13.3 mg/kg. Nine samples across six locations exhibited concentrations that exceeded the NCDEQ Protection of Groundwater PSRG. PCE was not present in any sample at concentrations greater than the residential PSRG (17 mg/kg) or the industrial/commercial PSRG (82 mg/kg).

- TCE was detected in 12 samples with concentrations ranging from 0.00256 to 0.0525 mg/kg. Only one sample (WAP-SS-01 at 0.0525 mg/kg) exceeded the Protection of Groundwater PSRG (0.021 mg/kg). TCE was not present in any sample at concentrations greater than the residential PSRG (0.87 mg/kg) or the industrial/commercial PSRG (4.0 mg/kg).

Several SVOCs were detected above the laboratory detection limits in two eastern sidewall samples (WAP-SS-04) at depths of 4 and 8 feet bls. The sample from 8 feet bls contained benzo(a)pyrene at an estimated concentration of 0.284 mg/kg, which exceeded the residential PSRG (0.11 mg/kg). Benzo(a)pyrene is a large compound that is easily adsorbed to soil; and thus, has a low potential to migrate to groundwater. Benzo(a)pyrene and other SVOCs are present in asphalt at high concentrations. Therefore, the presence of benzo(a)pyrene and other SVOCs in the sample from WAP-SS-04 could be due to cross contamination from the asphalt pavement that surrounded the excavation area.

The results from these confirmation soil samples will be considered in the forthcoming Feasibility Study to evaluate potential response actions to address the VOCs in soil that exceeded the Protection of Groundwater PSRG.

3.5 Summary of Results from the Source Area Monitoring Wells

Between March 11 and 19, 2024, Northwind and Terracon oversaw the installation of four Type II monitoring wells (MW-143 through MW-146) and two monitoring wells Type III (MW-147 and MW-148) in the vicinity of the WOTA and WAP. The purposes of these wells are to provide a well network for the long-term monitoring of groundwater and to help evaluate how the soil removal activities will reduce the COC concentrations in groundwater. Terracon collected samples from monitoring wells MW-143 through MW-146 on April 10, 2024 and from monitoring wells MW-147 and MW-148 on May 8, 2024, using the procedures in Section 2.10. A summary of analytical results from the monitoring wells is in

Table 8. Figure 6 displays the detected concentrations for each monitoring well. The laboratory analytical reports are in Appendix D.

One or more analytes were detected at concentrations above the 2L Standards in samples collected from the saprolite monitoring wells MW-143 through MW-146. Groundwater COCs are consistent with the soil COCs, including TCE and PCE:

- TCE concentrations exceeded the 2L Standard of 3 micrograms per liter (µg/L) in the saprolite monitoring wells at concentrations ranging from 3.29 to 1,850 µg/L.
- PCE concentrations exceeded the 2L Standard of 0.7 µg/L in the saprolite monitoring wells at concentrations ranging from 2.55 to 534 µg/L.

Analytical results for the bedrock wells did not exhibit COC concentrations above the 2L Standards. The next groundwater monitoring event is planned in August 2024. Terracon will compare the results from the next groundwater monitoring event to the baseline data provided herein to help evaluate whether the soil removal activities have caused reductions of COC concentrations in groundwater.

3.6 Data Validation Results

Terracon reviewed and validated the analytical data collected during the source area removal activities in accordance with the Tarheel Army Missile Plant UFP-QAPP Work Plan (Northwind JV and Terracon, 2024), guidance from DoD Data Validation Guidelines, and analytical method requirements. The laboratory did not report detections in the equipment blanks, field blanks, or trip blanks during the source area removal activities. The duplicate soil and groundwater samples were generally comparable to the parent samples and no results were rejected based on the precision between the field duplicate results, indicating acceptable precision was demonstrated. The field duplicate results for the WAP confirmation sample (WAP-SS-01[4]) were the least comparable to the parent sample (Table 7); however, the differences were likely due to heterogeneous distribution of contaminant concentrations within the soil matrix.

Qualified data are presented in the analytical result tables (Tables 4 through 8). The individual review narratives for each of the data packages and a summary of the PARCC parameters are in Appendix G for each matrix. The sample analytical results were considered usable, as qualified, based on our review of the data for the PARCC parameters and sensitivity.

4.0 Conclusions and Recommendations

4.1 Summary of Conclusions

PCE and TCE were detected above the 2B Standards in a water sample collected from the sanitary sewer line adjacent to the source area prior to the excavation. The concentrations detected in the sanitary sewer sample relative to the concentrations detected in the source area monitoring wells indicate that the sanitary sewer likely receives COC-impacted groundwater due to infiltration through cracks or seals in the sewer line. During development of the pending Feasibility Study, Terracon will contact officials with the City of Burlington and Alamance County to evaluate whether the sewer pipe should be plugged and evaluated to determine potential remedial actions to mitigate the infiltration of VOCs in groundwater into the sanitary or stormwater sewer systems.

Contaminated soils were excavated and removed from within the WOTA and beneath the WAP. Approximately 461.64 tons of soil was excavated, of which approximately 56.80 tons were classified as hazardous soils. Non-hazardous soil was disposed at Upper Piedmont Environmental Landfill in Rougemont, North Carolina and hazardous soil was disposed of US Ecology Wayne Disposal Inc. Hazardous Waste Landfill in Belleville, Michigan. During the excavation activities, a stormwater sewer manway was discovered and removed from within the WOTA near the Building 2. This stormwater sewer manway was a likely source area for the PCE within the WOTA. Following excavation activities and confirmation soil sample collection, the excavation was backfilled using imported structural fill obtained from East Alamance Quarry.

The extents of the soil excavation activities were limited on the southern boundary of the WOTA due to the proximity to Building 2. The stormwater pipe and remaining soil contamination exists in these areas adjacent to and beneath the loading dock. Based on monitoring well data, groundwater contamination was present in shallow groundwater within and down gradient of the source areas.

4.2 Summary of Recommendations

The recommendations in this Interim Action Completion Report are consistent with the long-term monitoring plan detailed in the UFP-QAPP Work Plan Worksheet #14/16. UFP-QAPP Work Plan Worksheet #17 Area of Interest AOI-01 outlines the collection of groundwater geochemical parameters and samples for VOC analysis from the six new monitoring wells within and downgradient of the source excavations. The wells will be sampled on a semi-annual basis until August 2025. The remaining sampling events will occur in August 2024, February 2025, and August 2025. The results from this investigation and the long-term

monitoring program will be considered in the forthcoming Feasibility Study. Terracon will also evaluate the following during the future Feasibility Study:

- Potential response actions and/or remedial actions to address the COC concentrations in soil and groundwater beneath the WOTA and WAP.
- Potential response measures and/or remedial actions to address the TCE concentrations in soil that exceeded to residential and/or industrial/commercial PSRGs on the southern side of the WOTA excavation, closest to the building and the former stormwater manway. This evaluation will address methods for accessing and remediating soil beneath the loading dock.
- Potential response measures to mitigate the infiltration of VOC-impacted groundwater into the sanitary or stormwater sewer systems. During this evaluation, Terracon will contact officials with the City of Burlington and Alamance County to evaluate methods for abandoning and/or plugging the sewer pipe located south of the WOTA.

5.0 References

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NCDEQ, 2022a, Section:15A North Carolina Administrative Code (NCAC) – 02L .0202: Groundwater Quality Standards Rule. April 1.

NCDEQ, 2022b, Section:15A North Carolina Administrative Code (NCAC) – 02B .0100: Procedures for Assignment of Water Quality Standards, .0200: Classifications and Water Quality Standards Applicable to Surface Waters and Wetlands, .0300: Assignment of Stream Classifications. September 1.

NCDEQ, 2024. Preliminary Soil Remediation Goals (PSRGs) Table (based on November 2023 USEPA Regional Screening Tables). Found at: https://www.deq.nc.gov/waste-management/dwm/sf/risk-based-remediation/preliminary-soil-remediation-goals-table-and-notes-february-2024/download?attachment?attachment. February.

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Northwind Jacobs JV and Terracon, 2024, Work Plan UFP-QAPP, Draft Interim Remedial Action for Tarheel Army Missile Plant, Burlington, NC, Contract Number: W912HN18D1006, Task Order Number: W912HN23F1012., January.

USEPA, 2021, Nationally Recommended Water Quality Criteria for Aquatic Life and Human Health. July.

Tables

TABLE 1 - SOURCE AREA WELL CONSTRUCTION DETAILS AND DEPTH TO GROUNDWATER MEASUREMENTS

								Measurement Date	5/8/2024
Well ID	Installation Date	Latitude (DD)	Longitude (DD)	Top of Casing Elevation (ft msl)	Outer 6-inch PVC Casing Interval (ft bls)	Screen Interval (ft bls)	Depth of Well (ft bls)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-136[1]		36.09816389	-79.40762896	603.98	0 - 41.3	41.3 - 71.3[2]	71.3	NM	
MW-143	3/13/2024	36.09804090	-79.40774620	604.62	--	13 - 23	23	9.83	594.79
MW-144	3/13/2024	36.09807550	-79.40760690	604.64	--	14 - 24	24	11.40	593.24
MW-145	3/14/2024	36.09816730	-79.40769220	603.97	--	19 - 29	29	10.80	593.17
MW-146	3/14/2024	36.09817540	-79.40785670	604.16	--	6 - 16	16	9.80	594.36
MW-147	3/19/2024	36.09817380	-79.40783590	604.48	0 - 25	30 - 40	40	47.10	557.38
MW-148	3/18/2024	36.09816780	-79.40767310	604.03	0 - 35	40 - 50	50	49.60	554.43

Notes:
From survey data, horizontal coordinates were referenced to NAD 83 \ 2011 and vertical elevation is referenced to NAVD-88.
DD: Decimal Degrees / Coordinates were converted to decimal degree from North Carolina State Plane
ft msl: feet above mean sea level
ft bls: feet below land surface
ft bTOC: feet below the top of casing
1: MW-136 was installed by Arcadis in January 2019 and the top of the well casing was finished above the ground surface. The casing was cut and re-surveyed during the interim
2: MW-136 is an open borehole in bedrock below the 6-inch PVC casing.
NM: Not measured

TABLE 2 - SUMMARY OF ROLL-OFF CONTAINER WEIGHTS AND CHARACTERIZATION ANALYTICAL RESULTS

		Roll-off ID #	NH-01		NH-02		NH-03		NH-04		NH-05		NH-06		NH-07		NH-08		NH-09	
		Excavation Area	WOTA		WOTA		WOTA		WOTA		WOTA		WOTA		WOTA		WOTA		WOTA	
		Waste Classification	Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous	
		Weight (Tons)	12.02		17.06		17.85		8.71		12.28		13.74		13.71		12.15		14.98	
Analyte	Unit	"Contained-Out" Leachate Values	Results (mg/L)																	
Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) via USEPA Method 8260D																				
Chlorobenzene	mg/L	100.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Tetrachloroethene	mg/L	0.7	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
1,1-Dichloroethene	mg/L	0.7	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Trichloroethene	mg/L	0.5	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0155 J	0.129	<0.0200	0.0172 J	<0.0200	<0.0200	0.0250 B	<0.0200
TCLP Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270E																				
			Compounds Not Detected Above The Laboratory Reporting Limits																	

Notes:

Results in milligrams per liter (mg/L)

Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.

"Contained-Out" Leachate Values = North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016. Soil with concentrations above the "Contained-Out" level must be managed as hazardous waste.

Sample results compared to Maximum Concentration of Contaminants for the Toxicity Characteristic per 40 CFR 261.24.

USEPA = United States Environmental Protection Agency.

Bold indicates result was detected above the LOQ

Shading indicates exceedance of applicable standard.

"<" - Results below laboratory reporting limit.

Two VOC samples and one SVOC sample were collected from each roll-off container per the North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016

TABLE 2 - SUMMARY OF ROLL-OFF CONTAINER WEIGHTS AND CHARACTERIZATION ANALYTICAL RESULTS

		Roll-off ID #	NH-10		NH-11		NH-12		NH-13		NH-14		NH-15		H-01		H-02	
		Excavation Area	WOTA		WOTA		WOTA		WOTA		WOTA		WOTA/ WAP		WOTA		WOTA	
		Waste Classification	Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Hazardous		Hazardous	
		Weight (Tons)	14.50		15.47		12.36		13.34		14.85		15.33		13.47		13.75	
Analyte	Unit	"Contained-Out" Leachate Values	Results (mg/L)															
Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) via USEPA Method 8260D																		
Chlorobenzene	mg/L	100.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0258	<0.0200	<0.0200	0.0506	<0.0200	<0.0200	<0.0200	<1.00	<0.0200	<0.100
Tetrachloroethene	mg/L	0.7	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0211	0.0484	<0.0200	<1.00	<0.0200	<0.100
1,1-Dichloroethene	mg/L	0.7	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<1.00	<0.0200	<0.100
Trichloroethene	mg/L	0.5	0.0113 J B	0.0115 J B	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	**3.53**	**94.7**	0.171	**5.91**
TCLP Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270E																		
			Compounds Not Detected Above The Laboratory Reporting Limits															

Notes:

Results in milligrams per liter (mg/L)

Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.

"Contained-Out" Leachate Values = North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016. Soil with concentrations above the "Contained-Out" level must be managed as hazardous waste.

Sample results compared to Maximum Concentration of Contaminants for the Toxicity Characteristic per 40 CFR 261.24.

USEPA = United States Environmental Protection Agency.

Bold indicates result was detected above the LOQ

Shading indicates exceedance of applicable standard.

"<" - Results below laboratory reporting limit.

Two VOC samples and one SVOC sample were collected from each roll-off container per the North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016

TABLE 2 - SUMMARY OF ROLL-OFF CONTAINER WEIGHTS AND CHARACTERIZATION ANALYTICAL RESULTS

		Roll-off ID #	H-03		H-04		H-05		H-06		H-07		H-08		H-09		WAP-01	
		Excavation Area	WOTA		WOTA		WOTA		WOTA		WOTA		WOTA		WOTA		WAP	
		Waste Classification	Hazardous		Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous	
		Weight (Tons)	14.92		14.66		10.52		12.46		12.20		13.49		14.18		14.09	
Analyte	Unit	"Contained-Out" Leachate Values	Results (mg/L)															
Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) via USEPA Method 8260D																		
Chlorobenzene	mg/L	100.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.00611 J	<0.00100	<0.0200	<0.0200	<0.0200
Tetrachloroethene	mg/L	0.7	0.0156 J	0.0195 J	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.00100	<0.0200	<0.0200	0.592
1,1-Dichloroethene	mg/L	0.7	0.0146 J	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.00100	<0.0200	<0.0200	<0.0200
Trichloroethene	mg/L	0.5	19.4	26.9	3.11	2.66	0.177	0.0234	0.0174 J	<0.0200	<0.0200	0.0508 B	<0.0200	<0.0200	<0.00100	<0.0200	<0.0200	<0.0200
TCLP Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270E																		
			Compounds Not Detected Above The Laboratory Reporting Limits															

Notes:

Results in milligrams per liter (mg/L)

Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.

"Contained-Out" Leachate Values = North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016. Soil with concentrations above the "Contained-Out" level must be managed as hazardous waste.

Sample results compared to Maximum Concentration of Contaminants for the Toxicity Characteristic per 40 CFR 261.24.

USEPA = United States Environmental Protection Agency.

Bold indicates result was detected above the LOQ

Shading indicates exceedance of applicable standard.

"<" - Results below laboratory reporting limit.

Two VOC samples and one SVOC sample were collected from each roll-off container per the North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016

TABLE 2 - SUMMARY OF ROLL-OFF CONTAINER WEIGHTS AND CHARACTERIZATION ANALYTICAL RESULTS

		Roll-off ID #	WAP-02		WAP-03		WAP-04		WAP-05		WAP-06		WAP-07		WAP-08		WAP-09	
		Excavation Area	WAP		WAP		WAP		WAP		WAP		WAP		WAP		WAP	
		Waste Classification	Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous		Non-Hazardous	
		Weight (Tons)	15.42		14.08		15.94		13.99		15.14		14.78		15.49		14.71	
Analyte	Unit	"Contained-Out" Leachate Values	Results (mg/L)															
Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) via USEPA Method 8260D																		
Chlorobenzene	mg/L	100.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Tetrachloroethene	mg/L	0.7	0.0170 J	<0.0200	<0.0200	<0.0200	0.112	0.0428	0.0405	<0.0200	<0.0200	<0.0200	<0.0200	0.0199 J	0.251	0.0260	0.0287	<0.0200
1,1-Dichloroethene	mg/L	0.7	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Trichloroethene	mg/L	0.5	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
TCLP Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270E																		
			Compounds Not Detected Above The Laboratory Reporting Limits															

Notes:

Results in milligrams per liter (mg/L)

Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.

"Contained-Out" Leachate Values = North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016. Soil with concentrations above the "Contained-Out" level must be managed as hazardous waste.

Sample results compared to Maximum Concentration of Contaminants for the Toxicity Characteristic per 40 CFR 261.24.

USEPA = United States Environmental Protection Agency.

Bold indicates result was detected above the LOQ

Shading indicates exceedance of applicable standard.

"<" - Results below laboratory reporting limit.

Two VOC samples and one SVOC sample were collected from each roll-off container per the North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016

TABLE 3 - SUMMARY OF WASTE CHARACTERIZATION RESULTS FROM THE FRAC TANK

			Media:	Frac Tank Water	Frac Tank Sludge
			Sample Name:	Frac Tank-01	Frac Sludge
			Date:	3/21/2024	4/10/2024
Analyte	Unit	"Contained-Out" Leachate Values			
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D					
Cis-1,2-Dichloroethene	mg/L	7		0.0262	NA
Tetrachloroethene	mg/L	0.7		0.0109	NA
Trichloroethene	mg/L	0.5		1.79	NA
SEMI-VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8270E					
				ND	NA
RESOURCE CONSERVATION AND RECOVERY ACT 8 METALS VIA USEPA METHOD 6010D/7470A					
Barium	mg/L	100		0.0609	NA
Chromium	mg/L	5		0.0766	NA
TOTAL PETROLEUM HYDROCARBON VIA USEPA METHOD 8015C					
Gasoline Range Organics (C6-C10)	mg/L	NE		0.453	NA
Diesel Range Organics (C10-C28)	mg/L	NE		20.8	NA
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D					
Tetrachloroethene	mg/kg	14		NA	4.15
Trichloroethene	mg/kg	10		NA	98.1
TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D					
Tetrachloroethene	mg/L	0.7		NA	0.0261
Trichloroethene	mg/L	0.5		NA	1.09

Notes:

"Contained-Out" Leachate Values = North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016. Soil with concentrations above the "Contained-Out" level must be managed as hazardous waste.

USEPA = United States Environmental Protection Agency.
Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.
Bold = values detected at >LoQ.
mg/L = milligrams per liter
mg/kg = milligrams per kilogram
NE = Standard not established
NA = Not analyzed due to media type
ND = Not detected above the LoQ
Bold = values detected at >LoQ.
Shaded values (if present) exceeded the referenced standard.

				Sample Location	LD-Sewer
				Sample Date	2/15/2024
Analyte	Unit	2B Standard	USEPA NRWQC	NC ISTV	
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D					
Chloroform	µg/L	NE	60	NE	0.569 J+
Cis-1,2-Dichloroethene	µg/L	NE	NE	60	1.59
Tetrachloroethene	µg/L	0.7	NE	NE	0.842 J+
Trichloroethene	µg/L	2.5	NE	NE	3.38

Notes:
2B Standard = Subtitle 15A North Carolina Administrative Code (NCAC) 02B Surface Water and Wetland Standards.
USEPA = United States Environmental Protection Agency.
NRWQC = Nationally Recommended Water Quality Criteria (https://deq.nc.gov/ncstdstable07262021).
NC ISTV = North Carolina In-Stream Target Values for Surface Waters (https://deq.nc.gov/ncstdstable07262021).
Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.
µg/L = Microgram per liter.
NE = Standard not established.
NA = Not Analyzed.
Validation qualifiers included:
Bold = values detected at >LoQ.
J+ = Qualified as estimated, with the estimated value biased high.
Shaded values (if present) exceeded the referenced standard.

					Sample Location:	WAP-Sump1	WAP-Sump1	WAP-Sump2	WAP-Sump2	WAP-Sump3	WAP-Sump3
					Depth:	6FT	8FT	6FT	8FT	6FT	8FT
					Sample Date:	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024
Analyte	Unit	"Contained-Out" Total Levels	Protection of Groundwater PSRG	Residential PSRG	Industrial/ Commercial PSRG						
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D											
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	2,100	9,800	1,400	6,000	< 0.00541	< 0.00490	3.1	0.184	< 0.00516	< 0.00463
Acetone	mg/kg	1,400	25	14,000	210,000	0.0436 J	0.0166 J	0.0216 J	0.0180 J	0.0263 J	< 0.0463
Cis-1,2-Dichloroethene	mg/kg	140	0.41	13	78	< 0.00541	< 0.00490	0.0905	0.0146	< 0.00516	< 0.00463
Tetrachloroethene	mg/kg	14	0.0063	17	82	0.00431 J	< 0.00490	20.8	0.345 J+	< 0.00516	< 0.00463
Trichloroethene	mg/kg	10	0.021	0.87	4	< 0.00541	< 0.00490	0.159	0.0177	< 0.00516	< 0.00463

Notes:

"Contained-Out" Total Levels = North Carolina Department of Environmental Quality "Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste dated June 28, 2016. Soil with concentrations above the "Contained-Out" level must be managed as hazardous waste.

Protection of Groundwater PSRG = Preliminary Soil Remediation Goal (PSRG) based on the protection of leaching to groundwater.

Residential PSRG = PSRG for the protection of human health based on residential exposure scenarios.

Industrial/Commercial PSRG = PSRG for the protection of human health based on commercial / industrial exposure scenarios.

USEPA = United States Environmental Protection Agency.

Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.

mg/kg = milligrams per kilogram

Validation qualifiers included:

Non detects shown as < LoQ.

Bold = values detected at >LoQ.

J = Qualified as estimated.

J+ = Qualified as estimated, with the estimated value biased high.

Shaded values (if present) exceeded the referenced standard.

TABLE 6 - SUMMARY OF ANALYTICAL RESULTS FROM WASTE OIL TRANSFER AREA CONFIRMATION SAMPLES

				Location:	WOTA-BS-01	WOTA-BS-02	WOTA-BS-03	WOTA-BS-04	WOTA-BS-05	WOTA-BS-06	WOTA-SS-01	WOTA-SS-01	WOTA-SS-02	WOTA-SS-02	WOTA-SS-02	WOTA-SS-03	WOTA-SS-03
				Sample Name:	WOTA-BS-01	WOTA-BS-02	WOTA-BS-03	WOTA-BS-04	WOTA-BS-05	WOTA-BS-06	WOTA-SS-01 (4)	WOTA-SS-01 (8)	WOTA-SS-02 (4)	DUP-WOTA	WOTA-SS-02 (8)	WOTA-SS-03 (4)	WOTA-SS-03 (8)
				Date:	2/27/2024	2/27/2024	2/27/2024	3/5/2024	3/5/2024	3/5/2024	2/28/2024	2/28/2024	2/28/2024	2/28/2024	2/28/2024	2/28/2024	2/28/2024
				Depth:	14 ft	14 ft	14 ft	14 ft	14 ft	14 ft	4 ft	8 ft	4 ft	4 ft	8 ft	4 ft	8 ft
Analyte	Unit	Protection of Groundwater PSRG	Residential PSRG	Industrial/ Commercial PSRG													
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D																	
1,1,2-Trichloro-1,2,2-trifluo	mg/kg	9,800	1,400	6,000	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	< 0.00483	0.00612
1,1-Dichloroethane	mg/kg	0.034	3.8	17	< 0.158	< 0.182	0.00383 J	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	0.00369 J	< 0.00483	< 0.0056
1,1-Dichloroethene	mg/kg	2.5	48	210	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	< 0.00483	< 0.0056
1,2,4-Trimethylbenzene	mg/kg	12	63	370	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.0141	< 0.0056
1,2-Dichlorobenzene	mg/kg	0.39	380	2,000	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	0.00420 J	< 0.436	< 0.594	0.00866	< 0.00483	0.00243 J
1,3,5-Trimethylbenzene	mg/kg	11	56	320	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.00775	< 0.0056
1,4-Dichlorobenzene	mg/kg	0.12	2.8	12	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	0.00324 J	< 0.00483	< 0.0056
2-Butanone	mg/kg	17	5,500	40,000	< 0.79	< 0.91	< 0.025	< 0.026	< 0.0235	< 0.0206	< 0.0212	< 0.0221	< 2.18	< 2.97	< 0.021	0.0107 J	0.0229 J
Acetone	mg/kg	25	14,000	210,000	0.464 J+	0.724 J+	0.0154 J	0.0342 J	0.0232 J	0.0191 J+	0.0298 J	0.0237 J	< 4.36	< 5.94	0.0622	0.0756	0.0705
Carbon Disulfide	mg/kg	4.1	160	740	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	< 0.00483	0.00472 J
Chlorobenzene	mg/kg	0.68	58	280	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	< 0.00483	< 0.0056
Cis-1,2-Dichloroethene	mg/kg	0.41	13	78	< 0.158	< 0.182	0.128	0.0151	0.00537	0.00630 J+	< 0.00423	0.00898	< 0.436	< 0.594	0.0804	< 0.00483	0.0922
Ethylbenzene	mg/kg	13	6.1	27	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.0314	< 0.0056
Hexachlorobutadiene	mg/kg	0.015	1.3	5.6	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.00427 J	< 0.0056
Iodomethane	mg/kg	NE	NE	NE	0.171 J+	0.195 J+	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	< 0.00483	< 0.0056
Isopropylbenzene	mg/kg	2.3	410	2,100	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.00318 J	< 0.0056
m,p-Xylenes	mg/kg	9.8	120	510	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	0.00217 J	0.0886	< 0.0056
Naphthalene	mg/kg	0.39	2.1	8.8	0.119 J+	0.138 J+	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	0.00287 J	< 0.436	< 0.594	0.00294 J	0.0231	< 0.0056
n-Butylbenzene	mg/kg	4.5	780	12,000	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.00303 J	< 0.0056
n-Heptane	mg/kg	62	4.4	58	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.0626	< 0.0056
n-Propylbenzene	mg/kg	2.6	780	5,100	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.00321 J	< 0.0056
o-Xylene	mg/kg	9.8	140	590	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.0533	< 0.0056
p-Isopropyltoluene	mg/kg	NE	NE	NE	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.0248	< 0.0056
Tetrachloroethene	mg/kg	0.0063	17	82	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	0.00752	< 0.00483	< 0.0056
Toluene	mg/kg	8.3	990	9,700	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	0.0101	0.0371	< 0.0056
Total Xylenes	mg/kg	9.9	120	530	< 0.316	< 0.364	< 0.01	< 0.0104	< 0.00939	< 0.00824	< 0.00847	< 0.00883	< 0.872	< 1.19	< 0.00839	0.142	< 0.0112
Trans-1,2-Dichloroethene	mg/kg	0.62	15	64	< 0.158	< 0.182	0.00291 J	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	0.00198 J	< 0.00483	< 0.0056
Trichloroethene	mg/kg	0.021	0.87	4	0.498 J+	1.35 J+	3.34	0.0831	0.0238	0.00257 J+	0.00990	11.9	153	102	13.0	0.0411	0.691 J+
Vinyl Chloride	mg/kg	0.00021	0.061	1.7	< 0.158	< 0.182	< 0.00501	< 0.0052	< 0.0047	< 0.00412	< 0.00423	< 0.00441	< 0.436	< 0.594	< 0.00419	0.0188	0.00531 J
SEMI-VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8270E																	
Benzo(a)anthracene	mg/kg	0.35	1.1	21	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	0.0896 J	0.103 J	< 0.385	0.0760 J	< 0.403
Benzo(a)pyrene	mg/kg	0.12	0.11	2.1	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	< 0.402	< 0.398	< 0.385	< 0.429	< 0.403
Benzo(b)fluoranthene	mg/kg	1.2	1.1	21	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	< 0.402	< 0.398	< 0.385	< 0.429	< 0.403
Benzo(g,h,i)perylene	mg/kg	NE	NE	NE	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	< 0.402	0.0851 J	< 0.385	< 0.429	< 0.403
Bis(2-ethylhexyl) phthalate	mg/kg	14	39	160	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	0.0789 J	0.0907 J	< 0.385	0.0752 J	< 0.403
Chrysene	mg/kg	36	110	2,100	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	0.129 J	0.186 J	< 0.385	0.157 J	< 0.403
Fluoranthene	mg/kg	670	480	6,000	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	0.123 J	0.184 J	< 0.385	0.0924 J	< 0.403
Phenanthrene	mg/kg	NE	NE	NE	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	0.113 J	0.156 J	< 0.385	0.156 J	< 0.403
Pyrene	mg/kg	440	360	4,500	< 0.397	< 0.408	< 0.415	< 0.402	< 0.408	< 0.403	< 0.391	< 0.408	0.168 J	0.259 J	< 0.385	0.105 J	< 0.403

Notes:
Protection of Groundwater PSRG = Preliminary Soil Remediation Goal (PSRG) based on the protection of leaching to groundwater.
Residential PSRG = PSRG for the protection of human health based on residential exposure scenarios.
Industrial/Commercial PSRG = PSRG for the protection of human health based on commercial / industrial exposure scenarios.
USEPA = United States Environmental Protection Agency.
Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.
mg/kg = milligrams per kilogram
NE = Standard not established
Validation qualifiers included:
Non detects shown as < LoQ.
Bold = values detected at >LoQ.
J = Qualified as estimated.
J- = Qualified as estimated, with the estimated value biased low.
J+ = Qualified as estimated, with the estimated value biased high.
Shaded values (if present) exceeded the referenced standard.
Duplicate sample DUP-WOTA collected from WOTA-SS-02 at 4 feet depth.

TABLE 6 - SUMMARY OF ANALYTICAL RESULTS FROM WASTE OIL TRANSFER AREA CONFIRMATION SAMPLES

				Location:	WOTA-SS-04	WOTA-SS-04	WOTA-SS-05	WOTA-SS-05	WOTA-SS-06	WOTA-SS-06	WOTA-SS-07	WOTA-SS-07	WOTA-SS-08	WOTA-SS-08	WOTA-SS-09	WOTA-SS-09a	WOTA-SS-09b
				Sample Name:	WOTA-SS-04 (4)	WOTA-SS-04 (8)	WOTA-SS-05 (4)	WOTA-SS-05 (8)	WOTA-SS-06 (4)	WOTA-SS-06 (8)	WOTA-SS-07 (4)	WOTA-SS-07 (8)	WOTA-SS-08 (4)	WOTA-SS-08 (8)	WOTA-SS-09 (8)	WOTA-SS-09a (4)	WOTA-SS-09b (4)
				Date:	3/5/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024	3/5/2024	2/28/2024	2/28/2024	2/28/2024
				Depth:	4 ft	8 ft	4 ft	8 ft	4 ft	8 ft	4 ft	8 ft	4 ft	8 ft	8 ft	4 ft	4 ft
Analyte	Unit	Protection of Groundwater PSRG	Residential PSRG	Industrial/ Commercial PSRG													
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D																	
1,1,2-Trichloro-1,2,2-trifluo	mg/kg	9,800	1,400	6,000	0.000717 J	0.0122	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	0.00150 J	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
1,1-Dichloroethane	mg/kg	0.034	3.8	17	0.00290 J	0.000957 J	0.00167 J	< 0.00503	< 0.00485	< 0.00725	0.00394 J	0.000904 J	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
1,1-Dichloroethene	mg/kg	2.5	48	210	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	0.000964 J	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
1,2,4-Trimethylbenzene	mg/kg	12	63	370	0.00105 J	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
1,2-Dichlorobenzene	mg/kg	0.39	380	2,000	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	0.000749 J	0.00211 J	< 0.00529	< 0.00437
1,3,5-Trimethylbenzene	mg/kg	11	56	320	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
1,4-Dichlorobenzene	mg/kg	0.12	2.8	12	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
2-Butanone	mg/kg	17	5,500	40,000	0.00907 J	< 0.0244	0.00657 J	< 0.0252	0.00929 J	0.0108 J	0.00554 J	0.00744 J	< 0.0289	< 0.0231	< 0.0217	< 0.0264	< 0.0218
Acetone	mg/kg	25	14,000	210,000	0.0613	0.0161 J	0.0619	0.0418	0.0883	0.0831	0.0515	0.0487	0.0600 J+	0.0221 J	0.0260 J	0.0545	0.0136 J
Carbon Disulfide	mg/kg	4.1	160	740	0.00223 J	0.00169 J	< 0.00473	< 0.00503	0.00378 J	< 0.00725	0.00157 J	0.00261 J	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Chlorobenzene	mg/kg	0.68	58	280	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	0.00139 J	< 0.00435	< 0.00529	< 0.00437
Cis-1,2-Dichloroethene	mg/kg	0.41	13	78	0.0158	0.00526	0.00225 J	< 0.00503	0.00209 J	0.0102	0.0398	0.0143	0.00427 J+	0.00420 J	0.00604	< 0.00529	0.00453
Ethylbenzene	mg/kg	13	6.1	27	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Hexachlorobutadiene	mg/kg	0.015	1.3	5.6	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435 J-	< 0.00529	< 0.00437
Iodomethane	mg/kg	NE	NE	NE	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	0.00845	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Isopropylbenzene	mg/kg	2.3	410	2,100	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
m,p-Xylenes	mg/kg	9.8	120	510	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Naphthalene	mg/kg	0.39	2.1	8.8	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	0.00294 J	< 0.00529	< 0.00437
n-Butylbenzene	mg/kg	4.5	780	12,000	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
n-Heptane	mg/kg	62	4.4	58	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435 J-	< 0.00529	< 0.00437
n-Propylbenzene	mg/kg	2.6	780	5,100	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
o-Xylene	mg/kg	9.8	140	590	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
p-Isopropyltoluene	mg/kg	NE	NE	NE	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Tetrachloroethene	mg/kg	0.0063	17	82	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Toluene	mg/kg	8.3	990	9,700	< 0.00417	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	< 0.00397	< 0.00478	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Total Xylenes	mg/kg	9.9	120	530	< 0.00834	< 0.00974	< 0.00947	< 0.0101	< 0.0097	< 0.0145	< 0.00794	< 0.00957	< 0.0116	< 0.00922	< 0.00869	< 0.0106	< 0.00874
Trans-1,2-Dichloroethene	mg/kg	0.62	15	64	0.000973 J	< 0.00487	< 0.00473	< 0.00503	< 0.00485	< 0.00725	0.00347 J	0.00204 J	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
Trichloroethene	mg/kg	0.021	0.87	4	0.00417	0.0797	0.00231 J	< 0.00503	0.00508	0.00717 J	0.0583	0.0555	0.00418 J+	0.0984	3.26 J+	0.00369 J	0.0160
Vinyl Chloride	mg/kg	0.00021	0.061	1.7	0.00597	< 0.00487	0.00652	< 0.00503	< 0.00485	0.00203 J	0.000679 J	0.00606	< 0.00578	< 0.00461	< 0.00435	< 0.00529	< 0.00437
SEMI-VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8270E																	
Benzo(a)anthracene	mg/kg	0.35	1.1	21	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	0.0544 J	< 0.434	< 0.391	< 0.377	< 0.418	< 0.379
Benzo(a)pyrene	mg/kg	0.12	0.11	2.1	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	0.0908 J	< 0.434	0.0682 J	< 0.377	< 0.418	< 0.379
Benzo(b)fluoranthene	mg/kg	1.2	1.1	21	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	0.0899 J	< 0.434	0.0549 J	< 0.377	< 0.418	< 0.379
Benzo(g,h,i)perylene	mg/kg	NE	NE	NE	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	0.0636 J	< 0.434	< 0.391	< 0.377	< 0.418	< 0.379
Bis(2-ethylhexyl) phthalate	mg/kg	14	39	160	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	< 0.416	< 0.434	< 0.391	< 0.377	< 0.418	< 0.379
Chrysene	mg/kg	36	110	2,100	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	0.0912 J	< 0.434	0.0444 J	< 0.377	< 0.418	< 0.379
Fluoranthene	mg/kg	670	480	6,000	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	< 0.416	< 0.434	0.0581 J	< 0.377	< 0.418	< 0.379
Phenanthrene	mg/kg	NE	NE	NE	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	< 0.416	< 0.434	< 0.391	< 0.377	< 0.418	< 0.379
Pyrene	mg/kg	440	360	4,500	< 0.394	< 0.402	< 0.436	< 0.425	< 0.416	< 0.39	< 0.384	0.114 J	< 0.434	0.108 J	< 0.377	< 0.418	< 0.379

Notes:
Protection of Groundwater PSRG = Preliminary Soil Remediation Goal (PSRG) based on the protection of leaching to groundwater.
Residential PSRG = PSRG for the protection of human health based on residential exposure scenarios.
Industrial/Commercial PSRG = PSRG for the protection of human health based on commercial / industrial exposure scenarios.
USEPA = United States Environmental Protection Agency.
Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.
mg/kg = milligrams per kilogram
NE = Standard not established
Validation qualifiers included:
Non detects shown as < LoQ.
Bold = values detected at >LoQ.
J = Qualified as estimated.
J- = Qualified as estimated, with the estimated value biased low.
J+ = Qualified as estimated, with the estimated value biased high.
Shaded values (if present) exceeded the referenced standard.
Duplicate sample DUP-WOTA collected from WOTA-SS-02 at 4 feet depth.

TABLE 7 - SUMMARY OF ANALYTICAL RESULTS FROM WASTE ACCUMULATION PAD CONFIRMATION SAMPLES

				Location:	WAP-BS-01	WAP-BS-02	WAP-SS-01	WAP-SS-01	WAP-SS-01	WAP-SS-02	WAP-SS-02
				Sample Name:	WAP-BS-01	WAP-BS-02	WAP-SS-01 (4)	WAP-DUP-20240308	WAP-SS-01 (8)	WAP-SS-02 (4)	WAP-SS-02 (8)
				Date:	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024
				Depth:	12 ft	12 ft	4 ft	4 ft	8 ft	4 ft	8 ft
Analyte	Unit	Protection of Groundwater PSRG	Residential PSRG	Industrial/ Commercial PSRG							
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D											
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	9,800	1,400	6,000	0.00455 J	0.0121	0.245 J+	1.56 J	< 0.00517	0.104	0.00892
1,1-Dichloroethene	mg/kg	2.5	48	210	< 0.00544	< 0.00543	< 0.00529	0.0174	< 0.0048	< 0.00513	< 0.00498
1,2,4-Trimethylbenzene	mg/kg	12	63	370	< 0.00544	< 0.00543	< 0.00529	0.00436 J	< 0.0048	< 0.00513	< 0.00498
Acetone	mg/kg	25	14,000	210,000	0.0183 J	0.0343 J	0.0258 J	0.0232 J	0.0428 J	0.0293 J	0.0185 J
Carbon Disulfide	mg/kg	4.1	160	740	< 0.00544	< 0.00543	< 0.00529	< 0.00463	< 0.0048	< 0.00513	< 0.00498
Chlorobenzene	mg/kg	0.68	58	280	< 0.00544	< 0.00543	< 0.00529	< 0.00463	< 0.0048	< 0.00513	0.00146 J
Cis-1,2-Dichloroethene	mg/kg	0.41	13	78	0.00660	0.00410 J	0.0127 J	0.0296 J	< 0.0048	0.00944	0.00310 J
Ethylbenzene	mg/kg	13	6.1	27	< 0.00544	< 0.00543	< 0.00529	0.00387 J	< 0.0048	< 0.00513	< 0.00498
Hexane	mg/kg	55	130	540	< 0.00544	< 0.00543	< 0.00529	0.00189 J	< 0.0048	< 0.00513	< 0.00498
m,p-Xylenes	mg/kg	9.8	120	510	< 0.00544	< 0.00543	< 0.00529	0.00231 J	< 0.0048	< 0.00513	< 0.00498
Naphthalene	mg/kg	0.39	2.1	8.8	< 0.00544	0.00396 J	< 0.00529	0.00489	< 0.0048	< 0.00513	< 0.00498
O-Xylene	mg/kg	9.8	140	590	< 0.00544	< 0.00543	< 0.00529	0.00623	< 0.0048	< 0.00513	< 0.00498
Tetrachloroethene	mg/kg	0.0063	17	82	0.0300	0.133	1.26 J+	13.3 J	0.0173	0.0531	0.0149
Total Xylenes	mg/kg	9.9	120	530	< 0.0109	< 0.0109	< 0.0106	0.00854 J	< 0.00961	< 0.0103	< 0.00997
Trichloroethene	mg/kg	0.021	0.87	4	0.00343 J	0.00580	0.0525	< 0.52	< 0.0048	0.00492 J	0.00333 J
SEMI-VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8270E											
Anthracene	mg/kg	1,300	3,600	45,000	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Benzo(a)anthracene	mg/kg	0.35	1.1	21	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Benzo(a)pyrene	mg/kg	0.12	0.11	2.1	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Benzo(b)fluoranthene	mg/kg	1.2	1.1	21	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Benzo(g,h,i)perylene	mg/kg	NE	NE	NE	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Benzo(k)fluoranthene	mg/kg	12	11	210	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Chrysene	mg/kg	36	110	2,100	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Fluoranthene	mg/kg	670	480	6,000	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Fluorene	mg/kg	110	480	6,000	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Indeno(1,2,3-Cd)Pyrene	mg/kg	3.9	1.1	21	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Phenanthrene	mg/kg	NE	NE	NE	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408
Pyrene	mg/kg	440	360	4,500	< 0.433	< 0.431	< 0.415	< 0.422	< 0.44	< 0.42	< 0.408

Notes:
Protection of Groundwater PSRG = Preliminary Soil Remediation Goal (PSRG) based on the protection of leaching to groundwater.
Residential PSRG = PSRG for the protection of human health based on residential exposure scenarios.
Industrial/Commercial PSRG = PSRG for the protection of human health based on commercial / industrial exposure scenarios.
USEPA = United States Environmental Protection Agency.
Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.
mg/kg = milligrams per kilogram
NE = Standard not established
NA = Not Analyzed
Validation qualifiers included:
Non detects shown as < LoQ.
Bold = values detected at >LoQ.
J = Qualified as estimated.
J+ = Qualified as estimated, with the estimated value biased high.
Shaded values (if present) exceeded the referenced standard.
Duplicate sample WAP-DUP-20240308 collected from WAP-SS-01 at 4 feet depth.

TABLE 7 - SUMMARY OF ANALYTICAL RESULTS FROM WASTE ACCUMULATION PAD CONFIRMATION SAMPLES

				Location:	WAP-SS-03	WAP-SS-03	WAP-SS-04	WAP-SS-04	WAP-SS-05	WAP-SS-05	WAP-SS-06	WAP-SS-06
				Sample Name:	WAP-SS-03 (4)	WAP-SS-03 (8)	WAP-SS-04 (4)	WAP-SS-04 (8)	WAP-SS-05 (4)	WAP-SS-05 (8)	WAP-SS-06 (4)	WAP-SS-06 (8)
				Date:	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024	3/8/2024
				Depth:	4 ft	8 ft	4 ft	8 ft	4 ft	8 ft	4 ft	8 ft
Analyte	Unit	Protection of Groundwater PSRG	Residential PSRG	Industrial/ Commercial PSRG								
VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8260D												
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	9,800	1,400	6,000	< 0.00538	0.00949 J+	0.00286 J+	< 0.00512	< 0.00419	< 0.00523	0.00351 J	< 0.00488
1,1-Dichloroethene	mg/kg	2.5	48	210	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
1,2,4-Trimethylbenzene	mg/kg	12	63	370	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Acetone	mg/kg	25	14,000	210,000	0.0338 J+	0.0267 J+	0.0458 J+	0.0323 J+	0.0555 J+	0.0449 J+	0.0244 J+	0.0285 J+
Carbon Disulfide	mg/kg	4.1	160	740	< 0.00538	< 0.00448	0.00202 J+	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Chlorobenzene	mg/kg	0.68	58	280	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Cis-1,2-Dichloroethene	mg/kg	0.41	13	78	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Ethylbenzene	mg/kg	13	6.1	27	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Hexane	mg/kg	55	130	540	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
m,p-Xylenes	mg/kg	9.8	120	510	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Naphthalene	mg/kg	0.39	2.1	8.8	< 0.00538	< 0.00448	< 0.0048	0.00393 J	0.00336 J	< 0.00523	< 0.00451	< 0.00488
O-Xylene	mg/kg	9.8	140	590	< 0.00538	< 0.00448	< 0.0048	< 0.00512	< 0.00419	< 0.00523	< 0.00451	< 0.00488
Tetrachloroethene	mg/kg	0.0063	17	82	< 0.00538	< 0.00448	0.0305 J+	0.0395	0.00423	0.00314 J+	0.0114	0.00583 J+
Total Xylenes	mg/kg	9.9	120	530	< 0.0108	< 0.00896	< 0.00959	< 0.0102	< 0.00838	< 0.0105	< 0.00903	< 0.00977
Trichloroethene	mg/kg	0.021	0.87	4	< 0.00538	0.00259 J+	0.00446 J+	0.00453 J	0.00256 J	0.00338 J+	0.00325 J	0.00308 J+
SEMI-VOLATILE ORGANIC COMPOUNDS VIA USEPA METHOD 8270E												
Anthracene	mg/kg	1,300	3,600	45,000	< 0.405	< 0.4	< 0.402	0.113 J	< 0.407	< 0.417	< 0.389	< 0.394
Benzo(a)anthracene	mg/kg	0.35	1.1	21	< 0.405	< 0.4	0.0569 J	0.335 J	< 0.407	< 0.417	< 0.389	< 0.394
Benzo(a)pyrene	mg/kg	0.12	0.11	2.1	< 0.405	< 0.4	0.0952 J	0.284 J	< 0.407	< 0.417	< 0.389	< 0.394
Benzo(b)fluoranthene	mg/kg	1.2	1.1	21	< 0.405	< 0.4	0.0942 J	0.205 J	< 0.407	< 0.417	< 0.389	< 0.394
Benzo(g,h,i)perylene	mg/kg	NE	NE	NE	< 0.405	< 0.4	0.0986 J	0.159 J	< 0.407	< 0.417	< 0.389	< 0.394
Benzo(k)fluoranthene	mg/kg	12	11	210	< 0.405	< 0.4	< 0.402	0.139 J	< 0.407	< 0.417	< 0.389	< 0.394
Chrysene	mg/kg	36	110	2,100	< 0.405	< 0.4	0.0780 J	0.382 J	< 0.407	< 0.417	< 0.389	< 0.394
Fluoranthene	mg/kg	670	480	6,000	< 0.405	< 0.4	0.0886 J	0.496	< 0.407	< 0.417	< 0.389	< 0.394
Fluorene	mg/kg	110	480	6,000	< 0.405	< 0.4	< 0.402	0.0993 J	< 0.407	< 0.417	< 0.389	< 0.394
Indeno(1,2,3-Cd)Pyrene	mg/kg	3.9	1.1	21	< 0.405	< 0.4	< 0.402	0.101 J	< 0.407	< 0.417	< 0.389	< 0.394
Phenanthrene	mg/kg	NE	NE	NE	< 0.405	< 0.4	0.0678 J	0.801	< 0.407	< 0.417	< 0.389	< 0.394
Pyrene	mg/kg	440	360	4,500	< 0.405	< 0.4	0.128 J	0.867	< 0.407	< 0.417	< 0.389	< 0.394

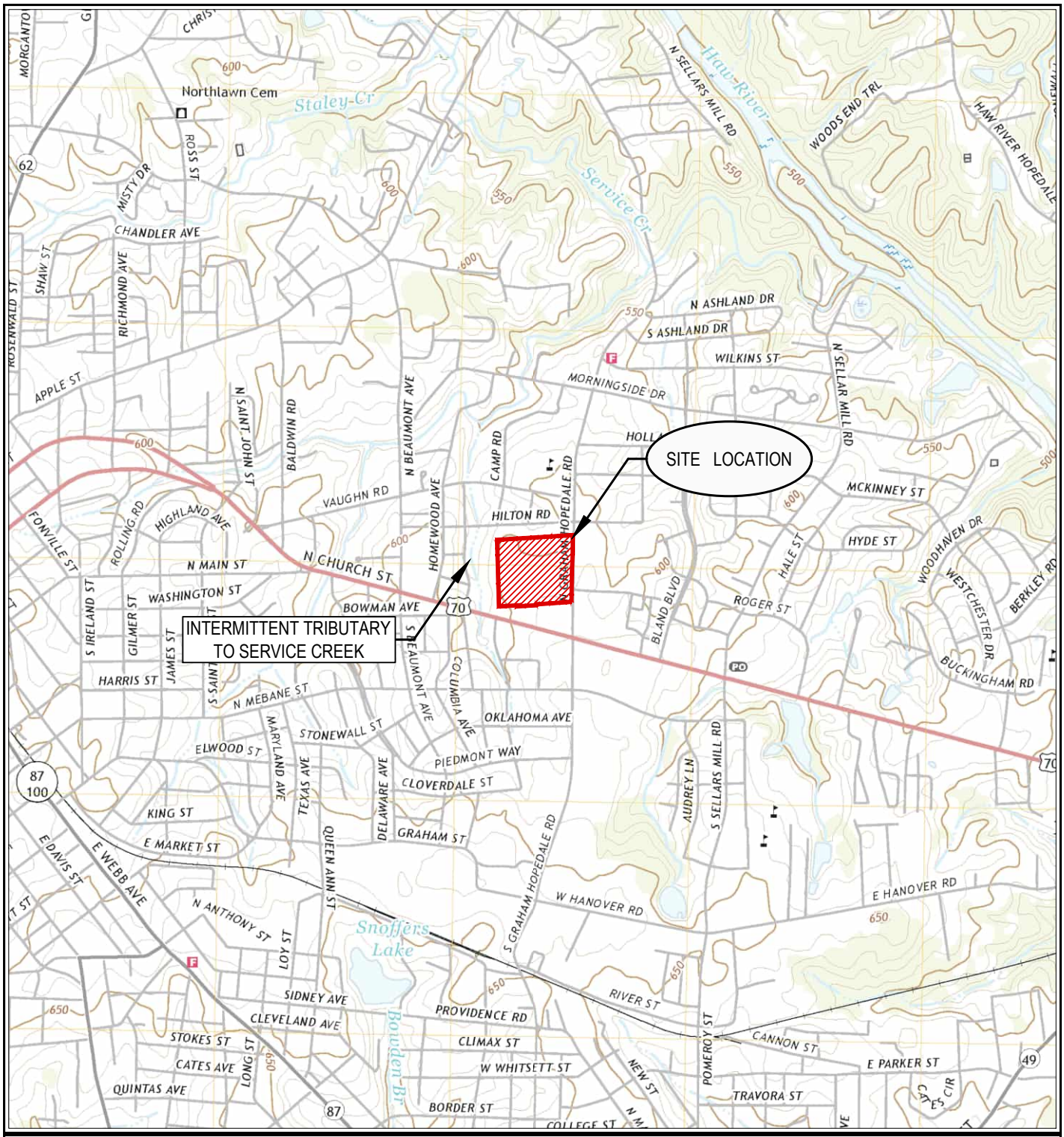
Notes:
Protection of Groundwater PSRG = Preliminary Soil Remediation Goal (PSRG) based on the protection of leaching to groundwater.
Residential PSRG = PSRG for the protection of human health based on residential exposure scenarios.
Industrial/Commercial PSRG = PSRG for the protection of human health based on commercial / industrial exposure scenarios.
USEPA = United States Environmental Protection Agency.
Only constituents that were detected above the Laboratory Limit of Quantitation (LoQ) are shown.
mg/kg = milligrams per kilogram
NE = Standard not established
NA = Not Analyzed
Validation qualifiers included:
Non detects shown as < LoQ.
Bold = values detected at >LoQ.
J = Qualified as estimated.
J+ = Qualified as estimated, with the estimated value biased high.
Shaded values (if present) exceeded the referenced standard.
Duplicate sample WAP-DUP-20240308 collected from WAP-SS-01 at 4 feet depth.

TABLE 8 - SUMMARY OF ANALYTICAL RESULTS FROM SOURCE AREA MONITORING WELLS

		Location:	MW-143	DUP-GW-20240410	MW-144	MW-145	MW-146	MW-147	MW-148	DUP-GW-20240508
		Date:	4/10/2024	4/10/2024	4/10/2024	4/10/2024	4/10/2024	5/8/2024	5/8/2024	5/8/2024
Analyte	Unit	2L Standard								
FIELD MEASUREMENTS										
Conductivity	µmhos/cm	NE	603.1	NA	211.2	342.9	796	176.8	325.1	NA
Dissolved Oxygen	mg/l	NE	0.22	NA	0.96	4.58	7.62	-0.01	-0.01	NA
Oxidation-Reduction Potential	mV	NE	-73.2	NA	-77.1	-25.2	-44.2	-47.7	-50.8	NA
pH	pH	NE	7.94	NA	6.28	6.14	6.82	7.69	7.73	NA
Temperature	C	NE	13.6	NA	16.1	19.6	17.9	25.5	24.8	NA
Turbidity	NTU	NE	67.6	NA	NA	NA	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS VIA USEPA 8260D										
1,1,2-Trichloroethane	µg/L	0.6	< 10	< 10	4.67	11.0	< 1	< 2	< 2	< 2
1,1-Dichloroethane	µg/L	6	< 10	< 10	< 2	4.14 J	< 1	< 2	< 2	< 2
1,1-Dichloroethene	µg/L	3,501	< 10	< 10	< 2	3.92 J	< 1	< 2	< 2	< 2
1,2-Dichloroethane	µg/L	0.4	< 10	< 10	< 2	22.7	< 1	< 2	< 2	< 2
Acetone	µg/L	6,000	< 100	62.9 J	< 20	26.7 J	< 10	< 25	< 25	< 25
Benzene	µg/L	1	< 10	< 10	< 2	122	< 1	0.28 J	< 2	< 2
Bromodichloromethane	µg/L	0.6	< 10	< 10	< 2	< 5	< 1	< 2	< 2	< 2
Carbon Disulfide	µg/L	700	< 20	< 20	< 4	< 10	< 2	0.72 JQ	< 2	< 2
Chloroform	µg/L	70	< 10	< 10	< 2	3.19 J	0.731 J	0.27 J	4.6	3.6
Chloromethane	µg/L	3	7.50 J	< 10	< 2	4.43 J	< 1	< 2.5	< 2.5	< 2.5
Cis-1,2-Dichloroethene	µg/L	70	22.4	33.1	109	774	1.01	1.3 J	< 2	< 2
Diisopropy Ether	µg/L	70	< 100	< 100	< 20	47.3 J	< 10	< 10	< 10	< 10
Ethylbenzene	µg/L	600	< 10	< 10	< 2	< 5	0.299 J	< 1	< 1	< 1
Isopropylbenzene	µg/L	70	< 10	< 10	< 2	1.58 J	< 1	< 2	< 2	< 2
Methyl Tert-Butyl Ether (MTBE)	µg/L	20	< 50	< 50	< 10	955	< 5	1.5 J	< 5	< 5
n-Butylbenzene	µg/L	70	< 10	< 10	< 2	< 5	0.616 J	< 2.5	< 2.5	< 2.5
Tetrachloroethene	µg/L	0.7	6.31 J	17.4	245	534	2.55	< 2	0.40 J	< 2
Trans-1,2-Dichloroethene	µg/L	100	< 10	< 10	< 2	7.29	< 1	< 2	< 2	< 2
Trichloroethene	µg/L	3	1,850	1,850	375	935	3.29	< 1	0.30 J	0.57 J
Trichlorofluoromethane	µg/L	2,000	< 10	< 10	< 2	86.3	< 1	< 2Q	< 2	< 2
Vinyl Chloride	µg/L	0.03	11.8	13.6	< 2	< 5	1.06	< 2	< 2	< 2

Notes:
2L Standard = Subtitle 15A North Carolina Administrative Code 02L Groundwater Quality Standards
NE = 2L Standard not established.
µmhos/cm = micromhos per centimeter
mg/L = milligrams per liter
mV = millivolt
C = celcius
NTU = nephelometric turbidity unit
µg/L = Microgram per liter.
NA = Not analyzed.
Validation qualifiers included:
Non detects shown as < LoQ.
Bold = values detected at >LoQ.
Q = Qualified due to failure of one or more quality control criteria.
J = Qualified as estimated.
Shaded values (if present) exceeded the referenced standard.
Duplicate sample DUP-GW-20240410 collected from MW-143.
Duplicate sample DUP-GW-20240508 collected from MW-148.

Figures





QUADRANGLE LOCATION

Scale 1:24000

0 1/2 1 MILE

1000 0 1000 2000 3000 FEET

(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAP, BURLINGTON (2019), NORTH CAROLINA)

CHECK BY	DRM
DRAWN BY	OS
DATE	7-10-24
SCALE	AS SHOWN
CAD NO.	70237017A
PRJ NO.	70237017

SITE LOCATION MAP
SOURCE AREA EXCAVATION
INTERIM REMEDIAL ACTION
TARHEEL ARMY MISSILE PLANT
204 N. GRAHAM-HOPEDALE ROAD
BURLINGTON, ALMANCE COUNTY, NORTH CAROLINA

Terracon

FIGURE

1



LEGEND

- SITE BOUNDARY
- MONITORING WELL (SAPROLITE)
- MONITORING WELL (BEDROCK)
- MONITORING WELL (ABANDONED, DESTROYED, NOT LOCATED)
- NEW MONITORING WELL (SAPROLITE)
- NEW MONITORING WELL (BEDROCK)
- 14 BUILDING NUMBER
- STORM SEWER
- DRAINAGE DITCH/STREAM
- SOURCE AREA
- TUNNELS

AERIAL SOURCE: ALAMANCE COUNTY GIS, 2008 ORTHOPHOTO

SOURCE OF FORMER SOURCE AREAS:

ROY F. WESTON, INC., 1993, COMPREHENSIVE SITE ASSESSMENT SUBSURFACE SOIL AND GROUNDWATER INVESTIGATION AT THE WASTE ACCUMULATION PAD AND UNDERGROUND STORAGE TANK AREAS, TARHEEL ARMY MISSILE PLANT, BURLINGTON, NORTH CAROLINA, AUGUST 26.

PIKA–ARCADIS U.S., INC., 2020. DRAFT REMEDIAL INVESTIGATION REPORT, REVISION 0. TARHEEL ARMY MISSILE PLANT, BURLINGTON, NORTH CAROLINA. CONTRACT NO. W91ZLK–13–D–0009, TASK ORDER 0012. APRIL.

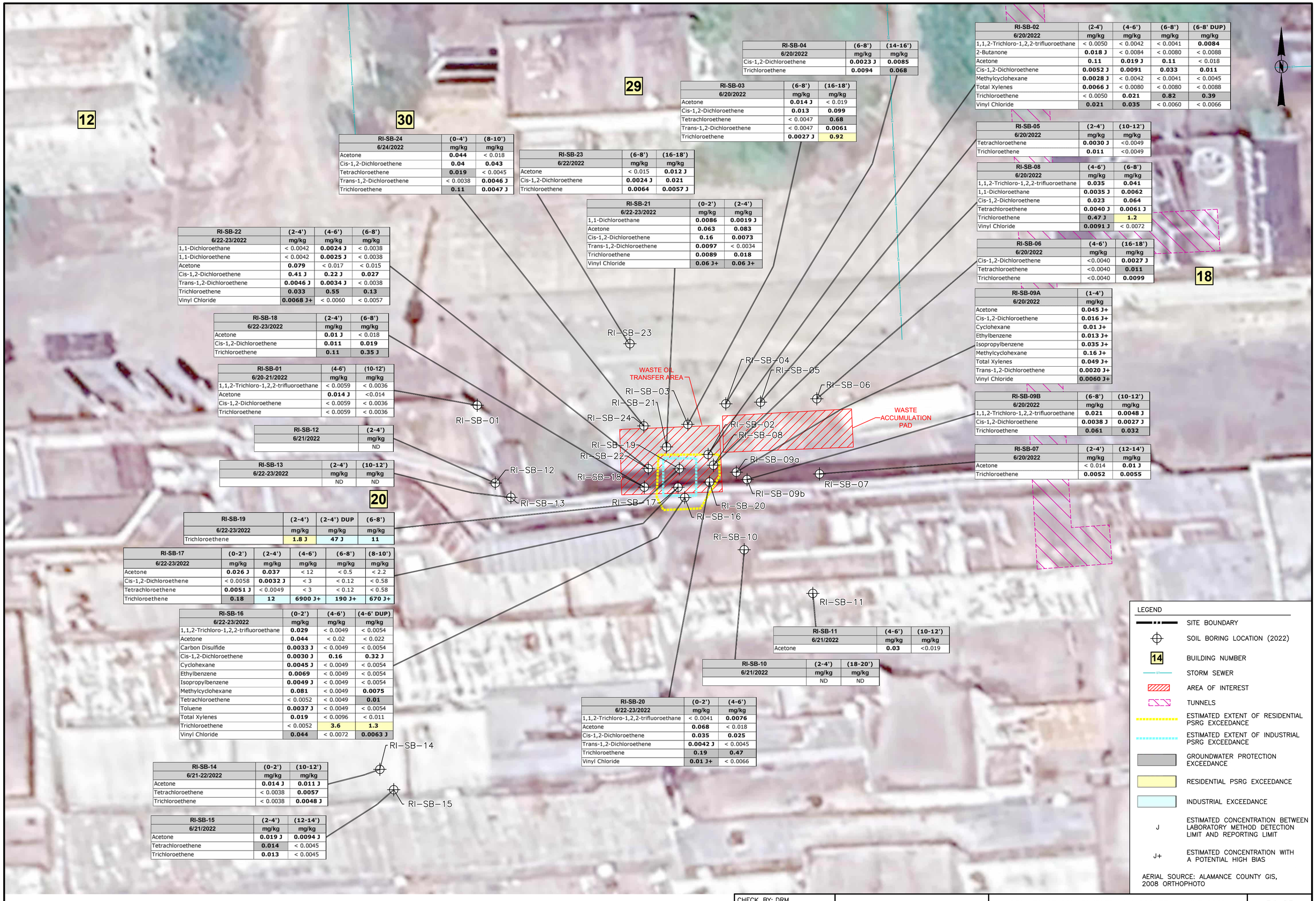
SCALE IN FEET
0 50 100 200

CHECK BY:	DRM
DRAWN BY:	OS
DATE:	7–12–24
SCALE:	AS SHOWN
CAD NO.:	70237017B
PRJ NO.:	70237017

Terracon
2401 BRENTWOOD ROAD, SUITE 107 RALEIGH, NC 27604
PHONE: (919) 873–2211 FAX: (919) 873–9555

SITE DIAGRAM
SOURCE AREA EXCAVATION
INTERIM REMEDIAL ACTION
TARHEEL army MISSILE PLANT
204 N. GRAHAM–HOPEDALE ROAD
BURLINGTON, ALAMANCE COUNTY, NORTH CAROLINA

FIGURE
2



RI-SB-04	(6-8')	(14-16')
6/20/2022	mg/kg	mg/kg
Cis-1,2-Dichloroethene	**0.0023 J**	**0.0085**
Trichloroethene	**0.0094**	**0.068**

RI-SB-03	(6-8')	(16-18')
6/20/2022	mg/kg	mg/kg
Acetone	**0.014 J**	< 0.019
Cis-1,2-Dichloroethene	**0.013**	**0.099**
Tetrachloroethene	< 0.0047	**0.68**
Trans-1,2-Dichloroethene	< 0.0047	**0.0061**
Trichloroethene	**0.0027 J**	**0.92**

RI-SB-02	(2-4')	(4-6')	(6-8')	(6-8' DUP)
6/20/2022	mg/kg	mg/kg	mg/kg	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.0050	< 0.0042	< 0.0041	**0.0084**
2-Butanone	**0.018 J**	< 0.0084	< 0.0080	< 0.0088
Acetone	**0.11**	**0.019 J**	**0.11**	< 0.018
Cis-1,2-Dichloroethene	**0.0052 J**	**0.0091**	**0.033**	**0.011**
Methylcyclohexane	**0.0028 J**	< 0.0042	< 0.0041	< 0.0045
Total Xylenes	**0.0066 J**	< 0.0080	< 0.0080	< 0.0088
Trichloroethene	< 0.0050	**0.021**	**0.82**	**0.39**
Vinyl Chloride	**0.021**	**0.035**	< 0.0060	< 0.0066

RI-SB-05	(2-4')	(10-12')
6/20/2022	mg/kg	mg/kg
Tetrachloroethene	**0.0030 J**	<0.0049
Trichloroethene	**0.011**	<0.0049

RI-SB-08	(4-6')	(6-8')
6/20/2022	mg/kg	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.035**	**0.041**
1,1-Dichloroethane	**0.0035 J**	**0.0062**
Cis-1,2-Dichloroethene	**0.023**	**0.064**
Tetrachloroethene	**0.0040 J**	**0.0061 J**
Trichloroethene	**0.47 J**	**1.2**
Vinyl Chloride	**0.0091 J**	< 0.0072

RI-SB-06	(4-6')	(16-18')
6/20/2022	mg/kg	mg/kg
Cis-1,2-Dichloroethene	<0.0040	**0.0027 J**
Tetrachloroethene	<0.0040	**0.011**
Trichloroethene	<0.0040	**0.0099**

RI-SB-09A	(1-4')
6/20/2022	mg/kg
Acetone	**0.045 J+**
Cis-1,2-Dichloroethene	**0.016 J+**
Cyclohexane	**0.01 J+**
Ethylbenzene	**0.013 J+**
Isopropylbenzene	**0.035 J+**
Methylcyclohexane	**0.16 J+**
Total Xylenes	**0.049 J+**
Trans-1,2-Dichloroethene	**0.0020 J+**
Vinyl Chloride	**0.0060 J+**

RI-SB-09B	(6-8')	(10-12')
6/20/2022	mg/kg	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.021**	**0.0048 J**
Cis-1,2-Dichloroethene	**0.0038 J**	**0.0027 J**
Trichloroethene	**0.061**	**0.032**

RI-SB-07	(2-4')	(12-14')
6/20/2022	mg/kg	mg/kg
Acetone	< 0.014	**0.01 J**
Trichloroethene	**0.0052**	**0.0055**

RI-SB-24	(0-4')	(8-10')
6/24/2022	mg/kg	mg/kg
Acetone	**0.044**	< 0.018
Cis-1,2-Dichloroethene	**0.04**	**0.043**
Tetrachloroethene	**0.019**	< 0.0045
Trans-1,2-Dichloroethene	< 0.0038	**0.0046 J**
Trichloroethene	**0.11**	**0.0047 J**

RI-SB-23	(6-8')	(16-18')
6/22/2022	mg/kg	mg/kg
Acetone	< 0.015	**0.012 J**
Cis-1,2-Dichloroethene	**0.0024 J**	**0.021**
Trichloroethene	**0.0064**	**0.0057 J**

RI-SB-21	(0-2')	(2-4')
6/22-23/2022	mg/kg	mg/kg
1,1-Dichloroethane	**0.0086**	**0.0019 J**
Acetone	**0.063**	**0.083**
Cis-1,2-Dichloroethene	**0.16**	**0.0073**
Trans-1,2-Dichloroethene	**0.0097**	< 0.0034
Trichloroethene	**0.0089**	**0.018**
Vinyl Chloride	**0.06 J+**	**0.06 J+**

RI-SB-22	(2-4')	(4-6')	(6-8')
6/22-23/2022	mg/kg	mg/kg	mg/kg
1,1-Dichloroethane	< 0.0042	**0.0024 J**	< 0.0038
1,1-Dichloroethene	< 0.0042	**0.0025 J**	< 0.0038
Acetone	**0.079**	< 0.017	< 0.015
Cis-1,2-Dichloroethene	**0.41 J**	**0.22 J**	**0.027**
Trans-1,2-Dichloroethene	**0.0046 J**	**0.0034 J**	< 0.0038
Trichloroethene	**0.033**	**0.55**	**0.13**
Vinyl Chloride	**0.0068 J+**	< 0.0060	< 0.0057

RI-SB-18	(2-4')	(6-8')
6/22-23/2022	mg/kg	mg/kg
Acetone	**0.01 J**	< 0.018
Cis-1,2-Dichloroethene	**0.011**	**0.019**
Trichloroethene	**0.11**	**0.35 J**

RI-SB-01	(4-6')	(10-12')
6/20-21/2022	mg/kg	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.0059	< 0.0036
Acetone	**0.014 J**	<0.014
Cis-1,2-Dichloroethene	< 0.0059	< 0.0036
Trichloroethene	< 0.0059	< 0.0036

RI-SB-12	(2-4')
6/21/2022	mg/kg
	ND

RI-SB-13	(2-4')	(10-12')
6/22-23/2022	mg/kg	mg/kg
	ND	ND

RI-SB-19	(2-4')	(2-4') DUP	(6-8')
6/22-23/2022	mg/kg	mg/kg	mg/kg
Trichloroethene	**1.8 J**	**47 J**	**11**

RI-SB-17	(0-2')	(2-4')	(4-6')	(6-8')	(8-10')
6/22-23/2022	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acetone	**0.026 J**	**0.037**	< 12	< 0.5	< 2.2
Cis-1,2-Dichloroethene	< 0.0058	**0.0032 J**	< 3	< 0.12	< 0.58
Tetrachloroethene	**0.0051 J**	< 0.0049	< 3	< 0.12	< 0.58
Trichloroethene	**0.18**	**12**	**6900 J+**	**190 J+**	**670 J+**

RI-SB-16	(0-2')	(4-6')	(4-6' DUP)
6/22-23/2022	mg/kg	mg/kg	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.029**	< 0.0049	< 0.0054
Acetone	**0.044**	< 0.02	< 0.022
Carbon Disulfide	**0.0033 J**	< 0.0049	< 0.0054
Cis-1,2-Dichloroethene	**0.0030 J**	**0.16**	**0.32 J**
Cyclohexane	**0.0045 J**	< 0.0049	< 0.0054
Ethylbenzene	**0.0069**	< 0.0049	< 0.0054
Isopropylbenzene	**0.0049 J**	< 0.0049	< 0.0054
Methylcyclohexane	**0.081**	< 0.0049	**0.0075**
Tetrachloroethene	< 0.0052	< 0.0049	**0.01**
Toluene	**0.0037 J**	< 0.0049	< 0.0054
Total Xylenes	**0.019**	< 0.0096	< 0.011
Trichloroethene	< 0.0052	**3.6**	**1.3**
Vinyl Chloride	**0.044**	< 0.0072	**0.0063 J**

RI-SB-14	(0-2')	(10-12')
6/21-22/2022	mg/kg	mg/kg
Acetone	**0.014 J**	**0.011 J**
Tetrachloroethene	< 0.0038	**0.0057**
Trichloroethene	< 0.0038	**0.0048 J**

RI-SB-15	(2-4')	(12-14')
6/21/2022	mg/kg	mg/kg
Acetone	**0.019 J**	**0.0094 J**
Tetrachloroethene	**0.014**	< 0.0045
Trichloroethene	**0.013**	< 0.0045

RI-SB-11	(4-6')	(10-12')
6/21/2022	mg/kg	mg/kg
Acetone	**0.03**	<0.019

RI-SB-10	(2-4')	(18-20')
6/21/2022	mg/kg	mg/kg
	ND	ND

RI-SB-20	(0-2')	(4-6')
6/22-23/2022	mg/kg	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.0041	**0.0076**
Acetone	**0.068**	< 0.018
Cis-1,2-Dichloroethene	**0.035**	**0.025**
Trans-1,2-Dichloroethene	**0.0042 J**	< 0.0045
Trichloroethene	**0.19**	**0.47**
Vinyl Chloride	**0.01 J+**	< 0.0066

LEGEND

- SITE BOUNDARY
- SOIL BORING LOCATION (2022)
- 14 BUILDING NUMBER
- ST STORM SEWER
- AREA OF INTEREST
- TUNNELS
- ESTIMATED EXTENT OF RESIDENTIAL PSRG EXCEEDANCE
- ESTIMATED EXTENT OF INDUSTRIAL PSRG EXCEEDANCE
- GROUNDWATER PROTECTION EXCEEDANCE
- RESIDENTIAL PSRG EXCEEDANCE
- INDUSTRIAL EXCEEDANCE
- J ESTIMATED CONCENTRATION BETWEEN LABORATORY METHOD DETECTION LIMIT AND REPORTING LIMIT
- J+ ESTIMATED CONCENTRATION WITH A POTENTIAL HIGH BIAS

AERIAL SOURCE: ALAMANCE COUNTY GIS, 2008 ORTHOPHOTO

SOURCE OF FORMER SOURCE AREAS:

PIKA–ARCADIS U.S., INC., 2020. DRAFT REMEDIAL INVESTIGATION REPORT, REVISION 0. TARHEEL ARMY MISSILE PLANT, BURLINGTON, NORTH CAROLINA. CONTRACT NO. W91ZLK–13–D–0009, TASK ORDER 0012. APRIL.

SCALE IN FEET
0 10 20 40

CHECK BY: DRM
DRAWN BY: OS
DATE: 7–11–24
SCALE: AS SHOWN
CAD NO.: 70237017C
PRJ NO.: 70237017

Terracon
2401 BRENTWOOD ROAD, SUITE 107 RALEIGH, NC 27604
PHONE: (919) 873–2211 FAX: (919) 873–9555

RESULTS OF SOIL SAMPLES IN SAPROLITE – JUNE 2022
SOURCE AREA EXCAVATION
INTERIM REMEDIAL ACTION
TARHEEL ARMY MISSILE PLANT
204 N. GRAHAM–HOPEDALE ROAD
BURLINGTON, ALAMANCE COUNTY, NORTH CAROLINA

FIGURE
3



LD-Sewer	2/15/2024
Analyte	Result (ug/L)
Chloroform	0.569 J+
Cis-1,2-Dichloroethene	1.59
Tetrachloroethene	0.842 J+
Trichloroethene	3.38

LEGEND

- NEW MONITORING WELL (SAPROLITE)
- NEW MONITORING WELL (BEDROCK)
- MONITORING WELL (SAPROLITE)
- MONITORING WELL (BEDROCK)
- MONITORING WELL (ABANDONED, DESTROYED, NOT LOCATED)
- 14 BUILDING NUMBER
- ST STORMWATER PIPE
- INLET GRATE
- STORMWATER MANWAY
- SS SANITARY SEWER PIPE
- SANITARY MANWAY
- EXCAVATION EXTENT
- SOURCE AREA
- TUNNELS
- J THE REPORTED VALUE IS AN ESTIMATE LESS THAN THE LABORATORY REPORTING LIMIT.
- J+ ESTIMATED CONCENTRATION WITH A POTENTIAL HIGH BIAS
- EXCEEDS 2B GROUNDWATER STANDARD

SCALE IN FEET
0 10 20 40

CHECK BY	ECD
DRAWN BY	OS
DATE	8–14–24
SCALE	AS SHOWN
CAD NO.	70237017H2
PRJ NO.	70237017

WATER SAMPLE RESULTS FROM SANITARY SEWER
SOURCE AREA EXCAVATION
INTERIM REMEDIAL ACTION
204 N. GRAHAM–HOPEDALE ROAD
BURLINGTON, ALAMANCE COUNTY, NORTH CAROLINA

Terracon
2401 BRENTWOOD ROAD, SUITE 107
RALEIGH, NC 27604
PHONE: (919) 873–2211

FIGURE
4



WOTA-SS-04	4 ft	8 ft
3/5/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00417	< 0.00487
Trichloroethene	**0.00417**	**0.0797**

WOTA-SS-05	4 ft	8 ft
3/5/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00473	< 0.00503
Trichloroethene	**0.00231 J**	< 0.00503

WOTA-SS-06	4 ft	8 ft
3/5/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00485	< 0.00725
Trichloroethene	**0.00508**	**0.00717 J**

WOTA-SS-07	4 ft	8 ft
3/5/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00397	< 0.00478
Trichloroethene	**0.0583**	**0.0555**

WOTA-BS-05	14 ft
3/5/2024	Result (mg/kg)
Tetrachloroethene	< 0.0047
Trichloroethene	**0.0238**

WOTA-SS-08	4 ft	8 ft
3/5/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00578	< 0.00461
Trichloroethene	**0.00418 J+**	**0.0984**

WOTA-SS-09a	4 ft
2/28/2024	Result (mg/kg)
Tetrachloroethene	< 0.00529
Trichloroethene	**0.00369 J**

WOTA-BS-06	14 ft
3/5/2024	Result (mg/kg)
Tetrachloroethene	< 0.00412
Trichloroethene	**0.00257 J+**

WOTA-SS-09	8 ft
2/28/2024	Result (mg/kg)
Tetrachloroethene	< 0.00435
Trichloroethene	**3.26 J+**

WOTA-SS-09b	4 ft
2/28/2024	Result (mg/kg)
Tetrachloroethene	< 0.00437
Trichloroethene	**0.016**

WOTA-BS-01	14 ft
2/27/2024	Result (mg/kg)
Tetrachloroethene	<0.158
Trichloroethene	**0.498 J+**

WOTA-BS-02	14 ft
2/27/2024	Result (mg/kg)
Tetrachloroethene	< 0.182
Trichloroethene	**1.35 J+**

WOTA-SS-01	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00423	< 0.00441
Trichloroethene	**0.0099**	**11.9**

WOTA-SS-02	4 ft	DUP (4 ft)	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.436	< 0.594	**0.00752**
Trichloroethene	**153**	**102**	**13**

WOTA-BS-04	14 ft
3/5/2024	Result (mg/kg)
Tetrachloroethene	< 0.0052
Trichloroethene	**0.0831**

WOTA-SS-03	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00483	< 0.0056
Trichloroethene	**0.0411**	**0.691 J+**

WOTA-BS-03	14 ft
2/27/2024	Result (mg/kg)
Tetrachloroethene	< 0.00501
Trichloroethene	**3.34**

WAP-SS-01	4 ft	DUP (4 ft)	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	**1.26 J+**	**13.3**	**0.0173**
Trichloroethene	**0.0525**	< 0.52	< 0.0048

WAP-SS-02	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	**0.0531**	**0.0149**
Trichloroethene	**0.00492 J**	**0.00333 J**

WAP-SS-03	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	< 0.00538	< 0.00448
Trichloroethene	< 0.00538	**0.00259 J+**

WAP-SS-04	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	**0.0305 J+**	**0.0395**
Trichloroethene	**0.00446 J+**	**0.00453 J**

WAP-BS-02	12 ft
3/8/2024	Result (mg/kg)
Tetrachloroethene	**0.1330**
Trichloroethene	**0.0058**

WAP-BS-01	12 ft
3/8/2024	Result (mg/kg)
Tetrachloroethene	**0.0300**
Trichloroethene	**0.00343 J**

WAP-SS-06	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	**0.0114**	**0.00583 J+**
Trichloroethene	**0.00325 J**	**0.00308 J+**

WAP-SS-05	4 ft	8 ft
2/28/2024	Result (mg/kg)	Result (mg/kg)
Tetrachloroethene	**0.00423**	**0.00314 J+**
Trichloroethene	**0.00256 J**	**0.00338 J+**

LEGEND

- EXCAVATION CONFIRMATION SAMPLES
- EXCAVATION EXTENT
- SOURCE AREA
- TUNNELS
- STORMWATER PIPE (ST)
- INLET GRATE
- STORMWATER MANWAY
- SANITARY SEWER PIPE (SS)
- SANITARY MANWAY

J — ESTIMATED CONCENTRATION BETWEEN LABORATORY METHOD DETECTION AND REPORTING LIMIT

J+ — QUALIFIED AS ESTIMATED, WITH THE ESTIMATED VALUE BIASED HIGH.

- GROUNDWATER PROTECTION PSRG EXCEEDANCE
- RESIDENTIAL PSRG EXCEEDANCE
- INDUSTRIAL PSRG EXCEEDANCE

SCALE IN FEET
0 10 20 40

CHECK BY	ECD
DRAWN BY	OS
DATE	8-14-24
SCALE	AS SHOWN
CAD NO.	70237017H1
PRJ NO.	70237017

EXCAVATION CONFIRMATION SOIL SAMPLE MAP
WITH PCE AND TCE RESULTS
SOURCE AREA EXCAVATION
INTERIM REMEDIAL ACTION
TARHEEL ARMY MISSILE PLANT
204 N. GRAHAM-HOPEDALE ROAD
BURLINGTON, ALAMANCE COUNTY, NORTH CAROLINA

Terracon
2401 BRENTWOOD ROAD, SUITE 107
RALEIGH, NC 27604
PHONE: (919) 873-2211

FIGURE
5



MW-145	4/10/2024
Analyte	Result (ug/L)
1,1,2-Trichloroethane	11
1,1-Dichloroethane	4.14 J
1,1-Dichloroethene	3.92 J
1,2-Dichloroethane	22.7
Acetone	26.7 J
Benzene	122
Chloroform	3.19 J
Chloromethane	4.43 J
Cis-1,2-Dichloroethene	774
Diisopropy Ether	47.3 J
Isopropylbenzene	1.58 J
Methyl Tert-Butyl Ether (MTBE)	955
Tetrachloroethene	534
Trans-1,2-Dichloroethene	7.29
Trichloroethene	935
Trichlorofluoromethane	86.3

MW-146	4/10/2024
Analyte	Result (ug/L)
Chloroform	0.731 J
Cis-1,2-Dichloroethene	1.01
Ethylbenzene	0.299 J
n-Butylbenzene	0.616 J
Tetrachloroethene	2.55
Trichloroethene	3.29
Vinyl Chloride	1.06

MW-148	5/8/2024	DUP
Analyte	Result (ug/L)	
Chloroform	4.6	3.6
Tetrachloroethene	0.40 J	< 2
Trichloroethene	0.30 J	0.57 J

MW-147	5/8/2024
Analyte	Result (ug/L)
Benzene	0.28 J
Carbon Disulfide	0.72 JQ
Chloroform	0.27 J
Cis-1,2-Dichloroethene	1.3 J
Methyl Tert-Butyl Ether (MTBE)	1.5 J

MW-144	4/10/2024
Analyte	Result (ug/L)
1,1,2-Trichloroethane	4.67
Cis-1,2-Dichloroethene	109
Tetrachloroethene	245
Trichloroethene	375

MW-143	4/10/2024	DUP
Analyte	Result (ug/L)	
Acetone	< 100	62.9 J
Chloromethane	7.50 J	< 10
Cis-1,2-Dichloroethene	22.4	33.1
Tetrachloroethene	6.31 J	17.4
Trichloroethene	1850	1850
Vinyl Chloride	11.8	13.6

LEGEND

- SITE BOUNDARY
- NEW MONITORING WELL (SAPROLITE)
- NEW MONITORING WELL (BEDROCK)
- MONITORING WELL (SAPROLITE)
- MONITORING WELL (BEDROCK)
- MONITORING WELL (ABANDONED, DESTROYED, NOT LOCATED)
- 14 BUILDING NUMBER
- EXCAVATION EXTENT
- DRAINAGE DITCH/STREAM
- SOURCE AREA
- TUNNELS
- J — THE REPORTED VALUE IS AN ESTIMATE LESS THAN THE LABORATORY REPORTING LIMIT.
- Q — ONE OR MORE QUALITY CONTROL CRITERIA FAILED
- EXCEEDS 2L GROUNDWATER STANDARD

SCALE IN FEET
0 10 20 40

CHECK BY	ECD
DRAWN BY	OS
DATE	8–14–24
SCALE	AS SHOWN
CAD NO.	70237017G
PRJ NO.	70237017

SAMPLE RESULTS FROM SOURCE AREA MONITORING WELLS
SOURCE AREA EXCAVATION
INTERIM REMEDIAL ACTION
TARHEEL ARMY MISSILE PLANT
204 N. GRAHAM–HOPEDALE ROAD
BURLINGTON, ALAMANCE COUNTY, NORTH CAROLINA

Terracon
2401 BRENTWOOD ROAD, SUITE 107
RALEIGH, NC 27604
PHONE: (919) 873–2211

FIGURE
6

Appendix A
Well Abandonment Record (NCDEQ Form GW-30)

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Patrick Beccaria

Well Contractor Name (or well owner personally abandoning well on his/her property)

4543

NC Well Contractor Certification Number

SR&R Environmental

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
■Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 02/16/2024

5a. Well location:

Central Park Burlington LLC — Facility/Owner Name

NC7210020544 — Facility ID# (if applicable)

204 N Graham-Hopedale Rd, Burlington, NC 27217

Physical Address, City, and Zip

Alamance — County

139757 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.098065 **N** 79.407746 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: MW-120

6b. Total well depth: 36.5 **(ft.)**

6c. Borehole diameter: 12 / 5.875 **(in.)**

6d. Water level below ground surface: 11 **(ft.)**

6e. Outer casing length (if known): 25 **(ft.)**

6f. Inner casing/tubing length (if known): 36.5 **(ft.)**

6g. Screen length (if known): 5 **(ft.)**

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): 4.1 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	■ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

50 lbs bentonite chips

20 lbs neat cement

7g. Provide a brief description of the abandonment procedure:

Gravity pour and hydrate bentonite chips from 36.5' to 3'

Gravity pour neat cement grout from 3' to surface

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

2/22/2024 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

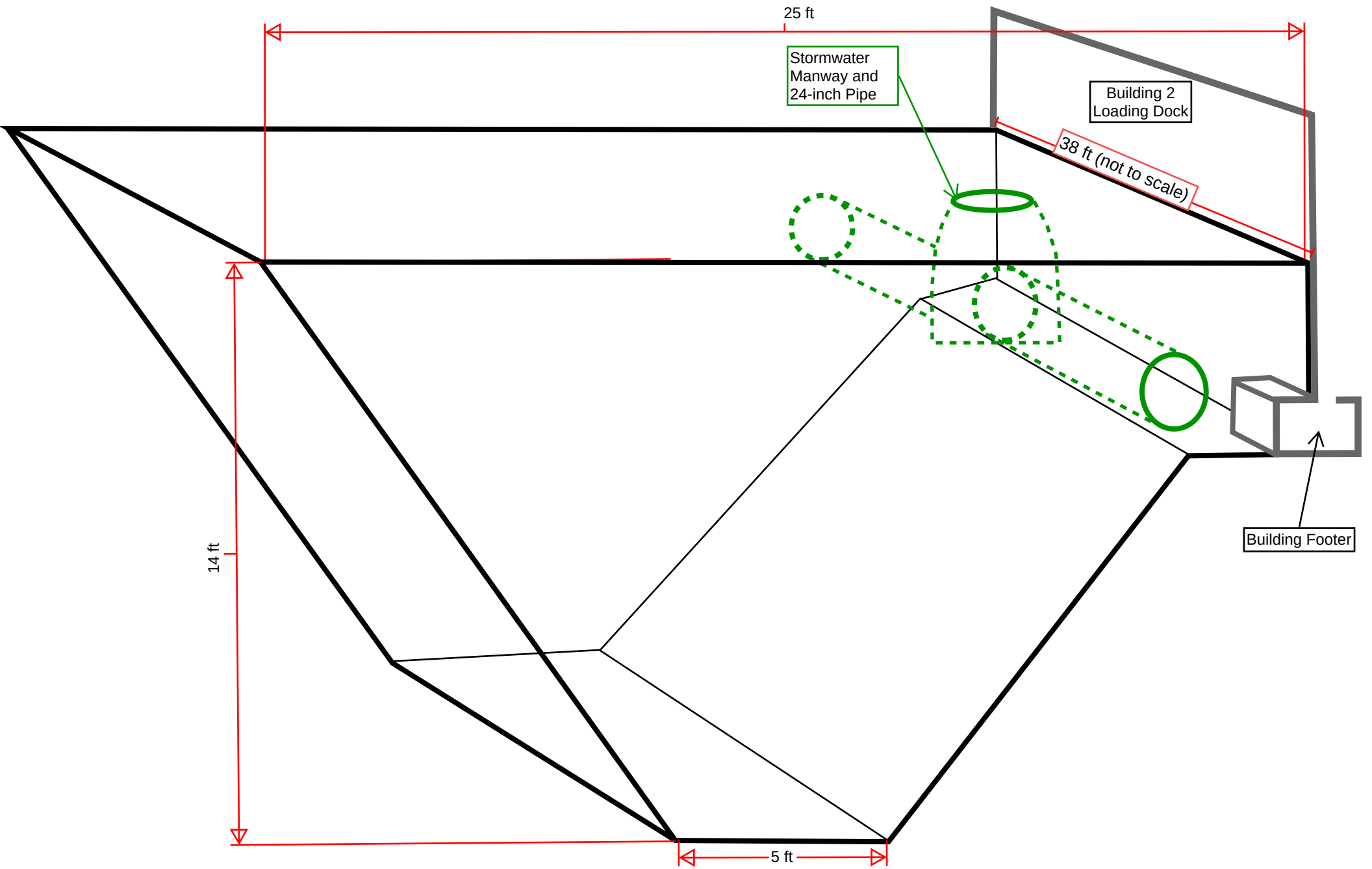
Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

Appendix B
Excavation Cross-Section Diagrams



Estimated In-Place Volume of Excavation: **300 cubic yards**

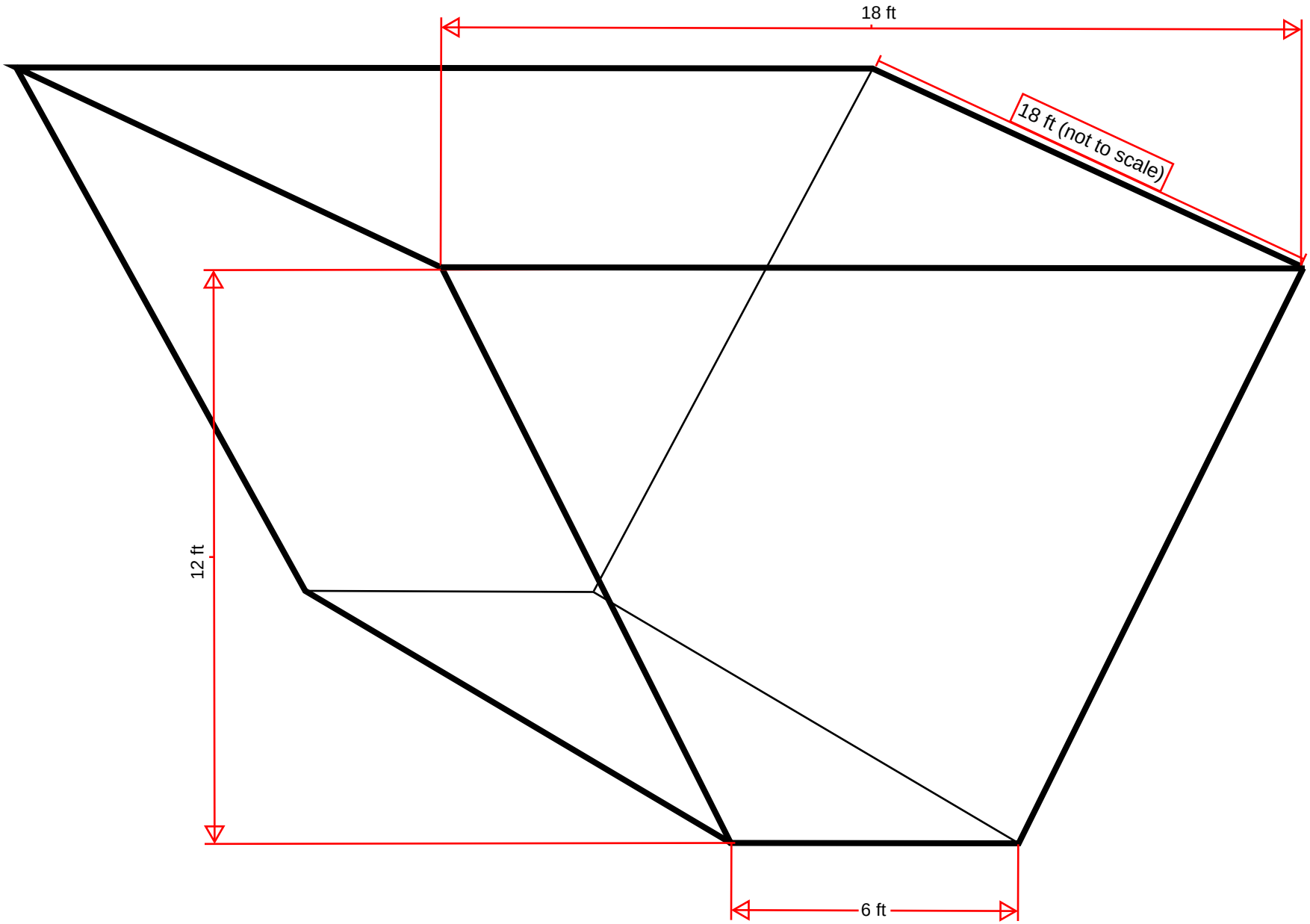
3 ft

1 inch = 3 feet

Waste Oil Transfer Area Excavation Cross Section Diagram

Source Area Excavation
Interim Remedial Action
Tarheel Army Missile Plant
204 N. Graham-Hopedale Rd
Burlington, Alamance County, North Carolina

terracon



Estimated In-Place Volume of Excavation: **100 cubic yards**

3 ft

1 inch = 3 feet

Waste Accumulation Pad Excavation Cross Section Diagram

Source Area Excavation
Interim Remedial Action
Tarheel Army Missile Plant
204 N. Graham-Hopedale Rd
Burlington, Alamance County, North Carolina

terracon

Appendix C
Monitoring Well Lithologic Logs, Well Construction Records, and Sample Logs

WELL LOG NO. MW-143

PROJECT: Tarheel Army Missile Plant

CLIENT: USACE - Savannah District
Savannah, GA

SITE: 204 N. Graham-Hopedale Rd
Burlington, North Carolina

LOCATION See Figure 6

INSTALLATION DETAILS

Well Completion:
Surface Mount

GRAPHIC LOG	DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	SPT N-VALUE	OVA/PID (ppm)
		FILL - FILL SCREENINGS AND STONE						
	15.0							
		SILT (ML), with clay, brown and light brown, chlorinated solvent odor observed, saturated						
	23.0						50/1	
		Boring Terminated at 23 Feet						

5
10
15
20

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
4.25-inch ID HSA

Abandonment Method:

Notes:
SV-14 installed as permanent flush-mount soil vapor point on 2/29/2024.

WATER LEVEL OBSERVATIONS

▽ *Water level measured on 4/10/2024.*

Terracon
2401 Brentwood Rd Ste 107
Raleigh, NC

Well Started: 03-13-2024
Well Completed: 03-13-2024
Drill Rig: Guspech Brute
Driller: SAEDACCO
Project No.: 70237017

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 70237017_IRA_MW BORING LOGS.GPJ TERRACON_DATATEMPLATE.GDT 6/3/24

WELL LOG NO. MW-144

PROJECT: Tarheel Army Missile Plant

CLIENT: USACE - Savannah District
Savannah, GA

SITE: 204 N. Graham-Hopedale Rd
Burlington, North Carolina

LOCATION See Figure 6

INSTALLATION DETAILS
Well Completion:
Surface Mount

DEPTH	MATERIAL DESCRIPTION
0.0	**FILL - FILL SCREENINGS AND STONE**
14.0	**SILT (ML)**, with clay, brown and light brown, odor and staining not observed, moist
19.0	**CLAY (CL)**, with silt, brown and light brown, odor and staining not observed, saturated
23.0	**SAND (SM)**, with silt, brown and light brown, odor and staining not observed, saturated
25.0	***Boring Terminated at 25 Feet***

GRAPHIC LOG | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (%) | SPT N-VALUE | OVA/PID (ppm)

SPT N-VALUE: 29-40-50/3

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
4.25-inch ID HSA

Abandonment Method:

Notes:
SV-15 was originally installed as permanent flush-mount soil vapor point on 2/29/2024 at a depth of 9 feet below land surface (bls).
Due to lack of air flow at 9 feet bls, SV-15 was re-installed on 3/5/2024 at a depth of 6 feet bls.

WATER LEVEL OBSERVATIONS

▽ *Water level measured on 4/10/2024.*

Terracon
2401 Brentwood Rd Ste 107
Raleigh, NC

Well Started: 03-13-2024
Well Completed: 03-13-2024
Drill Rig: Guspech Brute
Driller: SAEDACCO
Project No.: 70237017

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 70237017_IRA_MW BORING LOGS.GPJ TERRACON_DATATEMPLATE.GDT 6/3/24

WELL LOG NO. MW-145

PROJECT: Tarheel Army Missile Plant

CLIENT: USACE - Savannah District
Savannah, GA

SITE: 204 N. Graham-Hopedale Rd
Burlington, North Carolina

GRAPHIC LOG	DEPTH	MATERIAL DESCRIPTION	INSTALLATION DETAILS
		LOCATION See Figure 6	Well Completion: Surface Mount
	1.0	**ASPHALT AND CONCRETE**	
	2.0	**AGGREGATE BASE COURSE**, dark brown and gray, odor and staining not observed, dry	
		SILT (ML), with clay, brown and tan, odor and staining not observed, dry	
	12.0	**SILT (ML)**, brown and light brown, odor and staining not observed, dry to moist	
	27.0	**PARTIALLY WEATHERED ROCK**, (Parent material: Metamorphosed granite)	
	29.0	***Boring Terminated at 29 Feet***	

DEPTH (ft): 5, 10, 15, 20, 25

WATER LEVEL OBSERVATIONS: ▽ at 10 ft

SAMPLE TYPE

RECOVERY (%)

SPT N-VALUE: 14-13-17-25; 50/5

OVA/PID (ppm)

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
4.25-inch ID HSA

Abandonment Method:

Notes:

SV-16 was originally installed as permanent flush-mount soil vapor point on 2/29/2024 at a depth of 5 feet below land surface (bls).
Due to water observed in the point on 3/7/2024, SV-16 was re-installed on 3/12/2024 at a depth of 4 feet bls.

WATER LEVEL OBSERVATIONS

▽ *Water level measured on 4/10/2024.*

Terracon
2401 Brentwood Rd Ste 107
Raleigh, NC

Well Started: 03-14-2024 | Well Completed: 03-14-2024

Drill Rig: Guspech Brute | Driller: SAEDACCO

Project No.: 70237017

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 70237017_IRA_MW BORING LOGS.GPJ TERRACON_DATATEMPLATE.GDT 6/3/24

WELL LOG NO. MW-146

PROJECT: Tarheel Army Missile Plant

CLIENT: USACE - Savannah District
Savannah, GA

SITE: 204 N. Graham-Hopedale Rd
Burlington, North Carolina

LOCATION See Figure 6

INSTALLATION DETAILS
Well Completion:
Surface Mount

DEPTH	MATERIAL DESCRIPTION
1.0	**ASPHALT AND CONCRETE**
2.0	**AGGREGATE BASE COURSE**, dark brown and gray, odor and staining not observed, dry
	SILT (ML), with clay, brown and red, odor and staining not observed, dry
6.0	
	SILT (ML), light brown, odor and staining not observed, dry
16.0	
	Boring Terminated at 16 Feet

DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	SPT N-VALUE	OVA/PID (ppm)
5					
10	▽				
15				50/0	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
4.25-inch ID HSA

Abandonment Method:

Notes:

WATER LEVEL OBSERVATIONS

▽ *Water level measured on 4/10/2024.*

Terracon
2401 Brentwood Rd Ste 107
Raleigh, NC

Well Started: 03-14-2024
Well Completed: 03-14-2024
Drill Rig: Guspech Brute
Driller: SAEDACCO
Project No.: 70237017

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 70237017_IRA_MW BORING LOGS.GPJ TERRACON_DATATEMPLATE.GDT 6/3/24

WELL LOG NO. MW-147

PROJECT: Tarheel Army Missile Plant

CLIENT: USACE - Savannah District
Savannah, GA

SITE: 204 N. Graham-Hopedale Rd
Burlington, North Carolina

LOCATION See Figure 6

INSTALLATION DETAILS
Well Completion:
Surface Mount

DEPTH	MATERIAL DESCRIPTION
1.0	**ASPHALT AND CONCRETE**
2.0	**AGGREGATE BASE COURSE**, dark brown and gray, odor and staining not observed, dry
	SILT (ML), with sand, brown and tan, odor and staining not observed, dry
6.0	**SAND (SM)**, with silt, light brown and tan, odor and staining not observed, dry
13.0	
14.0	**PARTIALLY WEATHERED ROCK**, (Parent material: metamorphosed granite), auger refusal at 14 feet bls
	BEDROCK, (Metamorphosed granite), water-bearing fracture encountered at 18 feet bls
40.0	***Boring Terminated at 40 Feet***

DEPTH (ft)	SPT N-VALUE	OVA/PID (ppm)
5	7-10-18-25	<0.1
10	7-10-12-13	1.3
15	50/0	
20		
25	50/0	
30		
35		
40		

WATER LEVEL OBSERVATIONS: ▽ Water level measured on 5/8/2024.

SAMPLE TYPE

RECOVERY (%)

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
8.25-inch ID HSA/Air Rotary

Abandonment Method:

Notes:
feet bls: feet below land surface
MW-147 installed as Type III monitoring well with 6-inch outer casing from land surface to 25 feet bls.

WATER LEVEL OBSERVATIONS
▽ *Water level measured on 5/8/2024.*

Terracon
2401 Brentwood Rd Ste 107
Raleigh, NC

Well Started: 03-14-2024
Well Completed: 03-19-2024
Drill Rig: Guspech Brute
Driller: SAEDACCO
Project No.: 70237017

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 70237017_IRA_MW BORING LOGS.GPJ TERRACON_DATATEMPLATE.GDT 6/3/24

WELL LOG NO. MW-148

PROJECT: Tarheel Army Missile Plant

CLIENT: USACE - Savannah District
Savannah, GA

SITE: 204 N. Graham-Hopedale Rd
Burlington, North Carolina

DEPTH	MATERIAL DESCRIPTION	SPT N-VALUE	OVA/PID (ppm)
1.0	**ASPHALT AND CONCRETE**		
	SILT (ML), with clay, dark brown and red, odor and staining not observed, dry	6-8-10-14	<0.1
7.0			
	SILT (ML), with sand, brown and light red, odor and staining not observed, dry	5-11-18-18	0.7
12.0			
	SAND (SM), with silt, brown and tan, dry	7-13-14-20	5.4
22.0		14-12-25-38	0.7
	PARTIALLY WEATHERED ROCK, brown and gray, (Parent material: metamorphosed granite), auger refusal at 31 feet bls	12-26-36-50/5	7.4
31.0		15-12-12-13	5.7
	BEDROCK, (Metamorphosed granite)	50/0	
50.0			
	Boring Terminated at 50 Feet		

LOCATION See Figure 6

INSTALLATION DETAILS

Well Completion:
Surface Mount

DEPTH (ft): 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

WATER LEVEL OBSERVATIONS

SAMPLE TYPE

RECOVERY (%)

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
8.25-inch ID HSA/Air Rotary

Abandonment Method:

Notes:

feet bls: feet below land surface
MW-148 installed as Type III monitoring well with 6-inch outer casing from land surface to 35 feet bls.

WATER LEVEL OBSERVATIONS

▽ *Water level measured on 5/8/2024.*

Terracon
2401 Brentwood Rd Ste 107
Raleigh, NC

Well Started: 03-15-2024 | Well Completed: 03-18-2024

Drill Rig: Guspech Brute | Driller: SAEDACCO

Project No.: 70237017

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 70237017_IRA_MW BORING LOGS.GPJ TERRACON_DATATEMPLATE.GDT 6/3/24

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Eisenman
Well Contractor Name

4439
NC Well Contractor Certification Number

SAEDACCO
Company Name

2. Well Construction Permit #: WM0401509
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- X Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 3-13-24 **Well ID#** MW-143

5a. Well Location:

Former Tarheel Army Missile Plant — NC7210020544
Facility/Owner Name — Facility ID# (if applicable)

201 N. Graham Hopedale Rd., Burlington, NC, 27217
Physical Address, City, and Zip

Alamance — 139757
County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.0980521 N 79.4077283 W

6. Is (are) the well(s): X Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or X No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 23 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	13 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
13 ft.	23 ft.	2" in.	.010	SCH-40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	8 ft.	Portland	Pour
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
11 ft.	23 ft.	Sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

bentonite seal from 8-11'

22. Certification:

Signature of [illegible] Well Contractor — Date 4/8/2024

By signing this form I certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C [illegible] 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Eisenman
Well Contractor Name

4439
NC Well Contractor Certification Number

SAEDACCO
Company Name

2. Well Construction Permit #: WM0401509
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- X Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 3-13-24 **Well ID#** MW-144

5a. Well Location:

Former Tarheel Army Missile Plant — NC7210020544
Facility/Owner Name — Facility ID# (if applicable)

201 N. Graham Hopedale Rd., Burlington, NC, 27217
Physical Address, City, and Zip

Alamance — 139757
County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.0980868 N 79.4075889 W

6. Is (are) the well(s): X Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or X No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 24 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	14 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
14 ft.	24 ft.	2" in.	.010	SCH-40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	9 ft.	Portland	Pour
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
12 ft.	24 ft.	Sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

bentonite seal from 9-12'

22. Certification:

Signature of [illegible] Well Contractor — Date 4/8/2024

By signing this form I certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C [illegible] 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Eisenman
Well Contractor Name

4439
NC Well Contractor Certification Number

SAEDACCO
Company Name

2. Well Construction Permit #: WM0401509
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:
- XMonitoring
- ☐Recovery

Injection Well:
- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 3-14-24 **Well ID#** MW-145

5a. Well Location:

Former Tarheel Army Missile Plant — NC7210020544
Facility/Owner Name — Facility ID# (if applicable)

201 N. Graham Hopedale Rd., Burlington, NC, 27217
Physical Address, City, and Zip

Alamance — 139757
County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.0981782 N 79.4076743 W

6. Is (are) the well(s): XPermanent or ☐Temporary

7. Is this a repair to an existing well: ☐Yes or XNo
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 29 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	19 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
19 ft.	29 ft.	2" in.	.010	SCH-40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	14 ft.	Portland	Pour
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
17 ft.	29 ft.	Sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

bentonite seal from 14-17'

22. Certification:

Signature of [illegible] Well Contractor — Date 4/8/2024

By signing this form I certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C [illegible] 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

John Eisenman
Well Contractor Name

4439
NC Well Contractor Certification Number

SAEDACCO
Company Name

2. Well Construction Permit #: WM0401509
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 3-14-24 **Well ID#** MW-146

5a. Well Location:

Former Tarheel Army Missile Plant — NC7210020544
Facility/Owner Name — Facility ID# (if applicable)

201 N. Graham Hopedale Rd., Burlington, NC, 27217
Physical Address, City, and Zip

Alamance — 139757
County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.0981851 N 79.4078399 W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 16 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	6 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
6 ft.	16 ft.	2" in.	.010	SCH-40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	Portland	Pour
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
5 ft.	16 ft.	Sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

Bentonite seal from 3-5'

22. Certification:

Signature of [illegible] Well Contractor — Date: 4/8/2024

By signing this form I certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C [illegible] 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Eisenman
Well Contractor Name

4439
NC Well Contractor Certification Number

SAEDACCO
Company Name

2. Well Construction Permit #: WM0401509
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- X Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 3-18-24 **Well ID#** MW-147

5a. Well Location:

Former Tarheel Army Missile Plant — NC7210020544
Facility/Owner Name — Facility ID# (if applicable)

201 N. Graham Hopedale Rd., Burlington, NC, 27217
Physical Address, City, and Zip

Alamance — 139757
County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.0981837 N 79.4078186 W

6. Is (are) the well(s): X **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or X **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 40 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 12"/6" **(in.)**

12. Well construction method: HSA/AIR
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	25 ft.	6" in.	SCH-40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	40 ft.	2" in.	.010	SCH-40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	24 ft.	Portland	pump
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	40 ft.	Sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

bentonite seal from 24-28'

22. Certification:

Signature of [illegible] Well Contractor — Date 4/8/2024

By signing this form I certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C [illegible] 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Eisenman
Well Contractor Name

4439
NC Well Contractor Certification Number

SAEDACCO
Company Name

2. Well Construction Permit #: WM0401509
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- X Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 3-19-24 **Well ID#** MW-148

5a. Well Location:

Former Tarheel Army Missile Plant — NC7210020544
Facility/Owner Name — Facility ID# (if applicable)

201 N. Graham Hopedale Rd., Burlington, NC, 27217
Physical Address, City, and Zip

Alamance — 139757
County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.0981781 N 79.4076557 W

6. Is (are) the well(s): X **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or X **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 50 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 12"/6" **(in.)**

12. Well construction method: HSA/AIR
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	35 ft.	6" in.	SCH-40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	40 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
40 ft.	50 ft.	2" in.	.010	SCH-40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	34 ft.	Portland	Pour
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
38 ft.	50 ft.	Sand	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

bentonite seal from 34-38'

22. Certification:

Signature of [illegible] Well Contractor — Date 4/8/2024

By signing this form I certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C [illegible] 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.



PERMANT SOIL VAPOR POINTS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
32	854,905.440	1,878,674.214	580.34	MW-SV-13
30	855,015.417	1,878,835.175	589.89	MW-SV-14
28	854,918.061	1,878,978.985	603.68	MW-SV-15
33	854,808.638	1,878,888.607	593.97	MW-SV-16

HORIZONTAL NAD 83/ 2011
VERTICAL NAVD-88

BEDROCK WELL

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	
24	854,870.576	1,879,174.959	605.12	MW - # 101	(CHECK)
23	854,870.576	1,879,174.959	604.75	2" PVC TOP	(CHECK)
26	854,963.447	1,879,026.580	603.54	2" PVC TOP	(NEW)
25	854,963.447	1,879,026.580	603.92	MW - # 142	(NEW)

HORIZONTAL NAD 83/ 2011
VERTICAL NAVD-88

BWA Engineers Planners Surveyors
Borum, Wade and Associates, P.A.
621 Eugene Court, Suite 100, Greensboro, NC 27401-2711
PO Box 21582 Greensboro, NC 27420-1582
Phone: 336-275-0471 Fax: 336-275-3719
Web: www.borum-wade.com
N.C. License #: C-0868

SEALS:

BASIS OF SURVEY

HORIZONTAL NAD 83 \ 2011
VERTICAL NAVD-88
U.S. SURVEY FEET (SF)

PROJECT:

WELL LOCATION SURVEY OF TARHEEL ARMY MISSILE PLANT

204 N. GRAHAM-HOPEDALE ROAD
BURLINGTON TOWNSHIP, ALAMANCE COUNTY
BURLINGTON, NORTH CAROLINA

OWNER/DEVELOPER:

TERRACON
2401 BRENTWOOD ROAD, STE 107
RALEIGH, NORTH CAROLINA

DRAWN BY: PEG
DATE: MAY 28, 2024
REVISIONS:

SHEET TITLE:
WELL LOCATION

FILE NO: F:\TERRACON\ 204 GRAHAM-HOPEDALE
DRAWING SCALE: 1"= 30'

PLAN SHEET NO.
SHEET 1 of 2

BEDROCK WELL

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	
3	854,880.630	1,879,584.003	604.12	2" PVC TOP	(CHECK)
4	854,880.630	1,879,584.003	604.27	MW - # 107	(CHECK)
5	854,855.860	1,879,613.477	604.63	2" PVC TOP	(CHECK)
6	854,855.860	1,879,613.477	604.95	MW - # 11	(CHECK)
7	854,855.860	1,879,613.477	604.11	2" PVC TOP	(CHECK)
8	854,855.860	1,879,613.477	604.32	MW - # MP 01	(CHECK)
9	854,880.940	1,879,573.052	603.98	6" PVC TOP	(NEW)
10	854,880.940	1,879,573.052	604.35	MW - # 136	(NEW)
11	854,847.982	1,879,571.014	604.64	2" PVC TOP	(NEW)
12	854,847.982	1,879,571.014	604.91	MW - # 144	(NEW)
13	854,835.569	1,879,535.785	604.62	2" PVC TOP	(NEW)
14	854,835.569	1,879,535.785	604.93	MW - # 143	(NEW)
15	854,881.673	1,879,551.598	604.03	2" PVC TOP	(NEW)
16	854,881.673	1,879,551.598	604.38	MW - # 148	(NEW)
17	854,881.517	1,879,551.935	603.97	2" PVC TOP	(NEW)
18	854,881.517	1,879,551.935	604.39	MW - # 145	(NEW)
19	854,884.054	1,879,509.503	604.48	2" PVC TOP	(NEW)
20	854,884.054	1,879,509.503	604.48	MW - # 147	(NEW)
21	854,884.634	1,879,503.344	604.16	2" PVC TOP	(NEW)
22	854,884.634	1,879,503.344	604.76	MW - # 146	(NEW)

HORIZONTAL NAD 83/ 2011
VERTICAL NAVD-88

SET MAG. NAIL
NAD 83 \ 2011
N = 854,896.209
E = 1,879,552.287
ELEV = 604.38

CONTROL POINT

GPIN # 8875945707
CENTRAL PARK BUILDING, LLC
D.B. 3777, PG. 599

9 603.98 U-6"PVC TOP
10 604.35 U-MWELL #136
20 604.77 U-MWELL #147
16 604.38 U-MWELL #148
19 604.48 U-2"PVC TOP
15 604.03 U-2"PVC TOP
7 604.11 U-2"PVC TOP
21 604.16 U-2"PVC TOP
8 604.32 U-MWELL #MP-01
22 604.76 U-MWELL #146
18 604.39 U-MWELL #145
4 604.27 U-MWELL #107
3 604.12 U-2"PVC TOP
5 604.63 U-2"PVC TOP
17 603.97 U-2"PVC TOP
6 604.95 U-MWELL #11
13 604.62 U-2"PVC TOP
14 604.93 U-MWELL #143
12 604.91 U-MWELL #144
11 604.64 U-2"PVC TOP

GPIN # 8875945707
CENTRAL PARK BUILDING, LLC
D.B. 3777, PG. 599

BORUM, WADE AND ASSOCIATES, P.A.

ELEVATION NAVD 88
GRID NORTH
NAD 83 / NSRS 2011

N. GREHAM-HOPEDALE ROAD

GRAPHIC SCALE

0 15' 30' 60' 90' 120'

1" = 30'

BWA Engineers Planners Surveyors

Borum, Wade and Associates, P.A.

621 Eugene Court, Suite 100, Greensboro, NC 27401-2711
PO Box 21882 Greensboro, NC 27420-1882
Phone: 336-275-0471 Fax: 336-275-3719
Web: www.borum-wade.com
N.C. License #: C-0868

SEALS:

BASIS OF SURVEY
HORIZONTAL NAD 83 \ 2011
VERTICAL NAVD-88
U.S. SURVEY FEET (SF)

PROJECT:

WELL LOCATION SURVEY OF TARHEEL ARMY MISSILE PLANT

204 N. GRAHAM-HOPEDALE ROAD
BURLINGTON TOWNSHIP, ALAMANCE COUNTY
BURLINGTON, NORTH CAROLINA

OWNER/DEVELOPER:

TERRACON
2401 BRENTWOOD ROAD, STE 107
RALEIGH, NORTH CAROLINA

DRAWN BY: PEG
DATE: MAY 28, 2024
REVISIONS:

SHEET TITLE:
WELL LOCATION

FILE NO: F:\TERRACON\ 204 GRAHAM-HOPEDALE
DRAWING SCALE: 1"= 30'
PLAN SHEET NO.

SHEET 2 of 2

GRAHAM-HOPEDALE-M-Well.job 05/28/24 14:52:46

Point	Northing	Easting	Elevation	Description	Latitude	Longitude	Height
1	854,896.2092	1,879,552.2870	604.38	WP-NAIL	0.000000000	0.000000000	0.00
2	854,898.9590	1,879,200.8615	604.72	WP MAG	0.000000000	0.000000000	0.00
3	854,880.6296	1,879,584.0033	604.12	U-2"PVC TOP	0.000000000	0.000000000	0.00
4	854,880.6863	1,879,584.0196	604.27	U-MWELL #107	0.000000000	0.000000000	0.00
5	854,855.8604	1,879,613.4773	604.63	U-2"PVC TOP	0.000000000	0.000000000	0.00
6	854,855.9211	1,879,613.4684	604.95	U-MWELL #11	0.000000000	0.000000000	0.00
7	854,891.0359	1,879,594.6173	604.11	U-2"PVC TOP	0.000000000	0.000000000	0.00
8	854,891.0642	1,879,594.6036	604.32	U-MWELL #MP-01	0.000000000	0.000000000	0.00
9	854,880.9398	1,879,573.0515	603.98	U-6"PVC TOP	0.000000000	0.000000000	0.00
10	854,880.6957	1,879,573.0439	604.35	U-MWELL #136	0.000000000	0.000000000	0.00
11	854,847.9921	1,879,577.0137	604.64	U-2"PVC TOP	0.000000000	0.000000000	0.00
12	854,847.9659	1,879,576.9298	604.91	U-MWELL #144	0.000000000	0.000000000	0.00
13	854,835.5686	1,879,535.7946	604.62	U-2"PVC TOP	0.000000000	0.000000000	0.00
14	854,835.5364	1,879,535.7905	604.93	U-MWELL #143	0.000000000	0.000000000	0.00
15	854,881.6729	1,879,557.5993	604.03	U-2"PVC TOP	0.000000000	0.000000000	0.00
16	854,881.6370	1,879,557.4615	604.38	U-MWELL #148	0.000000000	0.000000000	0.00
17	854,881.5169	1,879,551.9346	603.97	U-2"PVC TOP	0.000000000	0.000000000	0.00
18	854,881.5932	1,879,551.9168	604.39	U-MWELL #145	0.000000000	0.000000000	0.00
19	854,884.0538	1,879,509.5033	604.48	U-2"PVC TOP	0.000000000	0.000000000	0.00
20	854,884.0978	1,879,509.3694	604.77	U-MWELL #147	0.000000000	0.000000000	0.00
21	854,884.6341	1,879,503.3442	604.16	U-2"PVC TOP	0.000000000	0.000000000	0.00
22	854,884.7159	1,879,503.2944	604.76	U-MWELL #146	0.000000000	0.000000000	0.00
23	854,870.5552	1,879,174.9617	604.75	U-2"PVC TOP	0.000000000	0.000000000	0.00
24	854,870.5762	1,879,174.9594	605.12	U-MWELL #101	0.000000000	0.000000000	0.00
25	854,963.4670	1,879,026.6579	603.54	U-2"PVC TOP	0.000000000	0.000000000	0.00
26	854,963.4468	1,879,026.5799	603.92	U-MWELL #142	0.000000000	0.000000000	0.00
28	854,918.0614	1,878,978.9850	603.68	U-MWELL SV-15	0.000000000	0.000000000	0.00
30	855,015.4174	1,878,835.1752	589.89	U-MWELL SV#14	0.000000000	0.000000000	0.00
32	854,905.4903	1,878,679.2135	580.34	U-MWELL SV#13	0.000000000	0.000000000	0.00
33	854,808.6383	1,878,888.6071	593.97	U-MWELL SV#16	0.000000000	0.000000000	0.00

Appendix D
Laboratory Analytical Reports and Chain-of-Custody Records

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 2/23/2024 4:25:34 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-246854-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
2/23/2024 4:25:34 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246854-1	SW-01A	Water	02/15/24 18:05	02/16/24 10:03
680-246854-2	SW-01B	Water	02/15/24 18:00	02/16/24 10:03
680-246854-3	SW-01	Water	02/15/24 17:45	02/16/24 10:03
680-246854-4	SW-02A	Water	02/15/24 17:30	02/16/24 10:03
680-246854-5	SW-02	Water	02/15/24 17:25	02/16/24 10:03
680-246854-6	SW-03	Water	02/15/24 17:15	02/16/24 10:03
680-246854-7	DUP-SW-02152024	Water	02/15/24 00:00	02/16/24 10:03
680-246854-8	LD-Sewer	Water	02/15/24 16:50	02/16/24 10:03
680-246854-9	EB-02152024	Water	02/15/24 16:40	02/16/24 10:03
680-246854-10	FB-02152024	Water	02/15/24 16:00	02/16/24 10:03
680-246854-11	TB-02152024	Water	02/15/24 00:00	02/16/24 10:03

Job ID: 680-246854-1 Eurofins Savannah

Job Narrative
680-246854-1

Receipt
The samples were received on 2/16/2024 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 680-823688 contained N-Propylbenzene and Tetrachloroethene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8260D: The method blank for analytical batch 680-823688 contained Tetrachloroethene above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 8260D: The method blank for analytical batch 680-823911 contained N-Propylbenzene and Tetrachloroethene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-01A
Date Collected: 02/15/24 18:05
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 14:34	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 14:34	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 14:34	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 14:34	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 14:34	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 14:34	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 14:34	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 14:34	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 14:34	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 14:34	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 14:34	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 14:34	1
Chloroform	**0.874**	**J**	1.00	0.270	ug/L			02/21/24 14:34	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 14:34	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 14:34	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 14:34	1
cis-1,2-Dichloroethene	**0.345**	**J**	1.00	0.250	ug/L			02/21/24 14:34	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 14:34	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 14:34	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 14:34	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:34	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:34	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:34	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 14:34	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 14:34	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 14:34	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 14:34	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 14:34	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 14:34	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 14:34	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 14:34	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 14:34	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 14:34	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 14:34	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 14:34	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 14:34	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 14:34	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 14:34	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 14:34	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 14:34	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 14:34	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 14:34	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 14:34	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 14:34	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 14:34	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 14:34	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 14:34	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 14:34	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 14:34	1

Client Sample ID: SW-01A

Lab Sample ID: 680-246854-1

Date Collected: 02/15/24 18:05

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 14:34	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 14:34	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 14:34	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 14:34	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 14:34	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 14:34	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 14:34	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			02/21/24 14:34	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 14:34	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 14:34	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 14:34	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 14:34	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 14:34	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 14:34	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 14:34	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 14:34	1
Trichloroethene	<0.200		1.00	0.200	ug/L			02/21/24 14:34	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 14:34	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 14:34	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 14:34	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 14:34	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 14:34	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 14:34	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*02/21/24 14:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/21/24 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*02/21/24 14:34*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 14:34*	*1*

Client Sample ID: SW-01B

Lab Sample ID: 680-246854-2

Date Collected: 02/15/24 18:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 14:56	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 14:56	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 14:56	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 14:56	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 14:56	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 14:56	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 14:56	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 14:56	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 14:56	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 14:56	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 14:56	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 14:56	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-01B
Date Collected: 02/15/24 18:00
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**0.417**	**J**	1.00	0.270	ug/L			02/21/24 14:56	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 14:56	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 14:56	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 14:56	1
cis-1,2-Dichloroethene	**15.3**		1.00	0.250	ug/L			02/21/24 14:56	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 14:56	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 14:56	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 14:56	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:56	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:56	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:56	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 14:56	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 14:56	1
1,1-Dichloroethane	**0.400**	**J**	1.00	0.330	ug/L			02/21/24 14:56	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 14:56	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 14:56	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 14:56	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 14:56	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 14:56	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 14:56	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 14:56	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 14:56	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 14:56	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 14:56	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 14:56	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 14:56	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 14:56	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 14:56	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 14:56	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 14:56	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 14:56	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 14:56	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 14:56	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 14:56	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 14:56	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 14:56	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 14:56	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 14:56	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 14:56	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 14:56	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 14:56	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 14:56	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 14:56	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 14:56	1
Tetrachloroethene	**19.6**	**B**	1.00	0.350	ug/L			02/21/24 14:56	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 14:56	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 14:56	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 14:56	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 14:56	1

Client Sample ID: SW-01B

Lab Sample ID: 680-246854-2

Date Collected: 02/15/24 18:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 14:56	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 14:56	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 14:56	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 14:56	1
Trichloroethene	**53.6**		1.00	0.200	ug/L			02/21/24 14:56	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 14:56	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.58**		1.00	0.230	ug/L			02/21/24 14:56	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 14:56	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 14:56	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 14:56	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 14:56	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*02/21/24 14:56*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/21/24 14:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*02/21/24 14:56*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 14:56*	*1*

Client Sample ID: SW-01

Lab Sample ID: 680-246854-3

Date Collected: 02/15/24 17:45

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 15:18	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 15:18	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 15:18	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 15:18	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 15:18	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 15:18	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 15:18	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 15:18	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 15:18	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 15:18	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 15:18	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 15:18	1
Chloroform	**0.639**	**J**	1.00	0.270	ug/L			02/21/24 15:18	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 15:18	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 15:18	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 15:18	1
cis-1,2-Dichloroethene	**1.31**		1.00	0.250	ug/L			02/21/24 15:18	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 15:18	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 15:18	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 15:18	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 15:18	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 15:18	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 15:18	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-01
Date Collected: 02/15/24 17:45
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 15:18	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 15:18	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 15:18	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 15:18	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 15:18	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 15:18	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 15:18	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 15:18	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 15:18	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 15:18	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 15:18	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 15:18	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 15:18	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 15:18	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 15:18	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 15:18	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 15:18	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 15:18	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 15:18	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 15:18	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 15:18	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 15:18	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 15:18	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 15:18	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 15:18	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 15:18	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 15:18	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 15:18	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 15:18	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 15:18	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 15:18	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 15:18	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 15:18	1
Tetrachloroethene	**1.01**		1.00	0.350	ug/L			02/23/24 13:54	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 15:18	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 15:18	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 15:18	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 15:18	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 15:18	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 15:18	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 15:18	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 15:18	1
Trichloroethene	**3.48**		1.00	0.200	ug/L			02/21/24 15:18	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 15:18	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 15:18	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 15:18	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 15:18	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 15:18	1

Client Sample ID: SW-01

Lab Sample ID: 680-246854-3

Date Collected: 02/15/24 17:45

Matrix: Water

Date Received: 02/16/24 10:03

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			02/21/24 15:18	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*02/21/24 15:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/23/24 13:54*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/21/24 15:18*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/23/24 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/21/24 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/23/24 13:54*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*02/21/24 15:18*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/23/24 13:54*	*1*

Client Sample ID: SW-02A

Lab Sample ID: 680-246854-4

Date Collected: 02/15/24 17:30

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 15:40	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 15:40	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 15:40	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 15:40	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 15:40	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 15:40	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 15:40	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 15:40	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 15:40	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 15:40	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 15:40	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 15:40	1
Chloroform	**0.594**	**J**	1.00	0.270	ug/L			02/21/24 15:40	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 15:40	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 15:40	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 15:40	1
cis-1,2-Dichloroethene	**2.71**		1.00	0.250	ug/L			02/21/24 15:40	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 15:40	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 15:40	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 15:40	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 15:40	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 15:40	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 15:40	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 15:40	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 15:40	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 15:40	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 15:40	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 15:40	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 15:40	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 15:40	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 15:40	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-02A
Date Collected: 02/15/24 17:30
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 15:40	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 15:40	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 15:40	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 15:40	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 15:40	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 15:40	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 15:40	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 15:40	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 15:40	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 15:40	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 15:40	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 15:40	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 15:40	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 15:40	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 15:40	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 15:40	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 15:40	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 15:40	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 15:40	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 15:40	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 15:40	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 15:40	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 15:40	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 15:40	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 15:40	1
Tetrachloroethene	**9.85**	**B**	1.00	0.350	ug/L			02/21/24 15:40	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 15:40	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 15:40	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 15:40	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 15:40	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 15:40	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 15:40	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 15:40	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 15:40	1
Trichloroethene	**12.2**		1.00	0.200	ug/L			02/21/24 15:40	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 15:40	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.958**	**J**	1.00	0.230	ug/L			02/21/24 15:40	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 15:40	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 15:40	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 15:40	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 15:40	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*02/21/24 15:40*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/21/24 15:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*02/21/24 15:40*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/21/24 15:40*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-02
Date Collected: 02/15/24 17:25
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 16:02	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 16:02	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 16:02	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 16:02	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 16:02	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 16:02	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 16:02	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 16:02	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 16:02	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 16:02	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 16:02	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 16:02	1
Chloroform	**0.383**	**J**	1.00	0.270	ug/L			02/21/24 16:02	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 16:02	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 16:02	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 16:02	1
cis-1,2-Dichloroethene	**2.35**		1.00	0.250	ug/L			02/21/24 16:02	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 16:02	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 16:02	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 16:02	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:02	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:02	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:02	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 16:02	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 16:02	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 16:02	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 16:02	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 16:02	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 16:02	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 16:02	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 16:02	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 16:02	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 16:02	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 16:02	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 16:02	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 16:02	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 16:02	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 16:02	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 16:02	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 16:02	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 16:02	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 16:02	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 16:02	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 16:02	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 16:02	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 16:02	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 16:02	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 16:02	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 16:02	1

Client Sample ID: SW-02

Lab Sample ID: 680-246854-5

Date Collected: 02/15/24 17:25

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 16:02	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 16:02	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 16:02	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 16:02	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 16:02	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 16:02	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 16:02	1
Tetrachloroethene	**7.20**	**B**	1.00	0.350	ug/L			02/21/24 16:02	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 16:02	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 16:02	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 16:02	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 16:02	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 16:02	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 16:02	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 16:02	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 16:02	1
Trichloroethene	**7.15**		1.00	0.200	ug/L			02/21/24 16:02	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 16:02	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 16:02	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 16:02	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 16:02	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 16:02	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 16:02	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*02/21/24 16:02*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/21/24 16:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*02/21/24 16:02*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 16:02*	*1*

Client Sample ID: SW-03

Lab Sample ID: 680-246854-6

Date Collected: 02/15/24 17:15

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 16:23	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 16:23	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 16:23	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 16:23	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 16:23	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 16:23	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 16:23	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 16:23	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 16:23	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 16:23	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 16:23	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 16:23	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-03
Date Collected: 02/15/24 17:15
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**0.278**	**J**	1.00	0.270	ug/L			02/21/24 16:23	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 16:23	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 16:23	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 16:23	1
cis-1,2-Dichloroethene	**1.34**		1.00	0.250	ug/L			02/21/24 16:23	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 16:23	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 16:23	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 16:23	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:23	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:23	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:23	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 16:23	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 16:23	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 16:23	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 16:23	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 16:23	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 16:23	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 16:23	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 16:23	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 16:23	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 16:23	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 16:23	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 16:23	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 16:23	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 16:23	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 16:23	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 16:23	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 16:23	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 16:23	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 16:23	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 16:23	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 16:23	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 16:23	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 16:23	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 16:23	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 16:23	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 16:23	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 16:23	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 16:23	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 16:23	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 16:23	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 16:23	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 16:23	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 16:23	1
Tetrachloroethene	**4.42**	**B**	1.00	0.350	ug/L			02/21/24 16:23	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 16:23	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 16:23	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 16:23	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 16:23	1

Client Sample ID: SW-03

Lab Sample ID: 680-246854-6

Date Collected: 02/15/24 17:15

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 16:23	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 16:23	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 16:23	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 16:23	1
Trichloroethene	**5.31**		1.00	0.200	ug/L			02/21/24 16:23	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 16:23	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 16:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 16:23	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 16:23	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 16:23	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 16:23	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 16:23	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*02/21/24 16:23*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/21/24 16:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*02/21/24 16:23*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*02/21/24 16:23*	*1*

Client Sample ID: DUP-SW-02152024

Lab Sample ID: 680-246854-7

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 16:45	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 16:45	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 16:45	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 16:45	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 16:45	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 16:45	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 16:45	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 16:45	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 16:45	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 16:45	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 16:45	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 16:45	1
Chloroform	**0.568**	**J**	1.00	0.270	ug/L			02/21/24 16:45	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 16:45	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 16:45	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 16:45	1
cis-1,2-Dichloroethene	**2.56**		1.00	0.250	ug/L			02/21/24 16:45	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 16:45	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 16:45	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 16:45	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:45	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:45	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 16:45	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 16:45	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: DUP-SW-02152024
Date Collected: 02/15/24 00:00
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 16:45	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 16:45	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 16:45	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 16:45	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 16:45	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 16:45	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 16:45	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 16:45	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 16:45	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 16:45	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 16:45	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 16:45	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 16:45	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 16:45	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 16:45	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 16:45	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 16:45	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 16:45	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 16:45	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 16:45	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 16:45	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 16:45	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 16:45	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 16:45	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 16:45	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 16:45	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 16:45	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 16:45	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 16:45	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 16:45	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 16:45	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 16:45	1
Tetrachloroethene	**9.91**	**B**	1.00	0.350	ug/L			02/21/24 16:45	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 16:45	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 16:45	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 16:45	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 16:45	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 16:45	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 16:45	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 16:45	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 16:45	1
Trichloroethene	**11.9**		1.00	0.200	ug/L			02/21/24 16:45	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 16:45	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 16:45	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 16:45	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 16:45	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 16:45	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 16:45	1

Client Sample ID: DUP-SW-02152024

Lab Sample ID: 680-246854-7

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*02/21/24 16:45*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*02/21/24 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/21/24 16:45*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/21/24 16:45*	*1*

Client Sample ID: LD-Sewer

Lab Sample ID: 680-246854-8

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 17:07	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 17:07	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 17:07	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 17:07	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 17:07	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 17:07	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 17:07	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 17:07	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 17:07	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 17:07	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 17:07	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 17:07	1
Chloroform	**0.569**	**J**	1.00	0.270	ug/L			02/21/24 17:07	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 17:07	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 17:07	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 17:07	1
cis-1,2-Dichloroethene	**1.59**		1.00	0.250	ug/L			02/21/24 17:07	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 17:07	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 17:07	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 17:07	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 17:07	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 17:07	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 17:07	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 17:07	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 17:07	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 17:07	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 17:07	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 17:07	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 17:07	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 17:07	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 17:07	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 17:07	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 17:07	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 17:07	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 17:07	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 17:07	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: LD-Sewer
Date Collected: 02/15/24 16:50
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 17:07	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 17:07	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 17:07	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 17:07	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 17:07	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 17:07	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 17:07	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 17:07	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 17:07	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 17:07	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 17:07	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 17:07	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 17:07	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 17:07	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 17:07	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 17:07	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 17:07	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 17:07	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 17:07	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 17:07	1
Tetrachloroethene	**0.842**	**J**	1.00	0.350	ug/L			02/23/24 14:16	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 17:07	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 17:07	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 17:07	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 17:07	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 17:07	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 17:07	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 17:07	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 17:07	1
Trichloroethene	**3.38**		1.00	0.200	ug/L			02/21/24 17:07	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 17:07	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 17:07	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 17:07	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 17:07	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 17:07	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 17:07	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*02/21/24 17:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/23/24 14:16*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/21/24 17:07*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*02/23/24 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/21/24 17:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*02/23/24 14:16*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 17:07*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*02/23/24 14:16*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: EB-02152024
Date Collected: 02/15/24 16:40
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 13:29	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 13:29	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 13:29	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 13:29	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 13:29	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 13:29	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 13:29	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 13:29	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 13:29	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 13:29	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 13:29	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 13:29	1
Chloroform	**0.802**	**J**	1.00	0.270	ug/L			02/22/24 13:36	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 13:29	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 13:29	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 13:29	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			02/21/24 13:29	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 13:29	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 13:29	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 13:29	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 13:29	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 13:29	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 13:29	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 13:29	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 13:29	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 13:29	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 13:29	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 13:29	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 13:29	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 13:29	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 13:29	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 13:29	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 13:29	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 13:29	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 13:29	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 13:29	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 13:29	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 13:29	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 13:29	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 13:29	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 13:29	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 13:29	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 13:29	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 13:29	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 13:29	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 13:29	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 13:29	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 13:29	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 13:29	1

Client Sample ID: EB-02152024

Lab Sample ID: 680-246854-9

Date Collected: 02/15/24 16:40

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 13:29	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 13:29	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 13:29	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 13:29	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 13:29	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 13:29	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 13:29	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			02/21/24 13:29	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 13:29	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 13:29	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 13:29	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 13:29	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 13:29	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 13:29	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 13:29	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 13:29	1
Trichloroethene	<0.200		1.00	0.200	ug/L			02/21/24 13:29	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 13:29	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 13:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 13:29	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 13:29	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 13:29	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 13:29	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 13:29	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*02/21/24 13:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/22/24 13:36*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/21/24 13:29*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/22/24 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*02/21/24 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*02/22/24 13:36*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 13:29*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/22/24 13:36*	*1*

Client Sample ID: FB-02152024

Lab Sample ID: 680-246854-10

Date Collected: 02/15/24 16:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 13:51	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 13:51	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 13:51	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 13:51	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 13:51	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 13:51	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 13:51	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 13:51	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: FB-02152024
Date Collected: 02/15/24 16:00
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 13:51	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 13:51	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 13:51	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 13:51	1
Chloroform	**0.832**	**J**	1.00	0.270	ug/L			02/22/24 13:58	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			02/21/24 13:51	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 13:51	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 13:51	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			02/21/24 13:51	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 13:51	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 13:51	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 13:51	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 13:51	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 13:51	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 13:51	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 13:51	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 13:51	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 13:51	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 13:51	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 13:51	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 13:51	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 13:51	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 13:51	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 13:51	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 13:51	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 13:51	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 13:51	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 13:51	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 13:51	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 13:51	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 13:51	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 13:51	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 13:51	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 13:51	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 13:51	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 13:51	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 13:51	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 13:51	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 13:51	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 13:51	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 13:51	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 13:51	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 13:51	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 13:51	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 13:51	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 13:51	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 13:51	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 13:51	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			02/21/24 13:51	1

Client Sample ID: FB-02152024

Lab Sample ID: 680-246854-10

Date Collected: 02/15/24 16:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 13:51	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 13:51	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 13:51	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 13:51	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 13:51	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 13:51	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 13:51	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 13:51	1
Trichloroethene	<0.200		1.00	0.200	ug/L			02/21/24 13:51	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 13:51	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 13:51	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 13:51	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 13:51	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 13:51	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 13:51	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*02/21/24 13:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/22/24 13:58*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/21/24 13:51*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/22/24 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*02/21/24 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*02/22/24 13:58*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 13:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/22/24 13:58*	*1*

Client Sample ID: TB-02152024

Lab Sample ID: 680-246854-11

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 14:13	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 14:13	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 14:13	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 14:13	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 14:13	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/22/24 14:20	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 14:13	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 14:13	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 14:13	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 14:13	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 14:13	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 14:13	1
Chloroform	<0.270		1.00	0.270	ug/L			02/22/24 14:20	1
Chloromethane	<0.540		1.00	0.540	ug/L			02/22/24 14:20	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 14:13	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 14:13	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: TB-02152024
Date Collected: 02/15/24 00:00
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			02/21/24 14:13	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 14:13	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 14:13	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 14:13	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:13	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:13	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 14:13	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 14:13	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			02/21/24 14:13	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 14:13	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 14:13	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 14:13	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 14:13	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 14:13	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 14:13	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 14:13	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 14:13	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 14:13	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 14:13	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 14:13	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 14:13	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 14:13	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 14:13	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 14:13	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 14:13	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 14:13	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 14:13	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 14:13	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 14:13	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 14:13	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 14:13	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 14:13	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 14:13	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/21/24 14:13	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 14:13	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 14:13	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 14:13	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 14:13	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 14:13	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 14:13	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			02/21/24 14:13	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 14:13	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 14:13	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 14:13	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 14:13	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 14:13	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 14:13	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 14:13	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 14:13	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: TB-02152024
Date Collected: 02/15/24 00:00
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.200		1.00	0.200	ug/L			02/21/24 14:13	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			02/21/24 14:13	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 14:13	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 14:13	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 14:13	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 14:13	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 14:13	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*02/21/24 14:13*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*02/22/24 14:20*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/21/24 14:13*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/22/24 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*02/21/24 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*02/22/24 14:20*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*02/21/24 14:13*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*02/22/24 14:20*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

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

Lab Sample ID: MB 680-823688/10
Matrix: Water
Analysis Batch: 823688

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/21/24 12:55	1
Benzene	<0.270		1.00	0.270	ug/L			02/21/24 12:55	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/21/24 12:55	1
Bromoform	<0.590		1.00	0.590	ug/L			02/21/24 12:55	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/21/24 12:55	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/21/24 12:55	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/21/24 12:55	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/21/24 12:55	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/21/24 12:55	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/21/24 12:55	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/21/24 12:55	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/21/24 12:55	1
Chloroform	<0.270		1.00	0.270	ug/L			02/21/24 12:55	1
Chloromethane	<0.540		1.00	0.540	ug/L			02/21/24 12:55	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/21/24 12:55	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/21/24 12:55	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			02/21/24 12:55	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/21/24 12:55	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/21/24 12:55	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/21/24 12:55	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 12:55	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 12:55	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/21/24 12:55	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/21/24 12:55	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			02/21/24 12:55	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/21/24 12:55	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/21/24 12:55	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/21/24 12:55	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/21/24 12:55	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/21/24 12:55	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/21/24 12:55	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/21/24 12:55	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/21/24 12:55	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/21/24 12:55	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/21/24 12:55	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/21/24 12:55	1
Hexane	<0.650		5.00	0.650	ug/L			02/21/24 12:55	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/21/24 12:55	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/21/24 12:55	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/21/24 12:55	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/21/24 12:55	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/21/24 12:55	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/21/24 12:55	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/21/24 12:55	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/21/24 12:55	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/21/24 12:55	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/21/24 12:55	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/21/24 12:55	1

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

Lab Sample ID: MB 680-823688/10
Matrix: Water
Analysis Batch: 823688

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	<0.430		1.00	0.430	ug/L			02/21/24 12:55	1
N-Propylbenzene	0.4469	J	1.00	0.410	ug/L			02/21/24 12:55	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/21/24 12:55	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/21/24 12:55	1
Styrene	<0.270		1.00	0.270	ug/L			02/21/24 12:55	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 12:55	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/21/24 12:55	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/21/24 12:55	1
Tetrachloroethene	0.4087	J	1.00	0.350	ug/L			02/21/24 12:55	1
Toluene	<0.250		1.00	0.250	ug/L			02/21/24 12:55	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/21/24 12:55	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/21/24 12:55	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/21/24 12:55	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/21/24 12:55	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/21/24 12:55	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/21/24 12:55	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/21/24 12:55	1
Trichloroethene	<0.200		1.00	0.200	ug/L			02/21/24 12:55	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			02/21/24 12:55	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/21/24 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/21/24 12:55	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/21/24 12:55	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/21/24 12:55	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/21/24 12:55	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/21/24 12:55	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/21/24 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*02/21/24 12:55*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*02/21/24 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*02/21/24 12:55*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/21/24 12:55*	*1*

Lab Sample ID: LCS 680-823688/6
Matrix: Water
Analysis Batch: 823688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	215.5		ug/L		86	67 - 120
Benzene	50.0	52.04		ug/L		104	70 - 130
Bromobenzene	50.0	53.44		ug/L		107	70 - 130
Bromoform	50.0	43.67		ug/L		87	69 - 129
Bromomethane	50.0	78.45		ug/L		157	28 - 192
2-Butanone (MEK)	250	217.8		ug/L		87	69 - 120
Carbon disulfide	50.0	55.80		ug/L		112	70 - 130
Carbon tetrachloride	50.0	47.64		ug/L		95	70 - 130
Chlorobenzene	50.0	53.06		ug/L		106	70 - 130
Chlorobromomethane	50.0	54.12		ug/L		108	70 - 130

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

Lab Sample ID: LCS 680-823688/6
Matrix: Water
Analysis Batch: 823688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	50.0	49.02		ug/L		98	70 - 130
Chloroethane	50.0	74.71		ug/L		149	31 - 213
Chloroform	50.0	48.68		ug/L		97	70 - 130
Chloromethane	50.0	69.12	*+	ug/L		138	59 - 127
2-Chlorotoluene	50.0	53.29		ug/L		107	70 - 130
4-Chlorotoluene	50.0	53.38		ug/L		107	70 - 130
cis-1,2-Dichloroethene	50.0	52.58		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	53.97		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	38.51		ug/L		77	70 - 130
Dibromomethane	50.0	52.68		ug/L		105	70 - 130
1,2-Dichlorobenzene	50.0	52.24		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	52.63		ug/L		105	70 - 130
1,4-Dichlorobenzene	50.0	53.28		ug/L		107	70 - 130
Dichlorobromomethane	50.0	48.80		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	72.72	*+	ug/L		145	70 - 130
1,1-Dichloroethane	50.0	52.49		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	49.87		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	54.57		ug/L		109	70 - 130
1,2-Dichloropropane	50.0	52.01		ug/L		104	70 - 130
1,3-Dichloropropane	50.0	53.84		ug/L		108	70 - 130
2,2-Dichloropropane	50.0	54.31		ug/L		109	70 - 130
1,1-Dichloropropene	50.0	54.81		ug/L		110	70 - 130
Ethylbenzene	50.0	52.78		ug/L		106	70 - 130
Ethylene Dibromide	50.0	55.50		ug/L		111	70 - 130
Hexachlorobutadiene	50.0	54.74		ug/L		109	70 - 130
Hexane	50.0	57.08		ug/L		114	70 - 130
2-Hexanone	250	228.8		ug/L		92	70 - 130
Iodomethane	50.0	54.51		ug/L		109	52 - 129
Isopropylbenzene	50.0	52.84		ug/L		106	70 - 130
4-Isopropyltoluene	50.0	53.53		ug/L		107	70 - 130
Methylene Chloride	50.0	49.17		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	250	238.1		ug/L		95	68 - 120
Methyl tert-butyl ether	50.0	49.77		ug/L		100	70 - 130
m-Xylene & p-Xylene	50.0	53.79		ug/L		108	70 - 130
Naphthalene	50.0	49.28		ug/L		99	57 - 149
n-Butylbenzene	50.0	53.81		ug/L		108	70 - 130
n-Heptane	50.0	59.19		ug/L		118	65 - 120
N-Propylbenzene	50.0	52.49		ug/L		105	70 - 130
o-Xylene	50.0	52.12		ug/L		104	70 - 130
sec-Butylbenzene	50.0	50.48		ug/L		101	70 - 130
Styrene	50.0	55.39		ug/L		111	70 - 130
tert-Butylbenzene	50.0	50.52		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	50.0	49.28		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.58		ug/L		95	70 - 130
Tetrachloroethene	50.0	51.70		ug/L		103	70 - 130
Toluene	50.0	53.06		ug/L		106	70 - 130
trans-1,4-Dichloro-2-butene	50.0	44.25		ug/L		88	67 - 120
trans-1,2-Dichloroethene	50.0	53.44		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	54.25		ug/L		109	70 - 130

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

Lab Sample ID: LCS 680-823688/6
Matrix: Water
Analysis Batch: 823688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	50.80		ug/L		102	61 - 141
1,2,4-Trichlorobenzene	50.0	54.06		ug/L		108	70 - 130
1,1,1-Trichloroethane	50.0	49.47		ug/L		99	70 - 130
1,1,2-Trichloroethane	50.0	55.08		ug/L		110	70 - 130
Trichloroethene	50.0	52.49		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	102.3	*+	ug/L		205	63 - 142
1,2,3-Trichloropropane	50.0	48.33		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.78		ug/L		106	63 - 141
1,2,4-Trimethylbenzene	50.0	53.08		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.38		ug/L		107	70 - 130
Vinyl acetate	100	76.96		ug/L		77	67 - 135
Vinyl chloride	50.0	62.95		ug/L		126	66 - 129
Xylenes, Total	100	105.9		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-823688/7
Matrix: Water
Analysis Batch: 823688

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
Acetone	250	215.5		ug/L		86	67 - 120	0	30
Benzene	50.0	52.02		ug/L		104	70 - 130	0	30
Bromobenzene	50.0	53.76		ug/L		108	70 - 130	1	30
Bromoform	50.0	44.12		ug/L		88	69 - 129	1	30
Bromomethane	50.0	80.46		ug/L		161	28 - 192	3	30
2-Butanone (MEK)	250	214.5		ug/L		86	69 - 120	2	30
Carbon disulfide	50.0	55.27		ug/L		111	70 - 130	1	30
Carbon tetrachloride	50.0	47.30		ug/L		95	70 - 130	1	30
Chlorobenzene	50.0	52.50		ug/L		105	70 - 130	1	30
Chlorobromomethane	50.0	54.21		ug/L		108	70 - 130	0	30
Chlorodibromomethane	50.0	48.93		ug/L		98	70 - 130	0	30
Chloroethane	50.0	83.15		ug/L		166	31 - 213	11	30
Chloroform	50.0	48.46		ug/L		97	70 - 130	0	30
Chloromethane	50.0	69.03	*+	ug/L		138	59 - 127	0	30
2-Chlorotoluene	50.0	52.13		ug/L		104	70 - 130	2	30
4-Chlorotoluene	50.0	53.50		ug/L		107	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	51.44		ug/L		103	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	53.10		ug/L		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	38.68		ug/L		77	70 - 130	0	30
Dibromomethane	50.0	52.47		ug/L		105	70 - 130	0	30
1,2-Dichlorobenzene	50.0	52.03		ug/L		104	70 - 130	0	30
1,3-Dichlorobenzene	50.0	52.45		ug/L		105	70 - 130	0	30
1,4-Dichlorobenzene	50.0	52.62		ug/L		105	70 - 130	1	30

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

Lab Sample ID: LCSD 680-823688/7
Matrix: Water
Analysis Batch: 823688

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
Dichlorobromomethane	50.0	49.05		ug/L		98	70 - 130	1	30
Dichlorodifluoromethane	50.0	79.02	*+	ug/L		158	70 - 130	8	40
1,1-Dichloroethane	50.0	52.14		ug/L		104	70 - 130	1	30
1,2-Dichloroethane	50.0	50.35		ug/L		101	70 - 130	1	50
1,1-Dichloroethene	50.0	54.36		ug/L		109	70 - 130	0	20
1,2-Dichloropropane	50.0	52.29		ug/L		105	70 - 130	1	20
1,3-Dichloropropane	50.0	54.07		ug/L		108	70 - 130	0	20
2,2-Dichloropropane	50.0	54.03		ug/L		108	70 - 130	1	20
1,1-Dichloropropene	50.0	54.04		ug/L		108	70 - 130	1	20
Ethylbenzene	50.0	52.01		ug/L		104	70 - 130	1	20
Ethylene Dibromide	50.0	54.93		ug/L		110	70 - 130	1	30
Hexachlorobutadiene	50.0	54.86		ug/L		110	70 - 130	0	20
Hexane	50.0	55.82		ug/L		112	70 - 130	2	30
2-Hexanone	250	228.5		ug/L		91	70 - 130	0	20
Iodomethane	50.0	54.09		ug/L		108	52 - 129	1	30
Isopropylbenzene	50.0	51.62		ug/L		103	70 - 130	2	30
4-Isopropyltoluene	50.0	53.09		ug/L		106	70 - 130	1	30
Methylene Chloride	50.0	49.68		ug/L		99	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	250	237.4		ug/L		95	68 - 120	0	30
Methyl tert-butyl ether	50.0	49.72		ug/L		99	70 - 130	0	30
m-Xylene & p-Xylene	50.0	53.15		ug/L		106	70 - 130	1	30
Naphthalene	50.0	48.21		ug/L		96	57 - 149	2	30
n-Butylbenzene	50.0	54.55		ug/L		109	70 - 130	1	30
n-Heptane	50.0	57.49		ug/L		115	65 - 120	3	30
N-Propylbenzene	50.0	51.65		ug/L		103	70 - 130	2	30
o-Xylene	50.0	51.40		ug/L		103	70 - 130	1	30
sec-Butylbenzene	50.0	49.85		ug/L		100	70 - 130	1	30
Styrene	50.0	54.53		ug/L		109	70 - 130	2	30
tert-Butylbenzene	50.0	50.03		ug/L		100	70 - 130	1	30
1,1,1,2-Tetrachloroethane	50.0	49.37		ug/L		99	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	46.42		ug/L		93	70 - 130	2	30
Tetrachloroethene	50.0	51.55		ug/L		103	70 - 130	0	30
Toluene	50.0	52.67		ug/L		105	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	43.56		ug/L		87	67 - 120	2	30
trans-1,2-Dichloroethene	50.0	52.77		ug/L		106	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	53.96		ug/L		108	70 - 130	1	30
1,2,3-Trichlorobenzene	50.0	50.37		ug/L		101	61 - 141	1	30
1,2,4-Trichlorobenzene	50.0	53.23		ug/L		106	70 - 130	2	30
1,1,1-Trichloroethane	50.0	49.41		ug/L		99	70 - 130	0	30
1,1,2-Trichloroethane	50.0	55.02		ug/L		110	70 - 130	0	30
Trichloroethene	50.0	52.55		ug/L		105	70 - 130	0	30
Trichlorofluoromethane	50.0	100.0	*+	ug/L		200	63 - 142	2	30
1,2,3-Trichloropropane	50.0	48.78		ug/L		98	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.44		ug/L		105	63 - 141	1	30
1,2,4-Trimethylbenzene	50.0	52.71		ug/L		105	70 - 130	1	30
1,3,5-Trimethylbenzene	50.0	52.75		ug/L		105	70 - 130	1	30
Vinyl acetate	100	71.61		ug/L		72	67 - 135	7	30
Vinyl chloride	50.0	60.07		ug/L		120	66 - 129	5	30

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

Lab Sample ID: LCSD 680-823688/7
Matrix: Water
Analysis Batch: 823688

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
Xylenes, Total			100	104.6		ug/L		105	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 680-823911/10
Matrix: Water
Analysis Batch: 823911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/22/24 13:00	1
Benzene	<0.270		1.00	0.270	ug/L			02/22/24 13:00	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/22/24 13:00	1
Bromoform	<0.590		1.00	0.590	ug/L			02/22/24 13:00	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/22/24 13:00	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/22/24 13:00	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/22/24 13:00	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/22/24 13:00	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/22/24 13:00	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/22/24 13:00	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/22/24 13:00	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/22/24 13:00	1
Chloroform	<0.270		1.00	0.270	ug/L			02/22/24 13:00	1
Chloromethane	<0.540		1.00	0.540	ug/L			02/22/24 13:00	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/22/24 13:00	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/22/24 13:00	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			02/22/24 13:00	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/22/24 13:00	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/22/24 13:00	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/22/24 13:00	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/22/24 13:00	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/22/24 13:00	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/22/24 13:00	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/22/24 13:00	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			02/22/24 13:00	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/22/24 13:00	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/22/24 13:00	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/22/24 13:00	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/22/24 13:00	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/22/24 13:00	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/22/24 13:00	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/22/24 13:00	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/22/24 13:00	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/22/24 13:00	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/22/24 13:00	1

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

Lab Sample ID: MB 680-823911/10
Matrix: Water
Analysis Batch: 823911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/22/24 13:00	1
Hexane	<0.650		5.00	0.650	ug/L			02/22/24 13:00	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/22/24 13:00	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/22/24 13:00	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/22/24 13:00	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/22/24 13:00	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/22/24 13:00	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/22/24 13:00	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/22/24 13:00	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/22/24 13:00	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/22/24 13:00	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/22/24 13:00	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/22/24 13:00	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/22/24 13:00	1
N-Propylbenzene	0.4928	J	1.00	0.410	ug/L			02/22/24 13:00	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/22/24 13:00	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/22/24 13:00	1
Styrene	<0.270		1.00	0.270	ug/L			02/22/24 13:00	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/22/24 13:00	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/22/24 13:00	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/22/24 13:00	1
Tetrachloroethene	0.4091	J	1.00	0.350	ug/L			02/22/24 13:00	1
Toluene	<0.250		1.00	0.250	ug/L			02/22/24 13:00	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/22/24 13:00	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/22/24 13:00	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/22/24 13:00	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/22/24 13:00	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/22/24 13:00	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/22/24 13:00	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/22/24 13:00	1
Trichloroethene	<0.200		1.00	0.200	ug/L			02/22/24 13:00	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			02/22/24 13:00	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/22/24 13:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/22/24 13:00	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/22/24 13:00	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/22/24 13:00	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/22/24 13:00	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/22/24 13:00	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/22/24 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*02/22/24 13:00*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/22/24 13:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*02/22/24 13:00*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/22/24 13:00*	*1*

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

Lab Sample ID: LCS 680-823911/6
Matrix: Water
Analysis Batch: 823911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	246.2		ug/L		98	67 - 120
Benzene	50.0	52.73		ug/L		105	70 - 130
Bromobenzene	50.0	54.52		ug/L		109	70 - 130
Bromoform	50.0	45.42		ug/L		91	69 - 129
Bromomethane	50.0	72.17		ug/L		144	28 - 192
2-Butanone (MEK)	250	254.1		ug/L		102	69 - 120
Carbon disulfide	50.0	57.02		ug/L		114	70 - 130
Carbon tetrachloride	50.0	47.42		ug/L		95	70 - 130
Chlorobenzene	50.0	53.75		ug/L		107	70 - 130
Chlorobromomethane	50.0	54.10		ug/L		108	70 - 130
Chlorodibromomethane	50.0	48.88		ug/L		98	70 - 130
Chloroethane	50.0	74.95		ug/L		150	31 - 213
Chloroform	50.0	48.95		ug/L		98	70 - 130
Chloromethane	50.0	62.78		ug/L		126	59 - 127
2-Chlorotoluene	50.0	54.38		ug/L		109	70 - 130
4-Chlorotoluene	50.0	54.96		ug/L		110	70 - 130
cis-1,2-Dichloroethene	50.0	52.56		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	53.63		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	42.42		ug/L		85	70 - 130
Dibromomethane	50.0	54.09		ug/L		108	70 - 130
1,2-Dichlorobenzene	50.0	52.21		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	53.80		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	54.07		ug/L		108	70 - 130
Dichlorobromomethane	50.0	48.61		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	71.73	*+	ug/L		143	70 - 130
1,1-Dichloroethane	50.0	53.01		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	51.11		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	56.10		ug/L		112	70 - 130
1,2-Dichloropropane	50.0	53.02		ug/L		106	70 - 130
1,3-Dichloropropane	50.0	55.23		ug/L		110	70 - 130
2,2-Dichloropropane	50.0	55.01		ug/L		110	70 - 130
1,1-Dichloropropene	50.0	55.26		ug/L		111	70 - 130
Ethylbenzene	50.0	53.63		ug/L		107	70 - 130
Ethylene Dibromide	50.0	56.55		ug/L		113	70 - 130
Hexachlorobutadiene	50.0	54.50		ug/L		109	70 - 130
Hexane	50.0	58.90		ug/L		118	70 - 130
2-Hexanone	250	259.5		ug/L		104	70 - 130
Iodomethane	50.0	51.96		ug/L		104	52 - 129
Isopropylbenzene	50.0	52.41		ug/L		105	70 - 130
4-Isopropyltoluene	50.0	54.80		ug/L		110	70 - 130
Methylene Chloride	50.0	49.47		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	250	266.0		ug/L		106	68 - 120
Methyl tert-butyl ether	50.0	53.35		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	53.43		ug/L		107	70 - 130
Naphthalene	50.0	52.98		ug/L		106	57 - 149
n-Butylbenzene	50.0	56.13		ug/L		112	70 - 130
n-Heptane	50.0	60.24		ug/L		120	65 - 120
N-Propylbenzene	50.0	53.35		ug/L		107	70 - 130

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

Lab Sample ID: LCS 680-823911/6
Matrix: Water
Analysis Batch: 823911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	50.0	51.92		ug/L		104	70 - 130
sec-Butylbenzene	50.0	51.96		ug/L		104	70 - 130
Styrene	50.0	55.44		ug/L		111	70 - 130
tert-Butylbenzene	50.0	51.63		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	49.83		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.34		ug/L		103	70 - 130
Tetrachloroethene	50.0	51.86		ug/L		104	70 - 130
Toluene	50.0	52.70		ug/L		105	70 - 130
trans-1,4-Dichloro-2-butene	50.0	46.69		ug/L		93	67 - 120
trans-1,2-Dichloroethene	50.0	53.04		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	54.27		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	50.0	51.69		ug/L		103	61 - 141
1,2,4-Trichlorobenzene	50.0	53.83		ug/L		108	70 - 130
1,1,1-Trichloroethane	50.0	49.64		ug/L		99	70 - 130
1,1,2-Trichloroethane	50.0	56.64		ug/L		113	70 - 130
Trichloroethene	50.0	52.33		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	116.8	*+	ug/L		234	63 - 142
1,2,3-Trichloropropane	50.0	51.70		ug/L		103	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.96		ug/L		106	63 - 141
1,2,4-Trimethylbenzene	50.0	54.43		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	50.0	55.02		ug/L		110	70 - 130
Vinyl acetate	100	99.86		ug/L		100	67 - 135
Vinyl chloride	50.0	61.99		ug/L		124	66 - 129
Xylenes, Total	100	105.4		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-823911/7
Matrix: Water
Analysis Batch: 823911

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
Acetone	250	259.3		ug/L		104	67 - 120	5	30
Benzene	50.0	52.66		ug/L		105	70 - 130	0	30
Bromobenzene	50.0	55.13		ug/L		110	70 - 130	1	30
Bromoform	50.0	46.80		ug/L		94	69 - 129	3	30
Bromomethane	50.0	70.45		ug/L		141	28 - 192	2	30
2-Butanone (MEK)	250	267.7		ug/L		107	69 - 120	5	30
Carbon disulfide	50.0	56.19		ug/L		112	70 - 130	1	30
Carbon tetrachloride	50.0	46.71		ug/L		93	70 - 130	2	30
Chlorobenzene	50.0	53.69		ug/L		107	70 - 130	0	30
Chlorobromomethane	50.0	54.90		ug/L		110	70 - 130	1	30
Chlorodibromomethane	50.0	48.94		ug/L		98	70 - 130	0	30
Chloroethane	50.0	70.15		ug/L		140	31 - 213	7	30

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

Lab Sample ID: LCSD 680-823911/7
Matrix: Water
Analysis Batch: 823911

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	49.72		ug/L		99	70 - 130	2	30
Chloromethane	50.0	61.36		ug/L		123	59 - 127	2	30
2-Chlorotoluene	50.0	54.50		ug/L		109	70 - 130	0	30
4-Chlorotoluene	50.0	54.93		ug/L		110	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	52.49		ug/L		105	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	54.92		ug/L		110	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	45.08		ug/L		90	70 - 130	6	30
Dibromomethane	50.0	54.45		ug/L		109	70 - 130	1	30
1,2-Dichlorobenzene	50.0	53.29		ug/L		107	70 - 130	2	30
1,3-Dichlorobenzene	50.0	53.88		ug/L		108	70 - 130	0	30
1,4-Dichlorobenzene	50.0	54.10		ug/L		108	70 - 130	0	30
Dichlorobromomethane	50.0	49.75		ug/L		99	70 - 130	2	30
Dichlorodifluoromethane	50.0	68.47	*+	ug/L		137	70 - 130	5	40
1,1-Dichloroethane	50.0	53.18		ug/L		106	70 - 130	0	30
1,2-Dichloroethane	50.0	52.38		ug/L		105	70 - 130	2	50
1,1-Dichloroethene	50.0	55.85		ug/L		112	70 - 130	0	20
1,2-Dichloropropane	50.0	53.23		ug/L		106	70 - 130	0	20
1,3-Dichloropropane	50.0	56.11		ug/L		112	70 - 130	2	20
2,2-Dichloropropane	50.0	54.20		ug/L		108	70 - 130	1	20
1,1-Dichloropropene	50.0	54.72		ug/L		109	70 - 130	1	20
Ethylbenzene	50.0	53.86		ug/L		108	70 - 130	0	20
Ethylene Dibromide	50.0	57.51		ug/L		115	70 - 130	2	30
Hexachlorobutadiene	50.0	54.70		ug/L		109	70 - 130	0	20
Hexane	50.0	58.01		ug/L		116	70 - 130	2	30
2-Hexanone	250	274.4		ug/L		110	70 - 130	6	20
Iodomethane	50.0	50.16		ug/L		100	52 - 129	4	30
Isopropylbenzene	50.0	52.18		ug/L		104	70 - 130	0	30
4-Isopropyltoluene	50.0	55.01		ug/L		110	70 - 130	0	30
Methylene Chloride	50.0	49.55		ug/L		99	70 - 130	0	30
4-Methyl-2-pentanone (MIBK)	250	279.2		ug/L		112	68 - 120	5	30
Methyl tert-butyl ether	50.0	54.95		ug/L		110	70 - 130	3	30
m-Xylene & p-Xylene	50.0	53.71		ug/L		107	70 - 130	1	30
Naphthalene	50.0	55.38		ug/L		111	57 - 149	4	30
n-Butylbenzene	50.0	56.51		ug/L		113	70 - 130	1	30
n-Heptane	50.0	59.12		ug/L		118	65 - 120	2	30
N-Propylbenzene	50.0	52.74		ug/L		105	70 - 130	1	30
o-Xylene	50.0	52.65		ug/L		105	70 - 130	1	30
sec-Butylbenzene	50.0	52.10		ug/L		104	70 - 130	0	30
Styrene	50.0	55.67		ug/L		111	70 - 130	0	30
tert-Butylbenzene	50.0	51.71		ug/L		103	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	50.93		ug/L		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	53.26		ug/L		107	70 - 130	4	30
Tetrachloroethene	50.0	51.64		ug/L		103	70 - 130	0	30
Toluene	50.0	53.14		ug/L		106	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	49.51		ug/L		99	67 - 120	6	30
trans-1,2-Dichloroethene	50.0	52.71		ug/L		105	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	55.11		ug/L		110	70 - 130	2	30
1,2,3-Trichlorobenzene	50.0	52.79		ug/L		106	61 - 141	2	30
1,2,4-Trichlorobenzene	50.0	54.79		ug/L		110	70 - 130	2	30

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

Lab Sample ID: LCSD 680-823911/7
Matrix: Water
Analysis Batch: 823911

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-Trichloroethane			50.0	49.54		ug/L		99	70 - 130	0	30
1,1,2-Trichloroethane			50.0	56.69		ug/L		113	70 - 130	0	30
Trichloroethene			50.0	52.35		ug/L		105	70 - 130	0	30
Trichlorofluoromethane			50.0	109.7	*+	ug/L		219	63 - 142	6	30
1,2,3-Trichloropropane			50.0	54.82		ug/L		110	70 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	51.89		ug/L		104	63 - 141	2	30
1,2,4-Trimethylbenzene			50.0	55.04		ug/L		110	70 - 130	1	30
1,3,5-Trimethylbenzene			50.0	54.57		ug/L		109	70 - 130	1	30
Vinyl acetate			100	98.02		ug/L		98	67 - 135	2	30
Vinyl chloride			50.0	54.82		ug/L		110	66 - 129	12	30
Xylenes, Total			100	106.4		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-824158/10
Matrix: Water
Analysis Batch: 824158

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			02/23/24 13:09	1
Benzene	<0.270		1.00	0.270	ug/L			02/23/24 13:09	1
Bromobenzene	<0.240		1.00	0.240	ug/L			02/23/24 13:09	1
Bromoform	<0.590		1.00	0.590	ug/L			02/23/24 13:09	1
Bromomethane	<3.70		5.00	3.70	ug/L			02/23/24 13:09	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			02/23/24 13:09	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			02/23/24 13:09	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			02/23/24 13:09	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			02/23/24 13:09	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			02/23/24 13:09	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			02/23/24 13:09	1
Chloroethane	<4.60		5.00	4.60	ug/L			02/23/24 13:09	1
Chloroform	<0.270		1.00	0.270	ug/L			02/23/24 13:09	1
Chloromethane	<0.540		1.00	0.540	ug/L			02/23/24 13:09	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			02/23/24 13:09	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			02/23/24 13:09	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			02/23/24 13:09	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			02/23/24 13:09	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			02/23/24 13:09	1
Dibromomethane	<0.340		1.00	0.340	ug/L			02/23/24 13:09	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/23/24 13:09	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/23/24 13:09	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			02/23/24 13:09	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			02/23/24 13:09	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			02/23/24 13:09	1

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

Lab Sample ID: MB 680-824158/10
Matrix: Water
Analysis Batch: 824158

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			02/23/24 13:09	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			02/23/24 13:09	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			02/23/24 13:09	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			02/23/24 13:09	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			02/23/24 13:09	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			02/23/24 13:09	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			02/23/24 13:09	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			02/23/24 13:09	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			02/23/24 13:09	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			02/23/24 13:09	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			02/23/24 13:09	1
Hexane	<0.650		5.00	0.650	ug/L			02/23/24 13:09	1
2-Hexanone	<3.20		10.0	3.20	ug/L			02/23/24 13:09	1
Iodomethane	<3.90		10.0	3.90	ug/L			02/23/24 13:09	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			02/23/24 13:09	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			02/23/24 13:09	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			02/23/24 13:09	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			02/23/24 13:09	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			02/23/24 13:09	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			02/23/24 13:09	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			02/23/24 13:09	1
Naphthalene	<2.40		5.00	2.40	ug/L			02/23/24 13:09	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			02/23/24 13:09	1
n-Heptane	<0.430		1.00	0.430	ug/L			02/23/24 13:09	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			02/23/24 13:09	1
o-Xylene	<0.260		1.00	0.260	ug/L			02/23/24 13:09	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			02/23/24 13:09	1
Styrene	<0.270		1.00	0.270	ug/L			02/23/24 13:09	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			02/23/24 13:09	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			02/23/24 13:09	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			02/23/24 13:09	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			02/23/24 13:09	1
Toluene	<0.250		1.00	0.250	ug/L			02/23/24 13:09	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			02/23/24 13:09	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			02/23/24 13:09	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			02/23/24 13:09	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			02/23/24 13:09	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			02/23/24 13:09	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			02/23/24 13:09	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			02/23/24 13:09	1
Trichloroethene	<0.200		1.00	0.200	ug/L			02/23/24 13:09	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			02/23/24 13:09	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			02/23/24 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			02/23/24 13:09	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			02/23/24 13:09	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			02/23/24 13:09	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			02/23/24 13:09	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			02/23/24 13:09	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			02/23/24 13:09	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*02/23/24 13:09*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/23/24 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/23/24 13:09*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/23/24 13:09*	*1*

Lab Sample ID: LCS 680-824158/6
Matrix: Water
Analysis Batch: 824158

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	218.9		ug/L		88	67 - 120
Benzene	50.0	52.66		ug/L		105	70 - 130
Bromobenzene	50.0	55.97		ug/L		112	70 - 130
Bromoform	50.0	44.97		ug/L		90	69 - 129
Bromomethane	50.0	76.87		ug/L		154	28 - 192
2-Butanone (MEK)	250	215.4		ug/L		86	69 - 120
Carbon disulfide	50.0	56.24		ug/L		112	70 - 130
Carbon tetrachloride	50.0	47.11		ug/L		94	70 - 130
Chlorobenzene	50.0	53.42		ug/L		107	70 - 130
Chlorobromomethane	50.0	53.67		ug/L		107	70 - 130
Chlorodibromomethane	50.0	49.44		ug/L		99	70 - 130
Chloroethane	50.0	76.10		ug/L		152	31 - 213
Chloroform	50.0	49.37		ug/L		99	70 - 130
2-Chlorotoluene	50.0	55.28		ug/L		111	70 - 130
4-Chlorotoluene	50.0	55.80		ug/L		112	70 - 130
cis-1,2-Dichloroethene	50.0	52.59		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	54.48		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	36.41		ug/L		73	70 - 130
Dibromomethane	50.0	52.08		ug/L		104	70 - 130
1,2-Dichlorobenzene	50.0	51.93		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	53.64		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	52.99		ug/L		106	70 - 130
Dichlorobromomethane	50.0	48.68		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	53.07		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	49.91		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	56.28		ug/L		113	70 - 130
1,2-Dichloropropane	50.0	53.25		ug/L		106	70 - 130
1,3-Dichloropropane	50.0	54.84		ug/L		110	70 - 130
2,2-Dichloropropane	50.0	55.65		ug/L		111	70 - 130
1,1-Dichloropropene	50.0	55.29		ug/L		111	70 - 130
Ethylbenzene	50.0	52.84		ug/L		106	70 - 130
Ethylene Dibromide	50.0	56.20		ug/L		112	70 - 130
Hexachlorobutadiene	50.0	52.77		ug/L		106	70 - 130
Hexane	50.0	57.25		ug/L		115	70 - 130
2-Hexanone	250	227.9		ug/L		91	70 - 130
Iodomethane	50.0	56.77		ug/L		114	52 - 129
Isopropylbenzene	50.0	53.64		ug/L		107	70 - 130
4-Isopropyltoluene	50.0	55.03		ug/L		110	70 - 130
Methylene Chloride	50.0	50.85		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	250	237.9		ug/L		95	68 - 120
Methyl tert-butyl ether	50.0	49.79		ug/L		100	70 - 130

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

Lab Sample ID: LCS 680-824158/6
Matrix: Water
Analysis Batch: 824158

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	50.0	54.21		ug/L		108	70 - 130
Naphthalene	50.0	48.69		ug/L		97	57 - 149
n-Butylbenzene	50.0	54.00		ug/L		108	70 - 130
n-Heptane	50.0	57.35		ug/L		115	65 - 120
N-Propylbenzene	50.0	55.02		ug/L		110	70 - 130
o-Xylene	50.0	53.07		ug/L		106	70 - 130
sec-Butylbenzene	50.0	52.46		ug/L		105	70 - 130
Styrene	50.0	58.11		ug/L		116	70 - 130
tert-Butylbenzene	50.0	53.26		ug/L		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.41		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.42		ug/L		97	70 - 130
Tetrachloroethene	50.0	51.70		ug/L		103	70 - 130
Toluene	50.0	52.66		ug/L		105	70 - 130
trans-1,4-Dichloro-2-butene	50.0	45.16		ug/L		90	67 - 120
trans-1,2-Dichloroethene	50.0	53.33		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	54.79		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	50.0	50.07		ug/L		100	61 - 141
1,2,4-Trichlorobenzene	50.0	52.18		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	49.62		ug/L		99	70 - 130
1,1,2-Trichloroethane	50.0	55.55		ug/L		111	70 - 130
Trichloroethene	50.0	53.56		ug/L		107	70 - 130
1,2,3-Trichloropropane	50.0	49.55		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.56		ug/L		107	63 - 141
1,2,4-Trimethylbenzene	50.0	55.47		ug/L		111	70 - 130
1,3,5-Trimethylbenzene	50.0	56.51		ug/L		113	70 - 130
Vinyl acetate	100	80.59		ug/L		81	67 - 135
Xylenes, Total	100	107.3		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-824158/7
Matrix: Water
Analysis Batch: 824158

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
Acetone	250	225.9		ug/L		90	67 - 120	3	30
Benzene	50.0	52.94		ug/L		106	70 - 130	1	30
Bromobenzene	50.0	56.68		ug/L		113	70 - 130	1	30
Bromoform	50.0	45.85		ug/L		92	69 - 129	2	30
Bromomethane	50.0	77.38		ug/L		155	28 - 192	1	30
2-Butanone (MEK)	250	224.0		ug/L		90	69 - 120	4	30
Carbon disulfide	50.0	56.42		ug/L		113	70 - 130	0	30
Carbon tetrachloride	50.0	46.96		ug/L		94	70 - 130	0	30
Chlorobenzene	50.0	53.91		ug/L		108	70 - 130	1	30

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

Lab Sample ID: LCSD 680-824158/7
Matrix: Water
Analysis Batch: 824158

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	55.64		ug/L		111	70 - 130	4	30
Chlorodibromomethane	50.0	51.20		ug/L		102	70 - 130	3	30
Chloroethane	50.0	75.22		ug/L		150	31 - 213	1	30
Chloroform	50.0	50.48		ug/L		101	70 - 130	2	30
2-Chlorotoluene	50.0	55.94		ug/L		112	70 - 130	1	30
4-Chlorotoluene	50.0	56.18		ug/L		112	70 - 130	1	30
cis-1,2-Dichloroethene	50.0	52.67		ug/L		105	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	55.32		ug/L		111	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	38.87		ug/L		78	70 - 130	7	30
Dibromomethane	50.0	54.27		ug/L		109	70 - 130	4	30
1,2-Dichlorobenzene	50.0	53.32		ug/L		107	70 - 130	3	30
1,3-Dichlorobenzene	50.0	53.34		ug/L		107	70 - 130	1	30
1,4-Dichlorobenzene	50.0	53.30		ug/L		107	70 - 130	1	30
Dichlorobromomethane	50.0	49.82		ug/L		100	70 - 130	2	30
1,1-Dichloroethane	50.0	52.73		ug/L		105	70 - 130	1	30
1,2-Dichloroethane	50.0	51.40		ug/L		103	70 - 130	3	50
1,1-Dichloroethene	50.0	56.81		ug/L		114	70 - 130	1	20
1,2-Dichloropropane	50.0	53.98		ug/L		108	70 - 130	1	20
1,3-Dichloropropane	50.0	57.05		ug/L		114	70 - 130	4	20
2,2-Dichloropropane	50.0	55.04		ug/L		110	70 - 130	1	20
1,1-Dichloropropene	50.0	54.92		ug/L		110	70 - 130	1	20
Ethylbenzene	50.0	53.29		ug/L		107	70 - 130	1	20
Ethylene Dibromide	50.0	58.15		ug/L		116	70 - 130	3	30
Hexachlorobutadiene	50.0	53.55		ug/L		107	70 - 130	1	20
Hexane	50.0	56.37		ug/L		113	70 - 130	2	30
2-Hexanone	250	240.5		ug/L		96	70 - 130	5	20
Iodomethane	50.0	56.36		ug/L		113	52 - 129	1	30
Isopropylbenzene	50.0	53.73		ug/L		107	70 - 130	0	30
4-Isopropyltoluene	50.0	54.86		ug/L		110	70 - 130	0	30
Methylene Chloride	50.0	51.20		ug/L		102	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	250	250.8		ug/L		100	68 - 120	5	30
Methyl tert-butyl ether	50.0	52.27		ug/L		105	70 - 130	5	30
m-Xylene & p-Xylene	50.0	54.02		ug/L		108	70 - 130	0	30
Naphthalene	50.0	49.54		ug/L		99	57 - 149	2	30
n-Butylbenzene	50.0	55.13		ug/L		110	70 - 130	2	30
n-Heptane	50.0	57.08		ug/L		114	65 - 120	0	30
N-Propylbenzene	50.0	54.69		ug/L		109	70 - 130	1	30
o-Xylene	50.0	53.94		ug/L		108	70 - 130	2	30
sec-Butylbenzene	50.0	53.17		ug/L		106	70 - 130	1	30
Styrene	50.0	57.53		ug/L		115	70 - 130	1	30
tert-Butylbenzene	50.0	53.38		ug/L		107	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	50.82		ug/L		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	50.72		ug/L		101	70 - 130	5	30
Tetrachloroethene	50.0	51.93		ug/L		104	70 - 130	0	30
Toluene	50.0	53.24		ug/L		106	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	47.05		ug/L		94	67 - 120	4	30
trans-1,2-Dichloroethene	50.0	53.90		ug/L		108	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	55.65		ug/L		111	70 - 130	2	30
1,2,3-Trichlorobenzene	50.0	50.41		ug/L		101	61 - 141	1	30

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

Lab Sample ID: LCSD 680-824158/7
Matrix: Water
Analysis Batch: 824158

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
1,2,4-Trichlorobenzene			50.0	52.47		ug/L		105	70 - 130	1	30
1,1,1-Trichloroethane			50.0	49.26		ug/L		99	70 - 130	1	30
1,1,2-Trichloroethane			50.0	58.17		ug/L		116	70 - 130	5	30
Trichloroethene			50.0	54.63		ug/L		109	70 - 130	2	30
1,2,3-Trichloropropane			50.0	51.46		ug/L		103	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.21		ug/L		104	63 - 141	3	30
1,2,4-Trimethylbenzene			50.0	56.32		ug/L		113	70 - 130	2	30
1,3,5-Trimethylbenzene			50.0	56.75		ug/L		114	70 - 130	0	30
Vinyl acetate			100	77.79		ug/L		78	67 - 135	4	30
Xylenes, Total			100	108.0		ug/L		108	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Toluene-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 823688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246854-1	SW-01A	Total/NA	Water	8260D	
680-246854-2	SW-01B	Total/NA	Water	8260D	
680-246854-3	SW-01	Total/NA	Water	8260D	
680-246854-4	SW-02A	Total/NA	Water	8260D	
680-246854-5	SW-02	Total/NA	Water	8260D	
680-246854-6	SW-03	Total/NA	Water	8260D	
680-246854-7	DUP-SW-02152024	Total/NA	Water	8260D	
680-246854-8	LD-Sewer	Total/NA	Water	8260D	
680-246854-9	EB-02152024	Total/NA	Water	8260D	
680-246854-10	FB-02152024	Total/NA	Water	8260D	
680-246854-11	TB-02152024	Total/NA	Water	8260D	
MB 680-823688/10	Method Blank	Total/NA	Water	8260D	
LCS 680-823688/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-823688/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 823911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246854-9	EB-02152024	Total/NA	Water	8260D	
680-246854-10	FB-02152024	Total/NA	Water	8260D	
680-246854-11	TB-02152024	Total/NA	Water	8260D	
MB 680-823911/10	Method Blank	Total/NA	Water	8260D	
LCS 680-823911/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-823911/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 824158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246854-3	SW-01	Total/NA	Water	8260D	
680-246854-8	LD-Sewer	Total/NA	Water	8260D	
MB 680-824158/10	Method Blank	Total/NA	Water	8260D	
LCS 680-824158/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-824158/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: SW-01A
Date Collected: 02/15/24 18:05
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-1
Matrix: Water

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	823688	02/21/24 14:34	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: SW-01B
Date Collected: 02/15/24 18:00
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-2
Matrix: Water

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	823688	02/21/24 14:56	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: SW-01
Date Collected: 02/15/24 17:45
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-3
Matrix: Water

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	823688	02/21/24 15:18	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	824158	02/23/24 13:54	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: SW-02A
Date Collected: 02/15/24 17:30
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-4
Matrix: Water

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	823688	02/21/24 15:40	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: SW-02
Date Collected: 02/15/24 17:25
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-5
Matrix: Water

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	823688	02/21/24 16:02	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: SW-03
Date Collected: 02/15/24 17:15
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246854-6
Matrix: Water

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	823688	02/21/24 16:23	P1C	EET SAV
	Instrument ID: CMSAB									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Client Sample ID: DUP-SW-02152024

Lab Sample ID: 680-246854-7

Date Collected: 02/15/24 00:00
Matrix: Water
Date Received: 02/16/24 10:03

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	823688	02/21/24 16:45	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: LD-Sewer

Lab Sample ID: 680-246854-8

Date Collected: 02/15/24 16:50
Matrix: Water
Date Received: 02/16/24 10:03

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	823688	02/21/24 17:07	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	824158	02/23/24 14:16	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: EB-02152024

Lab Sample ID: 680-246854-9

Date Collected: 02/15/24 16:40
Matrix: Water
Date Received: 02/16/24 10:03

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	823688	02/21/24 13:29	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	823911	02/22/24 13:36	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: FB-02152024

Lab Sample ID: 680-246854-10

Date Collected: 02/15/24 16:00
Matrix: Water
Date Received: 02/16/24 10:03

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	823688	02/21/24 13:51	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	823911	02/22/24 13:58	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: TB-02152024

Lab Sample ID: 680-246854-11

Date Collected: 02/15/24 00:00
Matrix: Water
Date Received: 02/16/24 10:03

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	823688	02/21/24 14:13	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	823911	02/22/24 14:20	P1C	EET SAV
	Instrument ID: CMSAB									

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: 680-246854-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246854-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ethan Dinwiddie / Emma Storey	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154360-55442.3
Client Contact: Mr. Ethan Dinwiddie	Phone: 919-436-2965	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 3 of 3
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): Standard			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site: 204 N. Graham-Hopedale Rd, Burlington, NC	SSOW#:			

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)	8260D - VOCs-NC 02L List - Water	RSK_175 - Methane, Ethane, & Ethene	SM5310_TOC_B - Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	S		
SW-01A	02/15/24	1805	G	W			X				
SW-01B		1800	G	W			X				
SW-01		1745	G	W			X				
SW-02A		1730	G	W			X				
SW-02		1725	G	W			X				
SW-03		1715	G	W			X				
DUP-SW ~~20240215~~ 02152024		—	G	W			X				
LD-Sewer		1650	G	W			X				
EB-02152024		1640	G	W			X				
FB-02152024		1600	G	W			X				
TB-02152024		—	G	W			X				

680-246854 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
	02/15/24 / 2000	Terracon		2-16-24 1003	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 2.7 / 2.7

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-246854-1

Login Number: 246854

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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 2/23/2024 7:45:30 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-246956-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
John Andros, Project Manager I
John.Andros@et.eurofinsus.com
Designee for
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

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.
S1+	Surrogate recovery exceeds control limits, high biased.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246956-1	WAP-Sump1-6ft	Solid	02/20/24 16:20	02/21/24 10:05
680-246956-2	WAP-Sump1-8ft	Solid	02/20/24 16:25	02/21/24 10:05
680-246956-3	WAP-Sump2-6ft	Solid	02/20/24 16:30	02/21/24 10:05
680-246956-4	WAP-Sump2-8ft	Solid	02/20/24 16:35	02/21/24 10:05
680-246956-5	WAP-Sump3-6ft	Solid	02/20/24 16:40	02/21/24 10:05
680-246956-6	WAP-Sump3-8ft	Solid	02/20/24 16:45	02/21/24 10:05

Job ID: 680-246956-1 Eurofins Savannah

Job Narrative
680-246956-1

Receipt
The samples were received on 2/21/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump1-6ft
Date Collected: 02/20/24 16:20
Date Received: 02/21/24 10:05

Lab Sample ID: 680-246956-1
Matrix: Solid
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	43.6	J	54.1	11.9	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Benzene	<2.60		5.41	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Bromobenzene	<1.84		5.41	1.84	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Chlorobromomethane	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Dichlorobromomethane	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Bromoform	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Bromomethane	<2.60	*+	5.41	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
2-Butanone (MEK)	<9.96		27.1	9.96	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
n-Butylbenzene	<2.06		5.41	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
sec-Butylbenzene	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
tert-Butylbenzene	<2.71		5.41	2.71	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Carbon disulfide	<2.27		5.41	2.27	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Carbon tetrachloride	<2.27		5.41	2.27	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Chlorobenzene	<1.52		5.41	1.52	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Chloroethane	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Chloroform	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Chloromethane	<2.60		5.41	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
2-Chlorotoluene	<2.49		5.41	2.49	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
4-Chlorotoluene	<2.27		5.41	2.27	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Chlorodibromomethane	<2.27		5.41	2.27	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2-Dibromo-3-Chloropropane	<1.73		10.8	1.73	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Ethylene Dibromide	<1.84		5.41	1.84	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Dibromomethane	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2-Dichlorobenzene	<1.84		5.41	1.84	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,3-Dichlorobenzene	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,4-Dichlorobenzene	<1.95		5.41	1.95	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
trans-1,4-Dichloro-2-butene	<2.60		10.8	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Dichlorodifluoromethane	<3.46		5.41	3.46	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1-Dichloroethane	<3.14		5.41	3.14	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2-Dichloroethane	<2.49		5.41	2.49	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
cis-1,2-Dichloroethene	<3.14		5.41	3.14	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
trans-1,2-Dichloroethene	<2.49		5.41	2.49	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1-Dichloroethene	<3.90		5.41	3.90	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2-Dichloropropane	<2.81		5.41	2.81	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,3-Dichloropropane	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
2,2-Dichloropropane	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1-Dichloropropene	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
cis-1,3-Dichloropropene	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
trans-1,3-Dichloropropene	<2.81		5.41	2.81	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Ethylbenzene	<2.27		5.41	2.27	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Hexachlorobutadiene	<4.44		5.41	4.44	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
2-Hexanone	<20.6		27.1	20.6	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Iodomethane	<1.84		5.41	1.84	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Isopropylbenzene	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
4-Isopropyltoluene	<2.81		5.41	2.81	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Methylene Chloride	<8.66		10.8	8.66	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
4-Methyl-2-pentanone (MIBK)	<19.5		27.1	19.5	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Methyl tert-butyl ether	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Naphthalene	<3.36		5.41	3.36	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1

Client Sample ID: WAP-Sump1-6ft

Lab Sample ID: 680-246956-1

Date Collected: 02/20/24 16:20
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Styrene	<2.06		5.41	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1,1,2-Tetrachloroethane	<1.41		5.41	1.41	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1,2,2-Tetrachloroethane	<2.27		5.41	2.27	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Tetrachloroethene	**4.31**	**J**	5.41	2.81	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Toluene	<2.81		5.41	2.81	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2,3-Trichlorobenzene	<2.17		5.41	2.17	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2,4-Trichlorobenzene	<2.71		5.41	2.71	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1,1-Trichloroethane	<2.81		5.41	2.81	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1,2-Trichloroethane	<1.62		5.41	1.62	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Trichloroethene	<1.95		5.41	1.95	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Trichlorofluoromethane	<3.36		5.41	3.36	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2,3-Trichloropropane	<1.95		5.41	1.95	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<3.14		5.41	3.14	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,2,4-Trimethylbenzene	<2.71		5.41	2.71	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
1,3,5-Trimethylbenzene	<2.60		5.41	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Vinyl acetate	<5.95		10.8	5.95	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Vinyl chloride	<3.03		5.41	3.03	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
o-Xylene	<2.49		5.41	2.49	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
m-Xylene & p-Xylene	<2.38		5.41	2.38	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Xylenes, Total	<3.90		10.8	3.90	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Isopropyl ether	<1.62		10.8	1.62	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Hexane	<1.84		5.41	1.84	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
n-Heptane	<4.66		5.41	4.66	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1
Ethyl acetate	<10.8		10.8	10.8	ug/Kg	☼	02/21/24 15:08	02/22/24 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*65 - 130*	*02/21/24 15:08*	*02/22/24 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*	*02/21/24 15:08*	*02/22/24 18:47*	*1*
Dibromofluoromethane (Surr)	*107*		*65 - 130*	*02/21/24 15:08*	*02/22/24 18:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*65 - 130*	*02/21/24 15:08*	*02/22/24 18:47*	*1*

Client Sample ID: WAP-Sump1-8ft

Lab Sample ID: 680-246956-2

Date Collected: 02/20/24 16:25
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**16.6**	**J**	49.0	10.8	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Benzene	<2.35		4.90	2.35	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Bromobenzene	<1.67		4.90	1.67	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Chlorobromomethane	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Dichlorobromomethane	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Bromoform	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Bromomethane	<2.35	*+	4.90	2.35	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
2-Butanone (MEK)	<9.02		24.5	9.02	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
n-Butylbenzene	<1.86		4.90	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
sec-Butylbenzene	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
tert-Butylbenzene	<2.45		4.90	2.45	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Carbon disulfide	<2.06		4.90	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump1-8ft
Date Collected: 02/20/24 16:25
Date Received: 02/21/24 10:05

Lab Sample ID: 680-246956-2
Matrix: Solid
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<2.06		4.90	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Chlorobenzene	<1.37		4.90	1.37	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Chloroethane	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Chloroform	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Chloromethane	<2.35		4.90	2.35	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
2-Chlorotoluene	<2.25		4.90	2.25	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
4-Chlorotoluene	<2.06		4.90	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Chlorodibromomethane	<2.06		4.90	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2-Dibromo-3-Chloropropane	<1.57		9.80	1.57	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Ethylene Dibromide	<1.67		4.90	1.67	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Dibromomethane	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2-Dichlorobenzene	<1.67		4.90	1.67	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,3-Dichlorobenzene	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,4-Dichlorobenzene	<1.76		4.90	1.76	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
trans-1,4-Dichloro-2-butene	<2.35		9.80	2.35	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Dichlorodifluoromethane	<3.14		4.90	3.14	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1-Dichloroethane	<2.84		4.90	2.84	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2-Dichloroethane	<2.25		4.90	2.25	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
cis-1,2-Dichloroethene	<2.84		4.90	2.84	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
trans-1,2-Dichloroethene	<2.25		4.90	2.25	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1-Dichloroethene	<3.53		4.90	3.53	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2-Dichloropropane	<2.55		4.90	2.55	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,3-Dichloropropane	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
2,2-Dichloropropane	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1-Dichloropropene	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
cis-1,3-Dichloropropene	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
trans-1,3-Dichloropropene	<2.55		4.90	2.55	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Ethylbenzene	<2.06		4.90	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Hexachlorobutadiene	<4.02		4.90	4.02	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
2-Hexanone	<18.6		24.5	18.6	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Iodomethane	<1.67		4.90	1.67	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Isopropylbenzene	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
4-Isopropyltoluene	<2.55		4.90	2.55	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Methylene Chloride	<7.84		9.80	7.84	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
4-Methyl-2-pentanone (MIBK)	<17.6		24.5	17.6	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Methyl tert-butyl ether	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Naphthalene	<3.04		4.90	3.04	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
N-Propylbenzene	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Styrene	<1.86		4.90	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1,1,2-Tetrachloroethane	<1.27		4.90	1.27	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1,2,2-Tetrachloroethane	<2.06		4.90	2.06	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Tetrachloroethene	<2.55		4.90	2.55	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Toluene	<2.55		4.90	2.55	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2,3-Trichlorobenzene	<1.96		4.90	1.96	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2,4-Trichlorobenzene	<2.45		4.90	2.45	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1,1-Trichloroethane	<2.55		4.90	2.55	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1,2-Trichloroethane	<1.47		4.90	1.47	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Trichloroethene	<1.76		4.90	1.76	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Trichlorofluoromethane	<3.04		4.90	3.04	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1

Client Sample ID: WAP-Sump1-8ft

Lab Sample ID: 680-246956-2

Date Collected: 02/20/24 16:25
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<1.76		4.90	1.76	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.84		4.90	2.84	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,2,4-Trimethylbenzene	<2.45		4.90	2.45	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
1,3,5-Trimethylbenzene	<2.35		4.90	2.35	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Vinyl acetate	<5.39		9.80	5.39	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Vinyl chloride	<2.74		4.90	2.74	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
o-Xylene	<2.25		4.90	2.25	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
m-Xylene & p-Xylene	<2.16		4.90	2.16	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Xylenes, Total	<3.53		9.80	3.53	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Isopropyl ether	<1.47		9.80	1.47	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Hexane	<1.67		4.90	1.67	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
n-Heptane	<4.21		4.90	4.21	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1
Ethyl acetate	<9.80		9.80	9.80	ug/Kg	☼	02/21/24 15:08	02/22/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:09*	*1*
Dibromofluoromethane (Surr)	*109*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:09*	*1*

Client Sample ID: WAP-Sump2-6ft

Lab Sample ID: 680-246956-3

Date Collected: 02/20/24 16:30
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21.6	J	54.8	12.0	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Benzene	<2.63		5.48	2.63	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Bromobenzene	<1.86		5.48	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Chlorobromomethane	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Dichlorobromomethane	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Bromoform	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Bromomethane	<2.63	*+	5.48	2.63	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
2-Butanone (MEK)	<10.1		27.4	10.1	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
n-Butylbenzene	<2.08		5.48	2.08	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
sec-Butylbenzene	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
tert-Butylbenzene	<2.74		5.48	2.74	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Carbon disulfide	<2.30		5.48	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Carbon tetrachloride	<2.30		5.48	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Chlorobenzene	<1.53		5.48	1.53	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Chloroethane	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Chloroform	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Chloromethane	<2.63		5.48	2.63	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
2-Chlorotoluene	<2.52		5.48	2.52	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
4-Chlorotoluene	<2.30		5.48	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Chlorodibromomethane	<2.30		5.48	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2-Dibromo-3-Chloropropane	<1.75		11.0	1.75	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Ethylene Dibromide	<1.86		5.48	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Dibromomethane	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2-Dichlorobenzene	<1.86		5.48	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump2-6ft
Date Collected: 02/20/24 16:30
Date Received: 02/21/24 10:05

Lab Sample ID: 680-246956-3
Matrix: Solid
Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,4-Dichlorobenzene	<1.97		5.48	1.97	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
trans-1,4-Dichloro-2-butene	<2.63		11.0	2.63	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Dichlorodifluoromethane	<3.50		5.48	3.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1-Dichloroethane	<3.18		5.48	3.18	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2-Dichloroethane	<2.52		5.48	2.52	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
cis-1,2-Dichloroethene	**90.5**		5.48	3.18	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
trans-1,2-Dichloroethene	<2.52		5.48	2.52	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1-Dichloroethene	<3.94		5.48	3.94	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2-Dichloropropane	<2.85		5.48	2.85	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,3-Dichloropropane	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
2,2-Dichloropropane	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1-Dichloropropene	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
cis-1,3-Dichloropropene	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
trans-1,3-Dichloropropene	<2.85		5.48	2.85	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Ethylbenzene	<2.30		5.48	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Hexachlorobutadiene	<4.49		5.48	4.49	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
2-Hexanone	<20.8		27.4	20.8	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Iodomethane	<1.86		5.48	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Isopropylbenzene	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
4-Isopropyltoluene	<2.85		5.48	2.85	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Methylene Chloride	<8.76		11.0	8.76	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
4-Methyl-2-pentanone (MIBK)	<19.7		27.4	19.7	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Methyl tert-butyl ether	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Naphthalene	<3.40		5.48	3.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
N-Propylbenzene	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Styrene	<2.08		5.48	2.08	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1,1,2-Tetrachloroethane	<1.42		5.48	1.42	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1,2,2-Tetrachloroethane	<2.30		5.48	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Tetrachloroethene	**20800**		1060	551	ug/Kg	☼	02/21/24 15:08	02/23/24 18:05	200
Toluene	<2.85		5.48	2.85	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2,3-Trichlorobenzene	<2.19		5.48	2.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2,4-Trichlorobenzene	<2.74		5.48	2.74	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1,1-Trichloroethane	<2.85		5.48	2.85	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1,2-Trichloroethane	<1.64		5.48	1.64	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Trichloroethene	**159**		5.48	1.97	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Trichlorofluoromethane	<3.40		5.48	3.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,2,3-Trichloropropane	<1.97		5.48	1.97	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**3100**		1060	614	ug/Kg	☼	02/21/24 15:08	02/23/24 18:05	200
1,2,4-Trimethylbenzene	<2.74		5.48	2.74	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
1,3,5-Trimethylbenzene	<2.63		5.48	2.63	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Vinyl acetate	<6.02		11.0	6.02	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Vinyl chloride	<3.07		5.48	3.07	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
o-Xylene	<2.52		5.48	2.52	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
m-Xylene & p-Xylene	<2.41		5.48	2.41	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Xylenes, Total	<3.94		11.0	3.94	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Isopropyl ether	<1.64		11.0	1.64	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
Hexane	<1.86		5.48	1.86	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1
n-Heptane	<4.71		5.48	4.71	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump2-6ft

Lab Sample ID: 680-246956-3

Date Collected: 02/20/24 16:30
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	<11.0		11.0	11.0	ug/Kg	☼	02/21/24 15:08	02/22/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:30*	*1*
Toluene-d8 (Surr)	*125*		*65 - 130*	*02/21/24 15:08*	*02/23/24 18:05*	*200*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 130*	*02/21/24 15:08*	*02/23/24 18:05*	*200*
Dibromofluoromethane (Surr)	*101*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:30*	*1*
Dibromofluoromethane (Surr)	*119*		*65 - 130*	*02/21/24 15:08*	*02/23/24 18:05*	*200*
4-Bromofluorobenzene (Surr)	*98*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:30*	*1*
4-Bromofluorobenzene (Surr)	*107*		*65 - 130*	*02/21/24 15:08*	*02/23/24 18:05*	*200*

Client Sample ID: WAP-Sump2-8ft

Lab Sample ID: 680-246956-4

Date Collected: 02/20/24 16:35
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**18.0**	**J**	50.0	11.0	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Benzene	<2.40		5.00	2.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Bromobenzene	<1.70		5.00	1.70	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Chlorobromomethane	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Dichlorobromomethane	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Bromoform	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Bromomethane	<2.40	*+	5.00	2.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
2-Butanone (MEK)	<9.19		25.0	9.19	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
n-Butylbenzene	<1.90		5.00	1.90	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
sec-Butylbenzene	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
tert-Butylbenzene	<2.50		5.00	2.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Carbon disulfide	<2.10		5.00	2.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Carbon tetrachloride	<2.10		5.00	2.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Chlorobenzene	<1.40		5.00	1.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Chloroethane	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Chloroform	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Chloromethane	<2.40		5.00	2.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
2-Chlorotoluene	<2.30		5.00	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
4-Chlorotoluene	<2.10		5.00	2.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Chlorodibromomethane	<2.10		5.00	2.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2-Dibromo-3-Chloropropane	<1.60		9.99	1.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Ethylene Dibromide	<1.70		5.00	1.70	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Dibromomethane	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2-Dichlorobenzene	<1.70		5.00	1.70	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,3-Dichlorobenzene	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,4-Dichlorobenzene	<1.80		5.00	1.80	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
trans-1,4-Dichloro-2-butene	<2.40		9.99	2.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Dichlorodifluoromethane	<3.20		5.00	3.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1-Dichloroethane	<2.90		5.00	2.90	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2-Dichloroethane	<2.30		5.00	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
cis-1,2-Dichloroethene	**14.6**		5.00	2.90	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
trans-1,2-Dichloroethene	<2.30		5.00	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump2-8ft
Date Collected: 02/20/24 16:35
Date Received: 02/21/24 10:05

Lab Sample ID: 680-246956-4
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<3.60		5.00	3.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2-Dichloropropane	<2.60		5.00	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,3-Dichloropropane	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
2,2-Dichloropropane	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1-Dichloropropene	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
cis-1,3-Dichloropropene	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
trans-1,3-Dichloropropene	<2.60		5.00	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Ethylbenzene	<2.10		5.00	2.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Hexachlorobutadiene	<4.10		5.00	4.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
2-Hexanone	<19.0		25.0	19.0	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Iodomethane	<1.70		5.00	1.70	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Isopropylbenzene	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
4-Isopropyltoluene	<2.60		5.00	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Methylene Chloride	<8.00		9.99	8.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
4-Methyl-2-pentanone (MIBK)	<18.0		25.0	18.0	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Methyl tert-butyl ether	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Naphthalene	<3.10		5.00	3.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
N-Propylbenzene	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Styrene	<1.90		5.00	1.90	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1,1,2-Tetrachloroethane	<1.30		5.00	1.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1,2,2-Tetrachloroethane	<2.10		5.00	2.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Tetrachloroethene	**345**		197	102	ug/Kg	☼	02/21/24 15:08	02/23/24 17:43	40
Toluene	<2.60		5.00	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2,3-Trichlorobenzene	<2.00		5.00	2.00	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2,4-Trichlorobenzene	<2.50		5.00	2.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1,1-Trichloroethane	<2.60		5.00	2.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1,2-Trichloroethane	<1.50		5.00	1.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Trichloroethene	**17.7**		5.00	1.80	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Trichlorofluoromethane	<3.10		5.00	3.10	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2,3-Trichloropropane	<1.80		5.00	1.80	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**184**		5.00	2.90	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,2,4-Trimethylbenzene	<2.50		5.00	2.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
1,3,5-Trimethylbenzene	<2.40		5.00	2.40	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Vinyl acetate	<5.50		9.99	5.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Vinyl chloride	<2.80		5.00	2.80	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
o-Xylene	<2.30		5.00	2.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
m-Xylene & p-Xylene	<2.20		5.00	2.20	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Xylenes, Total	<3.60		9.99	3.60	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Isopropyl ether	<1.50		9.99	1.50	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Hexane	<1.70		5.00	1.70	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
n-Heptane	<4.30		5.00	4.30	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1
Ethyl acetate	<9.99		9.99	9.99	ug/Kg	☼	02/21/24 15:08	02/22/24 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:52*	*1*
Toluene-d8 (Surr)	*136*	*S1+*	*65 - 130*	*02/21/24 15:08*	*02/23/24 17:43*	*40*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*65 - 130*	*02/21/24 15:08*	*02/23/24 17:43*	*40*
Dibromofluoromethane (Surr)	*104*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:52*	*1*

Client Sample ID: WAP-Sump2-8ft

Lab Sample ID: 680-246956-4

Date Collected: 02/20/24 16:35
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 77.6

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*139*	*S1+*	*65 - 130*	*02/21/24 15:08*	*02/23/24 17:43*	*40*
4-Bromofluorobenzene (Surr)	*98*		*65 - 130*	*02/21/24 15:08*	*02/22/24 19:52*	*1*
4-Bromofluorobenzene (Surr)	*107*		*65 - 130*	*02/21/24 15:08*	*02/23/24 17:43*	*40*

Client Sample ID: WAP-Sump3-6ft

Lab Sample ID: 680-246956-5

Date Collected: 02/20/24 16:40
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**26.3**	**J**	51.6	11.3	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Benzene	<2.48		5.16	2.48	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Bromobenzene	<1.75		5.16	1.75	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Chlorobromomethane	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Dichlorobromomethane	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Bromoform	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Bromomethane	<2.48	*+	5.16	2.48	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
2-Butanone (MEK)	<9.49		25.8	9.49	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
n-Butylbenzene	<1.96		5.16	1.96	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
sec-Butylbenzene	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
tert-Butylbenzene	<2.58		5.16	2.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Carbon disulfide	<2.17		5.16	2.17	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Carbon tetrachloride	<2.17		5.16	2.17	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Chlorobenzene	<1.44		5.16	1.44	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Chloroethane	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Chloroform	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Chloromethane	<2.48		5.16	2.48	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
2-Chlorotoluene	<2.37		5.16	2.37	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
4-Chlorotoluene	<2.17		5.16	2.17	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Chlorodibromomethane	<2.17		5.16	2.17	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2-Dibromo-3-Chloropropane	<1.65		10.3	1.65	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Ethylene Dibromide	<1.75		5.16	1.75	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Dibromomethane	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2-Dichlorobenzene	<1.75		5.16	1.75	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,3-Dichlorobenzene	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,4-Dichlorobenzene	<1.86		5.16	1.86	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
trans-1,4-Dichloro-2-butene	<2.48		10.3	2.48	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Dichlorodifluoromethane	<3.30		5.16	3.30	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1-Dichloroethane	<2.99		5.16	2.99	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2-Dichloroethane	<2.37		5.16	2.37	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
cis-1,2-Dichloroethene	<2.99		5.16	2.99	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
trans-1,2-Dichloroethene	<2.37		5.16	2.37	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1-Dichloroethene	<3.71		5.16	3.71	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2-Dichloropropane	<2.68		5.16	2.68	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,3-Dichloropropane	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
2,2-Dichloropropane	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1-Dichloropropene	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
cis-1,3-Dichloropropene	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
trans-1,3-Dichloropropene	<2.68		5.16	2.68	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1

Client Sample ID: WAP-Sump3-6ft

Lab Sample ID: 680-246956-5

Date Collected: 02/20/24 16:40
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<2.17		5.16	2.17	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Hexachlorobutadiene	<4.23		5.16	4.23	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
2-Hexanone	<19.6		25.8	19.6	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Iodomethane	<1.75		5.16	1.75	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Isopropylbenzene	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
4-Isopropyltoluene	<2.68		5.16	2.68	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Methylene Chloride	<8.25		10.3	8.25	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
4-Methyl-2-pentanone (MIBK)	<18.6		25.8	18.6	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Methyl tert-butyl ether	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Naphthalene	<3.20		5.16	3.20	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
N-Propylbenzene	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Styrene	<1.96		5.16	1.96	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1,1,2-Tetrachloroethane	<1.34		5.16	1.34	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1,2,2-Tetrachloroethane	<2.17		5.16	2.17	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Tetrachloroethene	<2.68		5.16	2.68	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Toluene	<2.68		5.16	2.68	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2,3-Trichlorobenzene	<2.06		5.16	2.06	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2,4-Trichlorobenzene	<2.58		5.16	2.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1,1-Trichloroethane	<2.68		5.16	2.68	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1,2-Trichloroethane	<1.55		5.16	1.55	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Trichloroethene	<1.86		5.16	1.86	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Trichlorofluoromethane	<3.20		5.16	3.20	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2,3-Trichloropropane	<1.86		5.16	1.86	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.99		5.16	2.99	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,2,4-Trimethylbenzene	<2.58		5.16	2.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
1,3,5-Trimethylbenzene	<2.48		5.16	2.48	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Vinyl acetate	<5.67		10.3	5.67	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Vinyl chloride	<2.89		5.16	2.89	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
o-Xylene	<2.37		5.16	2.37	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
m-Xylene & p-Xylene	<2.27		5.16	2.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Xylenes, Total	<3.71		10.3	3.71	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Isopropyl ether	<1.55		10.3	1.55	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Hexane	<1.75		5.16	1.75	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
n-Heptane	<4.44		5.16	4.44	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1
Ethyl acetate	<10.3		10.3	10.3	ug/Kg	☼	02/21/24 15:13	02/22/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:13*	*1*
Dibromofluoromethane (Surr)	*109*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:13*	*1*

Client Sample ID: WAP-Sump3-8ft

Lab Sample ID: 680-246956-6

Date Collected: 02/20/24 16:45
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.2		46.3	10.2	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Benzene	<2.22		4.63	2.22	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1

Client Sample ID: WAP-Sump3-8ft
Date Collected: 02/20/24 16:45
Date Received: 02/21/24 10:05

Lab Sample ID: 680-246956-6
Matrix: Solid
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.58		4.63	1.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Chlorobromomethane	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Dichlorobromomethane	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Bromoform	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Bromomethane	<2.22	*+	4.63	2.22	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
2-Butanone (MEK)	<8.53		23.2	8.53	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
n-Butylbenzene	<1.76		4.63	1.76	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
sec-Butylbenzene	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
tert-Butylbenzene	<2.32		4.63	2.32	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Carbon disulfide	<1.95		4.63	1.95	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Carbon tetrachloride	<1.95		4.63	1.95	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Chlorobenzene	<1.30		4.63	1.30	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Chloroethane	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Chloroform	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Chloromethane	<2.22		4.63	2.22	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
2-Chlorotoluene	<2.13		4.63	2.13	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
4-Chlorotoluene	<1.95		4.63	1.95	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Chlorodibromomethane	<1.95		4.63	1.95	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2-Dibromo-3-Chloropropane	<1.48		9.27	1.48	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Ethylene Dibromide	<1.58		4.63	1.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Dibromomethane	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2-Dichlorobenzene	<1.58		4.63	1.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,3-Dichlorobenzene	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,4-Dichlorobenzene	<1.67		4.63	1.67	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
trans-1,4-Dichloro-2-butene	<2.22		9.27	2.22	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Dichlorodifluoromethane	<2.97		4.63	2.97	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1-Dichloroethane	<2.69		4.63	2.69	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2-Dichloroethane	<2.13		4.63	2.13	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
cis-1,2-Dichloroethene	<2.69		4.63	2.69	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
trans-1,2-Dichloroethene	<2.13		4.63	2.13	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1-Dichloroethene	<3.34		4.63	3.34	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2-Dichloropropane	<2.41		4.63	2.41	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,3-Dichloropropane	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
2,2-Dichloropropane	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1-Dichloropropene	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
cis-1,3-Dichloropropene	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
trans-1,3-Dichloropropene	<2.41		4.63	2.41	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Ethylbenzene	<1.95		4.63	1.95	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Hexachlorobutadiene	<3.80		4.63	3.80	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
2-Hexanone	<17.6		23.2	17.6	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Iodomethane	<1.58		4.63	1.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Isopropylbenzene	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
4-Isopropyltoluene	<2.41		4.63	2.41	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Methylene Chloride	<7.42		9.27	7.42	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
4-Methyl-2-pentanone (MIBK)	<16.7		23.2	16.7	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Methyl tert-butyl ether	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Naphthalene	<2.87		4.63	2.87	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
N-Propylbenzene	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Styrene	<1.76		4.63	1.76	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump3-8ft
Date Collected: 02/20/24 16:45
Date Received: 02/21/24 10:05

Lab Sample ID: 680-246956-6
Matrix: Solid
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.21		4.63	1.21	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1,2,2-Tetrachloroethane	<1.95		4.63	1.95	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Tetrachloroethene	<2.41		4.63	2.41	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Toluene	<2.41		4.63	2.41	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2,3-Trichlorobenzene	<1.85		4.63	1.85	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2,4-Trichlorobenzene	<2.32		4.63	2.32	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1,1-Trichloroethane	<2.41		4.63	2.41	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1,2-Trichloroethane	<1.39		4.63	1.39	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Trichloroethene	<1.67		4.63	1.67	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Trichlorofluoromethane	<2.87		4.63	2.87	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2,3-Trichloropropane	<1.67		4.63	1.67	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.69		4.63	2.69	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,2,4-Trimethylbenzene	<2.32		4.63	2.32	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
1,3,5-Trimethylbenzene	<2.22		4.63	2.22	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Vinyl acetate	<5.10		9.27	5.10	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Vinyl chloride	<2.60		4.63	2.60	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
o-Xylene	<2.13		4.63	2.13	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
m-Xylene & p-Xylene	<2.04		4.63	2.04	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Xylenes, Total	<3.34		9.27	3.34	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Isopropyl ether	<1.39		9.27	1.39	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Hexane	<1.58		4.63	1.58	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
n-Heptane	<3.99		4.63	3.99	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1
Ethyl acetate	<9.27		9.27	9.27	ug/Kg	☼	02/21/24 15:13	02/22/24 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:35*	*1*
Dibromofluoromethane (Surr)	*108*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*65 - 130*	*02/21/24 15:13*	*02/22/24 20:35*	*1*

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

Lab Sample ID: MB 680-823950/9
Matrix: Solid
Analysis Batch: 823950

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11.0		50.0	11.0	ug/Kg			02/22/24 13:00	1
Benzene	<2.40		5.00	2.40	ug/Kg			02/22/24 13:00	1
Bromobenzene	<1.70		5.00	1.70	ug/Kg			02/22/24 13:00	1
Chlorobromomethane	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
Dichlorobromomethane	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
Bromoform	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
Bromomethane	<2.40		5.00	2.40	ug/Kg			02/22/24 13:00	1
2-Butanone (MEK)	<9.20		25.0	9.20	ug/Kg			02/22/24 13:00	1
n-Butylbenzene	<1.90		5.00	1.90	ug/Kg			02/22/24 13:00	1
sec-Butylbenzene	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
tert-Butylbenzene	<2.50		5.00	2.50	ug/Kg			02/22/24 13:00	1
Carbon disulfide	<2.10		5.00	2.10	ug/Kg			02/22/24 13:00	1
Carbon tetrachloride	<2.10		5.00	2.10	ug/Kg			02/22/24 13:00	1
Chlorobenzene	<1.40		5.00	1.40	ug/Kg			02/22/24 13:00	1
Chloroethane	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
Chloroform	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
Chloromethane	<2.40		5.00	2.40	ug/Kg			02/22/24 13:00	1
2-Chlorotoluene	<2.30		5.00	2.30	ug/Kg			02/22/24 13:00	1
4-Chlorotoluene	<2.10		5.00	2.10	ug/Kg			02/22/24 13:00	1
Chlorodibromomethane	<2.10		5.00	2.10	ug/Kg			02/22/24 13:00	1
1,2-Dibromo-3-Chloropropane	<1.60		10.0	1.60	ug/Kg			02/22/24 13:00	1
Ethylene Dibromide	<1.70		5.00	1.70	ug/Kg			02/22/24 13:00	1
Dibromomethane	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
1,2-Dichlorobenzene	<1.70		5.00	1.70	ug/Kg			02/22/24 13:00	1
1,3-Dichlorobenzene	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
1,4-Dichlorobenzene	<1.80		5.00	1.80	ug/Kg			02/22/24 13:00	1
trans-1,4-Dichloro-2-butene	<2.40		10.0	2.40	ug/Kg			02/22/24 13:00	1
Dichlorodifluoromethane	<3.20		5.00	3.20	ug/Kg			02/22/24 13:00	1
1,1-Dichloroethane	<2.90		5.00	2.90	ug/Kg			02/22/24 13:00	1
1,2-Dichloroethane	<2.30		5.00	2.30	ug/Kg			02/22/24 13:00	1
cis-1,2-Dichloroethene	<2.90		5.00	2.90	ug/Kg			02/22/24 13:00	1
trans-1,2-Dichloroethene	<2.30		5.00	2.30	ug/Kg			02/22/24 13:00	1
1,1-Dichloroethene	<3.60		5.00	3.60	ug/Kg			02/22/24 13:00	1
1,2-Dichloropropane	<2.60		5.00	2.60	ug/Kg			02/22/24 13:00	1
1,3-Dichloropropane	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
2,2-Dichloropropane	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
1,1-Dichloropropene	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
cis-1,3-Dichloropropene	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
trans-1,3-Dichloropropene	<2.60		5.00	2.60	ug/Kg			02/22/24 13:00	1
Ethylbenzene	<2.10		5.00	2.10	ug/Kg			02/22/24 13:00	1
Hexachlorobutadiene	<4.10		5.00	4.10	ug/Kg			02/22/24 13:00	1
2-Hexanone	<19.0		25.0	19.0	ug/Kg			02/22/24 13:00	1
Iodomethane	<1.70		5.00	1.70	ug/Kg			02/22/24 13:00	1
Isopropylbenzene	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
4-Isopropyltoluene	<2.60		5.00	2.60	ug/Kg			02/22/24 13:00	1
Methylene Chloride	<8.00		10.0	8.00	ug/Kg			02/22/24 13:00	1
4-Methyl-2-pentanone (MIBK)	<18.0		25.0	18.0	ug/Kg			02/22/24 13:00	1
Methyl tert-butyl ether	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1

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

Lab Sample ID: MB 680-823950/9
Matrix: Solid
Analysis Batch: 823950

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<3.10		5.00	3.10	ug/Kg			02/22/24 13:00	1
N-Propylbenzene	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
Styrene	<1.90		5.00	1.90	ug/Kg			02/22/24 13:00	1
1,1,1,2-Tetrachloroethane	<1.30		5.00	1.30	ug/Kg			02/22/24 13:00	1
1,1,2,2-Tetrachloroethane	<2.10		5.00	2.10	ug/Kg			02/22/24 13:00	1
Tetrachloroethene	<2.60		5.00	2.60	ug/Kg			02/22/24 13:00	1
Toluene	<2.60		5.00	2.60	ug/Kg			02/22/24 13:00	1
1,2,3-Trichlorobenzene	<2.00		5.00	2.00	ug/Kg			02/22/24 13:00	1
1,2,4-Trichlorobenzene	<2.50		5.00	2.50	ug/Kg			02/22/24 13:00	1
1,1,1-Trichloroethane	<2.60		5.00	2.60	ug/Kg			02/22/24 13:00	1
1,1,2-Trichloroethane	<1.50		5.00	1.50	ug/Kg			02/22/24 13:00	1
Trichloroethene	<1.80		5.00	1.80	ug/Kg			02/22/24 13:00	1
Trichlorofluoromethane	<3.10		5.00	3.10	ug/Kg			02/22/24 13:00	1
1,2,3-Trichloropropane	<1.80		5.00	1.80	ug/Kg			02/22/24 13:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.90		5.00	2.90	ug/Kg			02/22/24 13:00	1
1,2,4-Trimethylbenzene	<2.50		5.00	2.50	ug/Kg			02/22/24 13:00	1
1,3,5-Trimethylbenzene	<2.40		5.00	2.40	ug/Kg			02/22/24 13:00	1
Vinyl acetate	<5.50		10.0	5.50	ug/Kg			02/22/24 13:00	1
Vinyl chloride	<2.80		5.00	2.80	ug/Kg			02/22/24 13:00	1
o-Xylene	<2.30		5.00	2.30	ug/Kg			02/22/24 13:00	1
m-Xylene & p-Xylene	<2.20		5.00	2.20	ug/Kg			02/22/24 13:00	1
Xylenes, Total	<3.60		10.0	3.60	ug/Kg			02/22/24 13:00	1
Isopropyl ether	<1.50		10.0	1.50	ug/Kg			02/22/24 13:00	1
Hexane	<1.70		5.00	1.70	ug/Kg			02/22/24 13:00	1
n-Heptane	<4.30		5.00	4.30	ug/Kg			02/22/24 13:00	1
Ethyl acetate	<10.0		10.0	10.0	ug/Kg			02/22/24 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*		*02/22/24 13:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*		*02/22/24 13:00*	*1*
Dibromofluoromethane (Surr)	*109*		*65 - 130*		*02/22/24 13:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*		*02/22/24 13:00*	*1*

Lab Sample ID: LCS 680-823950/5
Matrix: Solid
Analysis Batch: 823950

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	236.6		ug/Kg		95	10 - 150
Benzene	50.0	46.66		ug/Kg		93	70 - 130
Bromobenzene	50.0	49.07		ug/Kg		98	70 - 130
Chlorobromomethane	50.0	46.72		ug/Kg		93	66 - 130
Dichlorobromomethane	50.0	46.56		ug/Kg		93	70 - 130
Bromoform	50.0	44.33		ug/Kg		89	68 - 130
Bromomethane	50.0	65.41	*+	ug/Kg		131	70 - 130
2-Butanone (MEK)	250	216.4		ug/Kg		87	40 - 150
n-Butylbenzene	50.0	50.62		ug/Kg		101	70 - 130
sec-Butylbenzene	50.0	51.21		ug/Kg		102	69 - 142

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

Lab Sample ID: LCS 680-823950/5
Matrix: Solid
Analysis Batch: 823950

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	50.0	49.98		ug/Kg		100	67 - 145
Carbon disulfide	50.0	45.53		ug/Kg		91	70 - 130
Carbon tetrachloride	50.0	45.32		ug/Kg		91	70 - 130
Chlorobenzene	50.0	48.22		ug/Kg		96	70 - 130
Chloroethane	50.0	48.79		ug/Kg		98	70 - 130
Chloroform	50.0	47.95		ug/Kg		96	70 - 130
Chloromethane	50.0	43.61		ug/Kg		87	70 - 130
2-Chlorotoluene	50.0	49.15		ug/Kg		98	70 - 130
4-Chlorotoluene	50.0	49.25		ug/Kg		98	70 - 130
Chlorodibromomethane	50.0	46.78		ug/Kg		94	64 - 133
1,2-Dibromo-3-Chloropropane	50.0	43.79		ug/Kg		88	42 - 145
Ethylene Dibromide	50.0	47.60		ug/Kg		95	48 - 150
Dibromomethane	50.0	47.57		ug/Kg		95	59 - 142
1,2-Dichlorobenzene	50.0	46.25		ug/Kg		92	70 - 130
1,3-Dichlorobenzene	50.0	48.91		ug/Kg		98	70 - 130
1,4-Dichlorobenzene	50.0	48.27		ug/Kg		97	70 - 130
trans-1,4-Dichloro-2-butene	50.0	44.26		ug/Kg		89	54 - 150
Dichlorodifluoromethane	50.0	54.37		ug/Kg		109	43 - 131
1,1-Dichloroethane	50.0	46.03		ug/Kg		92	70 - 130
1,2-Dichloroethane	50.0	45.82		ug/Kg		92	68 - 139
cis-1,2-Dichloroethene	50.0	45.93		ug/Kg		92	70 - 130
trans-1,2-Dichloroethene	50.0	46.10		ug/Kg		92	67 - 130
1,1-Dichloroethene	50.0	44.49		ug/Kg		89	69 - 130
1,2-Dichloropropane	50.0	46.54		ug/Kg		93	70 - 130
1,3-Dichloropropane	50.0	46.11		ug/Kg		92	54 - 150
2,2-Dichloropropane	50.0	45.78		ug/Kg		92	70 - 130
1,1-Dichloropropene	50.0	46.57		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	50.0	46.49		ug/Kg		93	70 - 130
trans-1,3-Dichloropropene	50.0	46.25		ug/Kg		93	54 - 150
Ethylbenzene	50.0	49.45		ug/Kg		99	70 - 130
Hexachlorobutadiene	50.0	50.21		ug/Kg		100	70 - 130
2-Hexanone	250	227.1		ug/Kg		91	30 - 150
Iodomethane	50.0	44.50		ug/Kg		89	65 - 138
Isopropylbenzene	50.0	49.86		ug/Kg		100	70 - 130
4-Isopropyltoluene	50.0	51.06		ug/Kg		102	70 - 130
Methylene Chloride	50.0	46.77		ug/Kg		94	54 - 149
4-Methyl-2-pentanone (MIBK)	250	230.3		ug/Kg		92	34 - 150
Methyl tert-butyl ether	50.0	45.14		ug/Kg		90	70 - 130
Naphthalene	50.0	42.59		ug/Kg		85	46 - 150
N-Propylbenzene	50.0	50.97		ug/Kg		102	70 - 130
Styrene	50.0	49.09		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	45.55		ug/Kg		91	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.15		ug/Kg		100	64 - 130
Tetrachloroethene	50.0	49.66		ug/Kg		99	70 - 130
Toluene	50.0	48.86		ug/Kg		98	70 - 130
1,2,3-Trichlorobenzene	50.0	45.56		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	50.0	46.45		ug/Kg		93	70 - 130
1,1,1-Trichloroethane	50.0	46.12		ug/Kg		92	70 - 130
1,1,2-Trichloroethane	50.0	47.90		ug/Kg		96	56 - 146

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

Lab Sample ID: LCS 680-823950/5
Matrix: Solid
Analysis Batch: 823950

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	50.0	44.29		ug/Kg		89	70 - 130
Trichlorofluoromethane	50.0	55.24		ug/Kg		110	70 - 130
1,2,3-Trichloropropane	50.0	45.67		ug/Kg		91	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.18		ug/Kg		92	70 - 130
1,2,4-Trimethylbenzene	50.0	50.57		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	50.78		ug/Kg		102	70 - 130
Vinyl acetate	100	143.4		ug/Kg		143	53 - 150
Vinyl chloride	50.0	55.04		ug/Kg		110	70 - 130
o-Xylene	50.0	49.39		ug/Kg		99	70 - 130
m-Xylene & p-Xylene	50.0	48.91		ug/Kg		98	70 - 130
Xylenes, Total	100	98.30		ug/Kg		98	70 - 130
Hexane	50.0	47.09		ug/Kg		94	70 - 130
n-Heptane	50.0	47.76		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*88*		*65 - 130*

Lab Sample ID: LCSD 680-823950/6
Matrix: Solid
Analysis Batch: 823950

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
Acetone	250	234.1		ug/Kg		94	10 - 150	1	50
Benzene	50.0	46.96		ug/Kg		94	70 - 130	1	30
Bromobenzene	50.0	50.38		ug/Kg		101	70 - 130	3	30
Chlorobromomethane	50.0	47.15		ug/Kg		94	66 - 130	1	30
Dichlorobromomethane	50.0	45.79		ug/Kg		92	70 - 130	2	30
Bromoform	50.0	44.42		ug/Kg		89	68 - 130	0	30
Bromomethane	50.0	50.70		ug/Kg		101	70 - 130	25	30
2-Butanone (MEK)	250	226.1		ug/Kg		90	40 - 150	4	30
n-Butylbenzene	50.0	51.34		ug/Kg		103	70 - 130	1	30
sec-Butylbenzene	50.0	51.91		ug/Kg		104	69 - 142	1	30
tert-Butylbenzene	50.0	51.20		ug/Kg		102	67 - 145	2	30
Carbon disulfide	50.0	45.80		ug/Kg		92	70 - 130	1	30
Carbon tetrachloride	50.0	46.94		ug/Kg		94	70 - 130	4	30
Chlorobenzene	50.0	48.71		ug/Kg		97	70 - 130	1	30
Chloroethane	50.0	48.50		ug/Kg		97	70 - 130	1	30
Chloroform	50.0	46.94		ug/Kg		94	70 - 130	2	30
Chloromethane	50.0	43.14		ug/Kg		86	70 - 130	1	30
2-Chlorotoluene	50.0	50.09		ug/Kg		100	70 - 130	2	30
4-Chlorotoluene	50.0	50.50		ug/Kg		101	70 - 130	3	30
Chlorodibromomethane	50.0	46.62		ug/Kg		93	64 - 133	0	30
1,2-Dibromo-3-Chloropropane	50.0	44.86		ug/Kg		90	42 - 145	2	30
Ethylene Dibromide	50.0	47.24		ug/Kg		94	48 - 150	1	30
Dibromomethane	50.0	47.45		ug/Kg		95	59 - 142	0	30

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

Lab Sample ID: LCSD 680-823950/6
Matrix: Solid
Analysis Batch: 823950

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
1,2-Dichlorobenzene	50.0	46.72		ug/Kg		93	70 - 130	1	30
1,3-Dichlorobenzene	50.0	48.71		ug/Kg		97	70 - 130	0	30
1,4-Dichlorobenzene	50.0	49.00		ug/Kg		98	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	45.49		ug/Kg		91	54 - 150	3	30
Dichlorodifluoromethane	50.0	54.23		ug/Kg		108	43 - 131	0	30
1,1-Dichloroethane	50.0	46.10		ug/Kg		92	70 - 130	0	30
1,2-Dichloroethane	50.0	46.41		ug/Kg		93	68 - 139	1	30
cis-1,2-Dichloroethene	50.0	45.83		ug/Kg		92	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	45.60		ug/Kg		91	67 - 130	1	30
1,1-Dichloroethene	50.0	46.23		ug/Kg		92	69 - 130	4	50
1,2-Dichloropropane	50.0	46.81		ug/Kg		94	70 - 130	1	30
1,3-Dichloropropane	50.0	46.26		ug/Kg		93	54 - 150	0	30
2,2-Dichloropropane	50.0	44.23		ug/Kg		88	70 - 130	3	30
1,1-Dichloropropene	50.0	46.96		ug/Kg		94	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	46.27		ug/Kg		93	70 - 130	0	30
trans-1,3-Dichloropropene	50.0	46.54		ug/Kg		93	54 - 150	1	30
Ethylbenzene	50.0	49.55		ug/Kg		99	70 - 130	0	30
Hexachlorobutadiene	50.0	51.11		ug/Kg		102	70 - 130	2	30
2-Hexanone	250	227.8		ug/Kg		91	30 - 150	0	30
Iodomethane	50.0	44.50		ug/Kg		89	65 - 138	0	30
Isopropylbenzene	50.0	51.36		ug/Kg		103	70 - 130	3	30
4-Isopropyltoluene	50.0	51.89		ug/Kg		104	70 - 130	2	30
Methylene Chloride	50.0	47.08		ug/Kg		94	54 - 149	1	30
4-Methyl-2-pentanone (MIBK)	250	231.1		ug/Kg		92	34 - 150	0	30
Methyl tert-butyl ether	50.0	44.56		ug/Kg		89	70 - 130	1	30
Naphthalene	50.0	42.63		ug/Kg		85	46 - 150	0	30
N-Propylbenzene	50.0	51.78		ug/Kg		104	70 - 130	2	30
Styrene	50.0	49.89		ug/Kg		100	70 - 130	2	30
1,1,1,2-Tetrachloroethane	50.0	46.41		ug/Kg		93	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	50.14		ug/Kg		100	64 - 130	0	30
Tetrachloroethene	50.0	50.82		ug/Kg		102	70 - 130	2	30
Toluene	50.0	48.11		ug/Kg		96	70 - 130	2	30
1,2,3-Trichlorobenzene	50.0	45.95		ug/Kg		92	70 - 130	1	30
1,2,4-Trichlorobenzene	50.0	47.59		ug/Kg		95	70 - 130	2	30
1,1,1-Trichloroethane	50.0	45.68		ug/Kg		91	70 - 130	1	30
1,1,2-Trichloroethane	50.0	46.74		ug/Kg		93	56 - 146	2	30
Trichloroethene	50.0	44.37		ug/Kg		89	70 - 130	0	30
Trichlorofluoromethane	50.0	55.54		ug/Kg		111	70 - 130	1	30
1,2,3-Trichloropropane	50.0	45.22		ug/Kg		90	64 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.39		ug/Kg		91	70 - 130	2	40
1,2,4-Trimethylbenzene	50.0	50.67		ug/Kg		101	70 - 130	0	30
1,3,5-Trimethylbenzene	50.0	51.04		ug/Kg		102	70 - 130	1	30
Vinyl acetate	100	136.0		ug/Kg		136	53 - 150	5	30
Vinyl chloride	50.0	54.98		ug/Kg		110	70 - 130	0	30
o-Xylene	50.0	49.09		ug/Kg		98	70 - 130	1	30
m-Xylene & p-Xylene	50.0	49.62		ug/Kg		99	70 - 130	1	30
Xylenes, Total	100	98.71		ug/Kg		99	70 - 130	0	30
Hexane	50.0	46.35		ug/Kg		93	70 - 130	2	30

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

Lab Sample ID: LCSD 680-823950/6
Matrix: Solid
Analysis Batch: 823950

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
n-Heptane			50.0	48.78		ug/Kg		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 130*
Dibromofluoromethane (Surr)	*95*		*65 - 130*
4-Bromofluorobenzene (Surr)	*89*		*65 - 130*

Lab Sample ID: MB 680-824233/7
Matrix: Solid
Analysis Batch: 824233

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<11.0		50.0	11.0	ug/Kg			02/23/24 14:10	1
Benzene	<2.40		5.00	2.40	ug/Kg			02/23/24 14:10	1
Bromobenzene	<1.70		5.00	1.70	ug/Kg			02/23/24 14:10	1
Chlorobromomethane	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
Dichlorobromomethane	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
Bromoform	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
Bromomethane	<2.40		5.00	2.40	ug/Kg			02/23/24 14:10	1
2-Butanone (MEK)	<9.20		25.0	9.20	ug/Kg			02/23/24 14:10	1
n-Butylbenzene	<1.90		5.00	1.90	ug/Kg			02/23/24 14:10	1
sec-Butylbenzene	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
tert-Butylbenzene	<2.50		5.00	2.50	ug/Kg			02/23/24 14:10	1
Carbon disulfide	<2.10		5.00	2.10	ug/Kg			02/23/24 14:10	1
Carbon tetrachloride	<2.10		5.00	2.10	ug/Kg			02/23/24 14:10	1
Chlorobenzene	<1.40		5.00	1.40	ug/Kg			02/23/24 14:10	1
Chloroethane	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
Chloroform	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
Chloromethane	<2.40		5.00	2.40	ug/Kg			02/23/24 14:10	1
2-Chlorotoluene	<2.30		5.00	2.30	ug/Kg			02/23/24 14:10	1
4-Chlorotoluene	<2.10		5.00	2.10	ug/Kg			02/23/24 14:10	1
Chlorodibromomethane	<2.10		5.00	2.10	ug/Kg			02/23/24 14:10	1
1,2-Dibromo-3-Chloropropane	<1.60		10.0	1.60	ug/Kg			02/23/24 14:10	1
Ethylene Dibromide	<1.70		5.00	1.70	ug/Kg			02/23/24 14:10	1
Dibromomethane	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
1,2-Dichlorobenzene	<1.70		5.00	1.70	ug/Kg			02/23/24 14:10	1
1,3-Dichlorobenzene	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
1,4-Dichlorobenzene	<1.80		5.00	1.80	ug/Kg			02/23/24 14:10	1
trans-1,4-Dichloro-2-butene	<2.40		10.0	2.40	ug/Kg			02/23/24 14:10	1
Dichlorodifluoromethane	<3.20		5.00	3.20	ug/Kg			02/23/24 14:10	1
1,1-Dichloroethane	<2.90		5.00	2.90	ug/Kg			02/23/24 14:10	1
1,2-Dichloroethane	<2.30		5.00	2.30	ug/Kg			02/23/24 14:10	1
cis-1,2-Dichloroethene	<2.90		5.00	2.90	ug/Kg			02/23/24 14:10	1
trans-1,2-Dichloroethene	<2.30		5.00	2.30	ug/Kg			02/23/24 14:10	1
1,1-Dichloroethene	<3.60		5.00	3.60	ug/Kg			02/23/24 14:10	1
1,2-Dichloropropane	<2.60		5.00	2.60	ug/Kg			02/23/24 14:10	1
1,3-Dichloropropane	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1

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

Lab Sample ID: MB 680-824233/7
Matrix: Solid
Analysis Batch: 824233

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
1,1-Dichloropropene	<2.00		5.00	2.00	ug/Kg			02/23/24 14:10	1
cis-1,3-Dichloropropene	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
trans-1,3-Dichloropropene	<2.60		5.00	2.60	ug/Kg			02/23/24 14:10	1
Ethylbenzene	<2.10		5.00	2.10	ug/Kg			02/23/24 14:10	1
Hexachlorobutadiene	<4.10		5.00	4.10	ug/Kg			02/23/24 14:10	1
2-Hexanone	<19.0		25.0	19.0	ug/Kg			02/23/24 14:10	1
Iodomethane	<1.70		5.00	1.70	ug/Kg			02/23/24 14:10	1
Isopropylbenzene	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
4-Isopropyltoluene	<2.60		5.00	2.60	ug/Kg			02/23/24 14:10	1
Methylene Chloride	<8.00		10.0	8.00	ug/Kg			02/23/24 14:10	1
4-Methyl-2-pentanone (MIBK)	<18.0		25.0	18.0	ug/Kg			02/23/24 14:10	1
Methyl tert-butyl ether	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
Naphthalene	4.034	J	5.00	3.10	ug/Kg			02/23/24 14:10	1
N-Propylbenzene	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
Styrene	<1.90		5.00	1.90	ug/Kg			02/23/24 14:10	1
1,1,1,2-Tetrachloroethane	<1.30		5.00	1.30	ug/Kg			02/23/24 14:10	1
1,1,2,2-Tetrachloroethane	<2.10		5.00	2.10	ug/Kg			02/23/24 14:10	1
Tetrachloroethene	<2.60		5.00	2.60	ug/Kg			02/23/24 14:10	1
Toluene	<2.60		5.00	2.60	ug/Kg			02/23/24 14:10	1
1,2,3-Trichlorobenzene	2.244	J	5.00	2.00	ug/Kg			02/23/24 14:10	1
1,2,4-Trichlorobenzene	<2.50		5.00	2.50	ug/Kg			02/23/24 14:10	1
1,1,1-Trichloroethane	<2.60		5.00	2.60	ug/Kg			02/23/24 14:10	1
1,1,2-Trichloroethane	<1.50		5.00	1.50	ug/Kg			02/23/24 14:10	1
Trichloroethene	<1.80		5.00	1.80	ug/Kg			02/23/24 14:10	1
Trichlorofluoromethane	<3.10		5.00	3.10	ug/Kg			02/23/24 14:10	1
1,2,3-Trichloropropane	<1.80		5.00	1.80	ug/Kg			02/23/24 14:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.90		5.00	2.90	ug/Kg			02/23/24 14:10	1
1,2,4-Trimethylbenzene	<2.50		5.00	2.50	ug/Kg			02/23/24 14:10	1
1,3,5-Trimethylbenzene	<2.40		5.00	2.40	ug/Kg			02/23/24 14:10	1
Vinyl acetate	<5.50		10.0	5.50	ug/Kg			02/23/24 14:10	1
Vinyl chloride	<2.80		5.00	2.80	ug/Kg			02/23/24 14:10	1
o-Xylene	<2.30		5.00	2.30	ug/Kg			02/23/24 14:10	1
m-Xylene & p-Xylene	<2.20		5.00	2.20	ug/Kg			02/23/24 14:10	1
Xylenes, Total	<3.60		10.0	3.60	ug/Kg			02/23/24 14:10	1
Isopropyl ether	<1.50		10.0	1.50	ug/Kg			02/23/24 14:10	1
Hexane	<1.70		5.00	1.70	ug/Kg			02/23/24 14:10	1
n-Heptane	<4.30		5.00	4.30	ug/Kg			02/23/24 14:10	1
Ethyl acetate	<10.0		10.0	10.0	ug/Kg			02/23/24 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*130*		*65 - 130*		*02/23/24 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 130*		*02/23/24 14:10*	*1*
Dibromofluoromethane (Surr)	*117*		*65 - 130*		*02/23/24 14:10*	*1*
4-Bromofluorobenzene (Surr)	*109*		*65 - 130*		*02/23/24 14:10*	*1*

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

Lab Sample ID: LCS 680-824233/9
Matrix: Solid
Analysis Batch: 824233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	221.3		ug/Kg		89	10 - 150
Benzene	50.0	50.53		ug/Kg		101	70 - 130
Bromobenzene	50.0	49.72		ug/Kg		99	70 - 130
Chlorobromomethane	50.0	63.54		ug/Kg		127	66 - 130
Dichlorobromomethane	50.0	50.04		ug/Kg		100	70 - 130
Bromoform	50.0	43.49		ug/Kg		87	68 - 130
2-Butanone (MEK)	250	257.5		ug/Kg		103	40 - 150
n-Butylbenzene	50.0	57.05		ug/Kg		114	70 - 130
sec-Butylbenzene	50.0	55.85		ug/Kg		112	69 - 142
tert-Butylbenzene	50.0	55.58		ug/Kg		111	67 - 145
Carbon disulfide	50.0	54.89		ug/Kg		110	70 - 130
Carbon tetrachloride	50.0	51.66		ug/Kg		103	70 - 130
Chlorobenzene	50.0	49.63		ug/Kg		99	70 - 130
Chloroform	50.0	49.62		ug/Kg		99	70 - 130
Chloromethane	50.0	49.29		ug/Kg		99	70 - 130
2-Chlorotoluene	50.0	52.34		ug/Kg		105	70 - 130
4-Chlorotoluene	50.0	52.08		ug/Kg		104	70 - 130
Chlorodibromomethane	50.0	48.73		ug/Kg		97	64 - 133
1,2-Dibromo-3-Chloropropane	50.0	42.29		ug/Kg		85	42 - 145
Ethylene Dibromide	50.0	48.52		ug/Kg		97	48 - 150
Dibromomethane	50.0	50.14		ug/Kg		100	59 - 142
1,2-Dichlorobenzene	50.0	48.87		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	50.0	50.36		ug/Kg		101	70 - 130
1,4-Dichlorobenzene	50.0	50.79		ug/Kg		102	70 - 130
trans-1,4-Dichloro-2-butene	50.0	47.16		ug/Kg		94	54 - 150
Dichlorodifluoromethane	50.0	52.78		ug/Kg		106	43 - 131
1,1-Dichloroethane	50.0	51.44		ug/Kg		103	70 - 130
1,2-Dichloroethane	50.0	50.93		ug/Kg		102	68 - 139
cis-1,2-Dichloroethene	50.0	49.73		ug/Kg		99	70 - 130
trans-1,2-Dichloroethene	50.0	47.68		ug/Kg		95	67 - 130
1,1-Dichloroethene	50.0	51.23		ug/Kg		102	69 - 130
1,2-Dichloropropane	50.0	48.52		ug/Kg		97	70 - 130
1,3-Dichloropropane	50.0	50.08		ug/Kg		100	54 - 150
2,2-Dichloropropane	50.0	52.13		ug/Kg		104	70 - 130
1,1-Dichloropropene	50.0	48.03		ug/Kg		96	70 - 130
cis-1,3-Dichloropropene	50.0	48.60		ug/Kg		97	70 - 130
trans-1,3-Dichloropropene	50.0	50.00		ug/Kg		100	54 - 150
Ethylbenzene	50.0	51.89		ug/Kg		104	70 - 130
Hexachlorobutadiene	50.0	54.55		ug/Kg		109	70 - 130
2-Hexanone	250	276.0		ug/Kg		110	30 - 150
Iodomethane	50.0	47.72		ug/Kg		95	65 - 138
Isopropylbenzene	50.0	53.09		ug/Kg		106	70 - 130
4-Isopropyltoluene	50.0	54.47		ug/Kg		109	70 - 130
Methylene Chloride	50.0	51.66		ug/Kg		103	54 - 149
4-Methyl-2-pentanone (MIBK)	250	274.3		ug/Kg		110	34 - 150
Methyl tert-butyl ether	50.0	47.13		ug/Kg		94	70 - 130
Naphthalene	50.0	41.35		ug/Kg		83	46 - 150
N-Propylbenzene	50.0	54.98		ug/Kg		110	70 - 130

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

Lab Sample ID: LCS 680-824233/9
Matrix: Solid
Analysis Batch: 824233

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Styrene			50.0	51.01		ug/Kg		102	70 - 130		
1,1,1,2-Tetrachloroethane			50.0	43.97		ug/Kg		88	70 - 130		
1,1,2,2-Tetrachloroethane			50.0	48.79		ug/Kg		98	64 - 130		
Tetrachloroethene			50.0	54.93		ug/Kg		110	70 - 130		
Toluene			50.0	54.26		ug/Kg		109	70 - 130		
1,2,3-Trichlorobenzene			50.0	47.11		ug/Kg		94	70 - 130		
1,2,4-Trichlorobenzene			50.0	47.18		ug/Kg		94	70 - 130		
1,1,1-Trichloroethane			50.0	51.56		ug/Kg		103	70 - 130		
1,1,2-Trichloroethane			50.0	50.02		ug/Kg		100	56 - 146		
Trichloroethene			50.0	45.65		ug/Kg		91	70 - 130		
Trichlorofluoromethane			50.0	57.52		ug/Kg		115	70 - 130		
1,2,3-Trichloropropane			50.0	48.73		ug/Kg		97	64 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.53		ug/Kg		97	70 - 130		
1,2,4-Trimethylbenzene			50.0	54.17		ug/Kg		108	70 - 130		
1,3,5-Trimethylbenzene			50.0	53.96		ug/Kg		108	70 - 130		
Vinyl acetate			100	129.2		ug/Kg		129	53 - 150		
Vinyl chloride			50.0	51.59		ug/Kg		103	70 - 130		
o-Xylene			50.0	50.55		ug/Kg		101	70 - 130		
m-Xylene & p-Xylene			50.0	51.95		ug/Kg		104	70 - 130		
Xylenes, Total			100	102.5		ug/Kg		103	70 - 130		
Hexane			50.0	50.31		ug/Kg		101	70 - 130		
n-Heptane			50.0	56.14		ug/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 130*
Dibromofluoromethane (Surr)	*97*		*65 - 130*
4-Bromofluorobenzene (Surr)	*98*		*65 - 130*

Lab Sample ID: LCSD 680-824233/10
Matrix: Solid
Analysis Batch: 824233

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
Acetone			250	238.1		ug/Kg		95	10 - 150	7	50
Benzene			50.0	51.54		ug/Kg		103	70 - 130	2	30
Bromobenzene			50.0	52.04		ug/Kg		104	70 - 130	5	30
Chlorobromomethane			50.0	54.45		ug/Kg		109	66 - 130	15	30
Dichlorobromomethane			50.0	51.76		ug/Kg		104	70 - 130	3	30
Bromoform			50.0	44.97		ug/Kg		90	68 - 130	3	30
2-Butanone (MEK)			250	271.5		ug/Kg		109	40 - 150	5	30
n-Butylbenzene			50.0	55.42		ug/Kg		111	70 - 130	3	30
sec-Butylbenzene			50.0	55.47		ug/Kg		111	69 - 142	1	30
tert-Butylbenzene			50.0	54.21		ug/Kg		108	67 - 145	3	30
Carbon disulfide			50.0	54.79		ug/Kg		110	70 - 130	0	30
Carbon tetrachloride			50.0	52.96		ug/Kg		106	70 - 130	2	30
Chlorobenzene			50.0	51.23		ug/Kg		102	70 - 130	3	30
Chloroethane			50.0	59.29		ug/Kg		119	70 - 130	13	30

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

Lab Sample ID: LCSD 680-824233/10
Matrix: Solid
Analysis Batch: 824233

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	51.91		ug/Kg		104	70 - 130	5	30
Chloromethane	50.0	51.50		ug/Kg		103	70 - 130	4	30
2-Chlorotoluene	50.0	52.97		ug/Kg		106	70 - 130	1	30
4-Chlorotoluene	50.0	53.73		ug/Kg		107	70 - 130	3	30
Chlorodibromomethane	50.0	49.74		ug/Kg		99	64 - 133	2	30
1,2-Dibromo-3-Chloropropane	50.0	42.56		ug/Kg		85	42 - 145	1	30
Ethylene Dibromide	50.0	50.34		ug/Kg		101	48 - 150	4	30
Dibromomethane	50.0	51.91		ug/Kg		104	59 - 142	3	30
1,2-Dichlorobenzene	50.0	51.56		ug/Kg		103	70 - 130	5	30
1,3-Dichlorobenzene	50.0	52.47		ug/Kg		105	70 - 130	4	30
1,4-Dichlorobenzene	50.0	52.61		ug/Kg		105	70 - 130	4	30
trans-1,4-Dichloro-2-butene	50.0	48.08		ug/Kg		96	54 - 150	2	30
Dichlorodifluoromethane	50.0	53.13		ug/Kg		106	43 - 131	1	30
1,1-Dichloroethane	50.0	54.16		ug/Kg		108	70 - 130	5	30
1,2-Dichloroethane	50.0	52.31		ug/Kg		105	68 - 139	3	30
cis-1,2-Dichloroethene	50.0	52.12		ug/Kg		104	70 - 130	5	30
trans-1,2-Dichloroethene	50.0	48.53		ug/Kg		97	67 - 130	2	30
1,1-Dichloroethene	50.0	53.87		ug/Kg		108	69 - 130	5	50
1,2-Dichloropropane	50.0	50.02		ug/Kg		100	70 - 130	3	30
1,3-Dichloropropane	50.0	50.66		ug/Kg		101	54 - 150	1	30
2,2-Dichloropropane	50.0	52.61		ug/Kg		105	70 - 130	1	30
1,1-Dichloropropene	50.0	49.38		ug/Kg		99	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	50.28		ug/Kg		101	70 - 130	3	30
trans-1,3-Dichloropropene	50.0	51.00		ug/Kg		102	54 - 150	2	30
Ethylbenzene	50.0	52.87		ug/Kg		106	70 - 130	2	30
Hexachlorobutadiene	50.0	53.76		ug/Kg		108	70 - 130	1	30
2-Hexanone	250	278.9		ug/Kg		112	30 - 150	1	30
Iodomethane	50.0	49.82		ug/Kg		100	65 - 138	4	30
Isopropylbenzene	50.0	52.15		ug/Kg		104	70 - 130	2	30
4-Isopropyltoluene	50.0	54.28		ug/Kg		109	70 - 130	0	30
Methylene Chloride	50.0	54.72		ug/Kg		109	54 - 149	6	30
4-Methyl-2-pentanone (MIBK)	250	280.3		ug/Kg		112	34 - 150	2	30
Methyl tert-butyl ether	50.0	48.81		ug/Kg		98	70 - 130	4	30
Naphthalene	50.0	43.80		ug/Kg		88	46 - 150	6	30
N-Propylbenzene	50.0	53.66		ug/Kg		107	70 - 130	2	30
Styrene	50.0	52.42		ug/Kg		105	70 - 130	3	30
1,1,1,2-Tetrachloroethane	50.0	46.66		ug/Kg		93	70 - 130	6	30
1,1,2,2-Tetrachloroethane	50.0	49.62		ug/Kg		99	64 - 130	2	30
Tetrachloroethene	50.0	52.99		ug/Kg		106	70 - 130	4	30
Toluene	50.0	54.60		ug/Kg		109	70 - 130	1	30
1,2,3-Trichlorobenzene	50.0	48.51		ug/Kg		97	70 - 130	3	30
1,2,4-Trichlorobenzene	50.0	50.51		ug/Kg		101	70 - 130	7	30
1,1,1-Trichloroethane	50.0	52.43		ug/Kg		105	70 - 130	2	30
1,1,2-Trichloroethane	50.0	50.17		ug/Kg		100	56 - 146	0	30
Trichloroethene	50.0	46.87		ug/Kg		94	70 - 130	3	30
Trichlorofluoromethane	50.0	52.48		ug/Kg		105	70 - 130	9	30
1,2,3-Trichloropropane	50.0	47.76		ug/Kg		96	64 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.16		ug/Kg		100	70 - 130	3	40

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

Lab Sample ID: LCSD 680-824233/10
Matrix: Solid
Analysis Batch: 824233

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
1,2,4-Trimethylbenzene			50.0	54.68		ug/Kg		109	70 - 130	1	30
1,3,5-Trimethylbenzene			50.0	54.14		ug/Kg		108	70 - 130	0	30
Vinyl acetate			100	128.2		ug/Kg		128	53 - 150	1	30
Vinyl chloride			50.0	51.27		ug/Kg		103	70 - 130	1	30
o-Xylene			50.0	52.70		ug/Kg		105	70 - 130	4	30
m-Xylene & p-Xylene			50.0	52.27		ug/Kg		105	70 - 130	1	30
Xylenes, Total			100	105.0		ug/Kg		105	70 - 130	2	30
Hexane			50.0	48.90		ug/Kg		98	70 - 130	3	30
n-Heptane			50.0	53.11		ug/Kg		106	70 - 130	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*
Dibromofluoromethane (Surr)	*104*		*65 - 130*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*

GC/MS VOA

Prep Batch: 823840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246956-1	WAP-Sump1-6ft	Total/NA	Solid	5035A	
680-246956-2	WAP-Sump1-8ft	Total/NA	Solid	5035A	
680-246956-3	WAP-Sump2-6ft	Total/NA	Solid	5035A	
680-246956-3	WAP-Sump2-6ft	Total/NA	Solid	5035A	
680-246956-4	WAP-Sump2-8ft	Total/NA	Solid	5035A	
680-246956-4	WAP-Sump2-8ft	Total/NA	Solid	5035A	
680-246956-5	WAP-Sump3-6ft	Total/NA	Solid	5035A	
680-246956-6	WAP-Sump3-8ft	Total/NA	Solid	5035A	

Analysis Batch: 823950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246956-1	WAP-Sump1-6ft	Total/NA	Solid	8260D	823840
680-246956-2	WAP-Sump1-8ft	Total/NA	Solid	8260D	823840
680-246956-3	WAP-Sump2-6ft	Total/NA	Solid	8260D	823840
680-246956-4	WAP-Sump2-8ft	Total/NA	Solid	8260D	823840
680-246956-5	WAP-Sump3-6ft	Total/NA	Solid	8260D	823840
680-246956-6	WAP-Sump3-8ft	Total/NA	Solid	8260D	823840
MB 680-823950/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-823950/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-823950/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 824233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246956-3	WAP-Sump2-6ft	Total/NA	Solid	8260D	823840
680-246956-4	WAP-Sump2-8ft	Total/NA	Solid	8260D	823840
MB 680-824233/7	Method Blank	Total/NA	Solid	8260D	
LCS 680-824233/9	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-824233/10	Lab Control Sample Dup	Total/NA	Solid	8260D	

General Chemistry

Analysis Batch: 823806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246956-1	WAP-Sump1-6ft	Total/NA	Solid	Moisture	
680-246956-2	WAP-Sump1-8ft	Total/NA	Solid	Moisture	
680-246956-3	WAP-Sump2-6ft	Total/NA	Solid	Moisture	
680-246956-4	WAP-Sump2-8ft	Total/NA	Solid	Moisture	
680-246956-5	WAP-Sump3-6ft	Total/NA	Solid	Moisture	
680-246956-6	WAP-Sump3-8ft	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump1-6ft
Lab Sample ID: 680-246956-1
Date Collected: 02/20/24 16:20
Matrix: Solid
Date Received: 02/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			823806	02/21/24 14:01	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-Sump1-6ft
Lab Sample ID: 680-246956-1
Date Collected: 02/20/24 16:20
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.23 g	5 mL	823840	02/21/24 15:08	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	823950	02/22/24 18:47	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: WAP-Sump1-8ft
Lab Sample ID: 680-246956-2
Date Collected: 02/20/24 16:25
Matrix: Solid
Date Received: 02/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			823806	02/21/24 14:01	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-Sump1-8ft
Lab Sample ID: 680-246956-2
Date Collected: 02/20/24 16:25
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.833 g	5 mL	823840	02/21/24 15:08	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	823950	02/22/24 19:09	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: WAP-Sump2-6ft
Lab Sample ID: 680-246956-3
Date Collected: 02/20/24 16:30
Matrix: Solid
Date Received: 02/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			823806	02/21/24 14:01	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-Sump2-6ft
Lab Sample ID: 680-246956-3
Date Collected: 02/20/24 16:30
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 71.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.585 g	5 mL	823840	02/21/24 15:08	FES	EET SAV
Total/NA	Analysis	8260D		200	5 g	5 g	824233	02/23/24 18:05	MLL	EET SAV
	Instrument ID: CMSAD									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump2-6ft

Lab Sample ID: 680-246956-3
Date Collected: 02/20/24 16:30
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 71.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.365 g	5 mL	823840	02/21/24 15:08	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	823950	02/22/24 19:30	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: WAP-Sump2-8ft

Lab Sample ID: 680-246956-4
Date Collected: 02/20/24 16:35
Matrix: Solid
Date Received: 02/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			823806	02/21/24 14:01	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-Sump2-8ft

Lab Sample ID: 680-246956-4
Date Collected: 02/20/24 16:35
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.541 g	5 mL	823840	02/21/24 15:08	FES	EET SAV
Total/NA	Analysis	8260D		40	5 g	5 g	824233	02/23/24 17:43	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			6.449 g	5 mL	823840	02/21/24 15:08	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	823950	02/22/24 19:52	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: WAP-Sump3-6ft

Lab Sample ID: 680-246956-5
Date Collected: 02/20/24 16:40
Matrix: Solid
Date Received: 02/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			823806	02/21/24 14:01	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-Sump3-6ft

Lab Sample ID: 680-246956-5
Date Collected: 02/20/24 16:40
Matrix: Solid
Date Received: 02/21/24 10:05
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.508 g	5 mL	823840	02/21/24 15:13	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	823950	02/22/24 20:13	Y1S	EET SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Client Sample ID: WAP-Sump3-8ft

Lab Sample ID: 680-246956-6

Date Collected: 02/20/24 16:45

Matrix: Solid

Date Received: 02/21/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			823806	02/21/24 14:01	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-Sump3-8ft

Lab Sample ID: 680-246956-6

Date Collected: 02/20/24 16:45

Matrix: Solid

Date Received: 02/21/24 10:05

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.929 g	5 mL	823840	02/21/24 15:13	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	823950	02/22/24 20:35	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: 680-246956-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-246956-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.1
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 1 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): 2 day			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
WAP-Sump1 - 6ft	2/20/24	16:20	G	S					X						
WAP - Sump1 - 8ft		16:25							X						
WAP - Sump2 - 6ft		16:30							X						
WAP - Sump2 - 8ft		16:35							X						
WAP - Sump 3 - 6ft		16:40							X						
WAP - Sump 3 - 8ft		16:45							X						

680-246956 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

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

	Date/Time:	Company		Date/Time:	Company
Relinquished by:	2/20/24 19:00		Received by:	2/21/24 1005	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 2.8/2.8

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-246956-1

Login Number: 246956

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 2/28/2024 4:56:21 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247069-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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2/28/2024 4:56:21 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

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.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247069-1	NH-01a	Solid	02/22/24 17:30	02/23/24 09:31
680-247069-2	NH-01b	Solid	02/22/24 17:35	02/23/24 09:31
680-247069-3	NH-02a	Solid	02/22/24 17:40	02/23/24 09:31
680-247069-4	NH-02b	Solid	02/22/24 17:45	02/23/24 09:31
680-247069-5	NH-03a	Solid	02/22/24 17:50	02/23/24 09:31
680-247069-6	NH-03b	Solid	02/22/24 17:55	02/23/24 09:31
680-247069-7	NH-04a	Solid	02/22/24 18:00	02/23/24 09:31
680-247069-8	NH-04b	Solid	02/22/24 18:05	02/23/24 09:31
680-247069-9	NH-05a	Solid	02/22/24 18:10	02/23/24 09:31
680-247069-10	NH-05b	Solid	02/22/24 18:15	02/23/24 09:31
680-247069-12	NH-06a	Solid	02/22/24 18:20	02/23/24 09:31
680-247069-13	NH-06b	Solid	02/22/24 18:25	02/23/24 09:31
680-247069-14	NH-01	Solid	02/22/24 17:30	02/23/24 09:31
680-247069-15	NH-02	Solid	02/22/24 17:40	02/23/24 09:31
680-247069-16	NH-03	Solid	02/22/24 17:50	02/23/24 09:31
680-247069-17	NH-04	Solid	02/22/24 18:00	02/23/24 09:31
680-247069-18	NH-05	Solid	02/22/24 18:10	02/23/24 09:31
680-247069-19	NH-06	Solid	02/22/24 18:20	02/23/24 09:31

Job ID: 680-247069-1 Eurofins Savannah

Job Narrative
680-247069-1

Receipt
The samples were received on 2/23/2024 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Receipt Exceptions
The containers for the following samples were received cracked: NH-02b (680-247069-4) and NH-02 (680-247069-15). The laboratory was able to put these samples into new containers.

GC/MS VOA
Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-824932 recovered outside control limits for the following analyte: Vinyl chloride. This analytes were 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: NH-01a

Lab Sample ID: 680-247069-1

Date Collected: 02/22/24 17:30

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 13:03	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:03	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 13:03	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 13:03	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 13:03	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 13:03	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 13:03	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:03	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 13:03	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 13:03	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 13:03	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*02/28/24 13:03*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*02/28/24 13:03*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 13:03*	*20*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*02/28/24 13:03*	*20*

Client Sample ID: NH-01b

Lab Sample ID: 680-247069-2

Date Collected: 02/22/24 17:35

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 13:25	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:25	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 13:25	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 13:25	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 13:25	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 13:25	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 13:25	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:25	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 13:25	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 13:25	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 13:25	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/28/24 13:25*	*20*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*02/28/24 13:25*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/28/24 13:25*	*20*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*02/28/24 13:25*	*20*

Client Sample ID: NH-02a

Lab Sample ID: 680-247069-3

Date Collected: 02/22/24 17:40

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 13:46	20

Client Sample ID: NH-02a

Lab Sample ID: 680-247069-3

Date Collected: 02/22/24 17:40
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:46	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 13:46	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 13:46	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 13:46	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 13:46	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 13:46	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:46	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 13:46	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 13:46	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 13:46	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*02/28/24 13:46*	*20*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*02/28/24 13:46*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 13:46*	*20*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*02/28/24 13:46*	*20*

Client Sample ID: NH-02b

Lab Sample ID: 680-247069-4

Date Collected: 02/22/24 17:45
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 14:07	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:07	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 14:07	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 14:07	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 14:07	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 14:07	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 14:07	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:07	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 14:07	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 14:07	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 14:07	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/28/24 14:07*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*02/28/24 14:07*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 14:07*	*20*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*02/28/24 14:07*	*20*

Client Sample ID: NH-03a

Lab Sample ID: 680-247069-5

Date Collected: 02/22/24 17:50
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 14:29	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:29	20

Client Sample ID: NH-03a

Lab Sample ID: 680-247069-5

Date Collected: 02/22/24 17:50
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 14:29	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 14:29	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 14:29	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 14:29	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 14:29	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:29	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 14:29	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 14:29	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 14:29	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*02/28/24 14:29*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*02/28/24 14:29*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 14:29*	*20*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*02/28/24 14:29*	*20*

Client Sample ID: NH-03b

Lab Sample ID: 680-247069-6

Date Collected: 02/22/24 17:55
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 14:50	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:50	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 14:50	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 14:50	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 14:50	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 14:50	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 14:50	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:50	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 14:50	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 14:50	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 14:50	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/28/24 14:50*	*20*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*02/28/24 14:50*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 14:50*	*20*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*02/28/24 14:50*	*20*

Client Sample ID: NH-04a

Lab Sample ID: 680-247069-7

Date Collected: 02/22/24 18:00
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 15:12	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:12	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 15:12	20

Client Sample ID: NH-04a

Lab Sample ID: 680-247069-7

Date Collected: 02/22/24 18:00

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 15:12	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 15:12	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 15:12	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 15:12	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:12	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 15:12	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 15:12	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 15:12	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*02/28/24 15:12*	*20*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*02/28/24 15:12*	*20*
Toluene-d8 (Surr)	*91*		*70 - 130*		*02/28/24 15:12*	*20*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*02/28/24 15:12*	*20*

Client Sample ID: NH-04b

Lab Sample ID: 680-247069-8

Date Collected: 02/22/24 18:05

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 15:33	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:33	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 15:33	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 15:33	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 15:33	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 15:33	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 15:33	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:33	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 15:33	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 15:33	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 15:33	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*02/28/24 15:33*	*20*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*02/28/24 15:33*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 15:33*	*20*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*02/28/24 15:33*	*20*

Client Sample ID: NH-05a

Lab Sample ID: 680-247069-9

Date Collected: 02/22/24 18:10

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 15:54	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:54	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 15:54	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 15:54	20

Client Sample ID: NH-05a

Lab Sample ID: 680-247069-9

Date Collected: 02/22/24 18:10

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 15:54	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 15:54	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 15:54	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:54	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 15:54	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 15:54	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 15:54	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 15:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*02/28/24 15:54*	*20*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*02/28/24 15:54*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 15:54*	*20*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*02/28/24 15:54*	*20*

Client Sample ID: NH-05b

Lab Sample ID: 680-247069-10

Date Collected: 02/22/24 18:15

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 16:16	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 16:16	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 16:16	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 16:16	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 16:16	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 16:16	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 16:16	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 16:16	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 16:16	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 16:16	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 16:16	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 16:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*02/28/24 16:16*	*20*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*02/28/24 16:16*	*20*
Toluene-d8 (Surr)	*91*		*70 - 130*		*02/28/24 16:16*	*20*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*02/28/24 16:16*	*20*

Client Sample ID: NH-06a

Lab Sample ID: 680-247069-12

Date Collected: 02/22/24 18:20

Matrix: Solid

Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 13:52	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:52	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 13:52	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 13:52	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 13:52	20

Client Sample ID: NH-06a

Date Collected: 02/22/24 18:20
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 13:52	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 13:52	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:52	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 13:52	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 13:52	20
Trichloroethene	**0.0155**	**J**	0.0200	0.00960	mg/L			02/28/24 13:52	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 13:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/28/24 13:52*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 13:52*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 13:52*	*20*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*02/28/24 13:52*	*20*

Client Sample ID: NH-06b

Date Collected: 02/22/24 18:25
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 14:14	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:14	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 14:14	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 14:14	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 14:14	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 14:14	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 14:14	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:14	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 14:14	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 14:14	20
Trichloroethene	**0.129**		0.0200	0.00960	mg/L			02/28/24 14:14	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 14:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/28/24 14:14*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 14:14*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 14:14*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*02/28/24 14:14*	*20*

Client Sample ID: NH-01

Date Collected: 02/22/24 17:30
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 22:14	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 22:14	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 22:14	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 22:14	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 22:14	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 22:14	1

Client Sample ID: NH-01

Date Collected: 02/22/24 17:30
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 22:14	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 22:14	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 22:14	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 22:14	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 22:14	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*30 - 130*	*02/27/24 11:05*	*02/27/24 22:14*	*1*
2-Fluorobiphenyl (Surr)	*60*		*25 - 130*	*02/27/24 11:05*	*02/27/24 22:14*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 130*	*02/27/24 11:05*	*02/27/24 22:14*	*1*
Terphenyl-d14 (Surr)	*79*		*35 - 131*	*02/27/24 11:05*	*02/27/24 22:14*	*1*
Phenol-d5 (Surr)	*23*		*10 - 130*	*02/27/24 11:05*	*02/27/24 22:14*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*02/27/24 11:05*	*02/27/24 22:14*	*1*

Client Sample ID: NH-02

Date Collected: 02/22/24 17:40
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 21:22	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 21:22	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 21:22	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 21:22	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 21:22	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 21:22	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 21:22	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 21:22	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 21:22	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 21:22	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 21:22	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*30 - 130*	*02/27/24 11:05*	*02/27/24 21:22*	*1*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*02/27/24 11:05*	*02/27/24 21:22*	*1*
2-Fluorophenol (Surr)	*29*		*10 - 130*	*02/27/24 11:05*	*02/27/24 21:22*	*1*
Terphenyl-d14 (Surr)	*81*		*35 - 131*	*02/27/24 11:05*	*02/27/24 21:22*	*1*
Phenol-d5 (Surr)	*21*		*10 - 130*	*02/27/24 11:05*	*02/27/24 21:22*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*02/27/24 11:05*	*02/27/24 21:22*	*1*

Client Sample ID: NH-03

Date Collected: 02/22/24 17:50
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 22:39	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 22:39	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 22:39	1

Client Sample ID: NH-03

Date Collected: 02/22/24 17:50
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 22:39	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 22:39	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 22:39	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 22:39	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 22:39	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 22:39	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 22:39	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 22:39	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*	*02/27/24 11:05*	*02/27/24 22:39*	*1*
2-Fluorobiphenyl (Surr)	*71*		*25 - 130*	*02/27/24 11:05*	*02/27/24 22:39*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 130*	*02/27/24 11:05*	*02/27/24 22:39*	*1*
Terphenyl-d14 (Surr)	*80*		*35 - 131*	*02/27/24 11:05*	*02/27/24 22:39*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*02/27/24 11:05*	*02/27/24 22:39*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*02/27/24 11:05*	*02/27/24 22:39*	*1*

Client Sample ID: NH-04

Date Collected: 02/22/24 18:00
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 23:05	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 23:05	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 23:05	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 23:05	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 23:05	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 23:05	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 23:05	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 23:05	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 23:05	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 23:05	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 23:05	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*30 - 130*	*02/27/24 11:05*	*02/27/24 23:05*	*1*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*02/27/24 11:05*	*02/27/24 23:05*	*1*
2-Fluorophenol (Surr)	*34*		*10 - 130*	*02/27/24 11:05*	*02/27/24 23:05*	*1*
Terphenyl-d14 (Surr)	*81*		*35 - 131*	*02/27/24 11:05*	*02/27/24 23:05*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*02/27/24 11:05*	*02/27/24 23:05*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*02/27/24 11:05*	*02/27/24 23:05*	*1*

Client: Terracon Consultants, Inc.
Job ID: 680-247069-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: NH-05
Lab Sample ID: 680-247069-18
Date Collected: 02/22/24 18:10
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 23:31	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 23:31	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 23:31	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 23:31	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 23:31	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 23:31	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 23:31	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 23:31	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 23:31	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 23:31	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 23:31	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*30 - 130*	*02/27/24 11:05*	*02/27/24 23:31*	*1*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*02/27/24 11:05*	*02/27/24 23:31*	*1*
2-Fluorophenol (Surr)	*31*		*10 - 130*	*02/27/24 11:05*	*02/27/24 23:31*	*1*
Terphenyl-d14 (Surr)	*86*		*35 - 131*	*02/27/24 11:05*	*02/27/24 23:31*	*1*
Phenol-d5 (Surr)	*22*		*10 - 130*	*02/27/24 11:05*	*02/27/24 23:31*	*1*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*02/27/24 11:05*	*02/27/24 23:31*	*1*

Client Sample ID: NH-06
Lab Sample ID: 680-247069-19
Date Collected: 02/22/24 18:20
Matrix: Solid
Date Received: 02/23/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 23:57	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 23:57	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 23:57	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 23:57	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 23:57	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 23:57	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 23:57	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 23:57	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 23:57	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 23:57	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 23:57	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*30 - 130*	*02/27/24 11:05*	*02/27/24 23:57*	*1*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*02/27/24 11:05*	*02/27/24 23:57*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 130*	*02/27/24 11:05*	*02/27/24 23:57*	*1*
Terphenyl-d14 (Surr)	*81*		*35 - 131*	*02/27/24 11:05*	*02/27/24 23:57*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*02/27/24 11:05*	*02/27/24 23:57*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*02/27/24 11:05*	*02/27/24 23:57*	*1*

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

Lab Sample ID: MB 680-824932/10
Matrix: Solid
Analysis Batch: 824932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			02/28/24 13:05	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			02/28/24 13:05	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			02/28/24 13:05	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			02/28/24 13:05	1
Benzene	<0.000430		0.00100	0.000430	mg/L			02/28/24 13:05	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			02/28/24 13:05	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			02/28/24 13:05	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			02/28/24 13:05	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			02/28/24 13:05	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			02/28/24 13:05	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			02/28/24 13:05	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			02/28/24 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/28/24 13:05*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*02/28/24 13:05*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/28/24 13:05*	*1*

Lab Sample ID: LCS 680-824932/6
Matrix: Solid
Analysis Batch: 824932

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.05468		mg/L		109	70 - 130
1,2-Dichloroethane	0.0500	0.04729		mg/L		95	70 - 130
1,4-Dichlorobenzene	0.0500	0.05406		mg/L		108	70 - 130
2-Butanone (MEK)	0.250	0.1918		mg/L		77	69 - 114
Benzene	0.0500	0.05165		mg/L		103	70 - 130
Carbon tetrachloride	0.0500	0.03961		mg/L		79	70 - 130
Chlorobenzene	0.0500	0.05381		mg/L		108	70 - 130
Chloroform	0.0500	0.04812		mg/L		96	70 - 130
Hexachlorobutadiene	0.0500	0.05158		mg/L		103	70 - 130
Tetrachloroethene	0.0500	0.04965		mg/L		99	70 - 130
Trichloroethene	0.0500	0.05118		mg/L		102	70 - 130
Vinyl chloride	0.0500	0.06881	*+	mg/L		138	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*

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

Lab Sample ID: LCSD 680-824932/7
Matrix: Solid
Analysis Batch: 824932

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-Dichloroethene			0.0500	0.05474		mg/L		109	70 - 130	0	20
1,2-Dichloroethane			0.0500	0.04866		mg/L		97	70 - 130	3	50
1,4-Dichlorobenzene			0.0500	0.05403		mg/L		108	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2054		mg/L		82	69 - 114	7	30
Benzene			0.0500	0.05222		mg/L		104	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04008		mg/L		80	70 - 130	1	30
Chlorobenzene			0.0500	0.05411		mg/L		108	70 - 130	1	30
Chloroform			0.0500	0.04875		mg/L		98	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.05084		mg/L		102	70 - 130	1	20
Tetrachloroethene			0.0500	0.04943		mg/L		99	70 - 130	0	30
Trichloroethene			0.0500	0.05223		mg/L		104	70 - 130	2	30
Vinyl chloride			0.0500	0.07023	*+	mg/L		140	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*

Lab Sample ID: MB 680-824943/8
Matrix: Solid
Analysis Batch: 824943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			02/28/24 12:19	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			02/28/24 12:19	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			02/28/24 12:19	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			02/28/24 12:19	1
Benzene	<0.000430		0.00100	0.000430	mg/L			02/28/24 12:19	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			02/28/24 12:19	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			02/28/24 12:19	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			02/28/24 12:19	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			02/28/24 12:19	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			02/28/24 12:19	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			02/28/24 12:19	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			02/28/24 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/28/24 12:19*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*02/28/24 12:19*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/28/24 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*60 - 124*		*02/28/24 12:19*	*1*

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

Lab Sample ID: LCS 680-824943/4
Matrix: Solid
Analysis Batch: 824943

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.05150		mg/L		103	70 - 130		
1,2-Dichloroethane			0.0500	0.05150		mg/L		103	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05259		mg/L		105	70 - 130		
2-Butanone (MEK)			0.250	0.2669		mg/L		107	69 - 114		
Benzene			0.0500	0.05209		mg/L		104	70 - 130		
Carbon tetrachloride			0.0500	0.04899		mg/L		98	70 - 130		
Chlorobenzene			0.0500	0.05056		mg/L		101	70 - 130		
Chloroform			0.0500	0.04865		mg/L		97	70 - 130		
Hexachlorobutadiene			0.0500	0.05157		mg/L		103	70 - 130		
Tetrachloroethene			0.0500	0.05056		mg/L		101	70 - 130		
Trichloroethene			0.0500	0.04821		mg/L		96	70 - 130		
Vinyl chloride			0.0500	0.04653		mg/L		93	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*

Lab Sample ID: LCSD 680-824943/5
Matrix: Solid
Analysis Batch: 824943

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-Dichloroethene			0.0500	0.04905		mg/L		98	70 - 130	5	20
1,2-Dichloroethane			0.0500	0.05224		mg/L		104	70 - 130	1	50
1,4-Dichlorobenzene			0.0500	0.05191		mg/L		104	70 - 130	1	30
2-Butanone (MEK)			0.250	0.2773		mg/L		111	69 - 114	4	30
Benzene			0.0500	0.05144		mg/L		103	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04874		mg/L		97	70 - 130	1	30
Chlorobenzene			0.0500	0.05200		mg/L		104	70 - 130	3	30
Chloroform			0.0500	0.04826		mg/L		97	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.05031		mg/L		101	70 - 130	2	20
Tetrachloroethene			0.0500	0.05047		mg/L		101	70 - 130	0	30
Trichloroethene			0.0500	0.04855		mg/L		97	70 - 130	1	30
Vinyl chloride			0.0500	0.04557		mg/L		91	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*

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

Lab Sample ID: LB 680-824625/1-A
Matrix: Solid
Analysis Batch: 824932

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 13:30	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:30	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 13:30	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 13:30	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 13:30	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 13:30	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 13:30	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:30	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 13:30	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 13:30	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 13:30	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:30	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*02/28/24 13:30*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 13:30*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 13:30*	*20*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*02/28/24 13:30*	*20*

Lab Sample ID: LB 680-824308/1-A
Matrix: Solid
Analysis Batch: 824943

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 12:42	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 12:42	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 12:42	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 12:42	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 12:42	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 12:42	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 12:42	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 12:42	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 12:42	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 12:42	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 12:42	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 12:42	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*02/28/24 12:42*	*20*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*02/28/24 12:42*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/28/24 12:42*	*20*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*02/28/24 12:42*	*20*

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

Lab Sample ID: MB 680-824761/1-A
Matrix: Solid
Analysis Batch: 824789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		02/27/24 11:05	02/27/24 17:06	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		02/27/24 11:05	02/27/24 17:06	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		02/27/24 11:05	02/27/24 17:06	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		02/27/24 11:05	02/27/24 17:06	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		02/27/24 11:05	02/27/24 17:06	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		02/27/24 11:05	02/27/24 17:06	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		02/27/24 11:05	02/27/24 17:06	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		02/27/24 11:05	02/27/24 17:06	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		02/27/24 11:05	02/27/24 17:06	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		02/27/24 11:05	02/27/24 17:06	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		02/27/24 11:05	02/27/24 17:06	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		02/27/24 11:05	02/27/24 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*30 - 130*	*02/27/24 11:05*	*02/27/24 17:06*	*1*
2-Fluorobiphenyl (Surr)	*53*		*25 - 130*	*02/27/24 11:05*	*02/27/24 17:06*	*1*
2-Fluorophenol (Surr)	*26*		*10 - 130*	*02/27/24 11:05*	*02/27/24 17:06*	*1*
Terphenyl-d14 (Surr)	*80*		*35 - 131*	*02/27/24 11:05*	*02/27/24 17:06*	*1*
Phenol-d5 (Surr)	*18*		*10 - 130*	*02/27/24 11:05*	*02/27/24 17:06*	*1*
Nitrobenzene-d5 (Surr)	*47*		*30 - 130*	*02/27/24 11:05*	*02/27/24 17:06*	*1*

Lab Sample ID: LCS 680-824761/2-A
Matrix: Solid
Analysis Batch: 824789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1051		mg/L		53	13 - 130
Pyridine	0.400	0.07231		mg/L		18	10 - 130
Hexachlorobenzene	0.200	0.1497		mg/L		75	30 - 130
2,4-Dinitrotoluene	0.200	0.1827		mg/L		91	37 - 130
Hexachloroethane	0.200	0.1037		mg/L		52	12 - 130
Hexachlorobutadiene	0.200	0.1213		mg/L		61	12 - 130
Pentachlorophenol	0.400	0.3273		mg/L		82	24 - 130
2,4,6-Trichlorophenol	0.200	0.1565		mg/L		78	28 - 130
2,4,5-Trichlorophenol	0.200	0.1599		mg/L		80	26 - 130
Nitrobenzene	0.200	0.1327		mg/L		66	32 - 130
2-Methylphenol	0.200	0.1072		mg/L		54	21 - 130
3 & 4 Methylphenol	0.200	0.1009		mg/L		50	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*
2-Fluorobiphenyl (Surr)	*61*		*25 - 130*
2-Fluorophenol (Surr)	*35*		*10 - 130*
Terphenyl-d14 (Surr)	*75*		*35 - 131*
Phenol-d5 (Surr)	*25*		*10 - 130*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*

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

Lab Sample ID: LB1 680-824307/1-B
Matrix: Solid
Analysis Batch: 824789

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 824761

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 17:32	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/27/24 11:05	02/27/24 17:32	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/27/24 11:05	02/27/24 17:32	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/27/24 11:05	02/27/24 17:32	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 17:32	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/27/24 11:05	02/27/24 17:32	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/27/24 11:05	02/27/24 17:32	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/27/24 11:05	02/27/24 17:32	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/27/24 11:05	02/27/24 17:32	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/27/24 11:05	02/27/24 17:32	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/27/24 11:05	02/27/24 17:32	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/27/24 11:05	02/27/24 17:32	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*30 - 130*	*02/27/24 11:05*	*02/27/24 17:32*	*1*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*02/27/24 11:05*	*02/27/24 17:32*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 130*	*02/27/24 11:05*	*02/27/24 17:32*	*1*
Terphenyl-d14 (Surr)	*79*		*35 - 131*	*02/27/24 11:05*	*02/27/24 17:32*	*1*
Phenol-d5 (Surr)	*26*		*10 - 130*	*02/27/24 11:05*	*02/27/24 17:32*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*02/27/24 11:05*	*02/27/24 17:32*	*1*

Lab Sample ID: 680-247069-15 MS
Matrix: Solid
Analysis Batch: 824789

Client Sample ID: NH-02
Prep Type: TCLP
Prep Batch: 824761

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.5241		mg/L		52	13 - 130
Pyridine	<0.0370		2.00	0.3154		mg/L		16	10 - 130
Hexachlorobenzene	<0.00800		1.00	0.8050		mg/L		81	30 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.9349		mg/L		93	37 - 130
Hexachloroethane	<0.0180		1.00	0.5187		mg/L		52	12 - 130
Hexachlorobutadiene	<0.0200		1.00	0.6041		mg/L		60	12 - 130
Pentachlorophenol	<0.0500		2.00	1.744		mg/L		87	24 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.7904		mg/L		79	28 - 130
2,4,5-Trichlorophenol	<0.0160		1.00	0.7768		mg/L		78	26 - 130
Nitrobenzene	<0.0180		1.00	0.6688		mg/L		67	32 - 130
2-Methylphenol	<0.00900		1.00	0.4942		mg/L		49	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.4662		mg/L		47	19 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*80*		*30 - 130*
2-Fluorobiphenyl (Surr)	*61*		*25 - 130*
2-Fluorophenol (Surr)	*31*		*10 - 130*
Terphenyl-d14 (Surr)	*79*		*35 - 131*
Phenol-d5 (Surr)	*20*		*10 - 130*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*

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

Lab Sample ID: 680-247069-15 MSD
Matrix: Solid
Analysis Batch: 824789

Client Sample ID: NH-02
Prep Type: TCLP
Prep Batch: 824761

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.6486		mg/L		65	13 - 130	21	50
Pyridine	<0.0370		2.00	0.2591		mg/L		13	10 - 130	20	50
Hexachlorobenzene	<0.00800		1.00	0.8957		mg/L		90	30 - 130	11	50
2,4-Dinitrotoluene	<0.0120		1.00	1.065		mg/L		106	37 - 130	13	50
Hexachloroethane	<0.0180		1.00	0.6485		mg/L		65	12 - 130	22	50
Hexachlorobutadiene	<0.0200		1.00	0.7339		mg/L		73	12 - 130	19	50
Pentachlorophenol	<0.0500		2.00	1.980		mg/L		99	24 - 130	13	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.9079		mg/L		91	28 - 130	14	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.9163		mg/L		92	26 - 130	16	50
Nitrobenzene	<0.0180		1.00	0.7757		mg/L		78	32 - 130	15	50
2-Methylphenol	<0.00900		1.00	0.5867		mg/L		59	21 - 130	17	50
3 & 4 Methylphenol	<0.00700		1.00	0.5630		mg/L		56	19 - 130	19	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*30 - 130*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*
2-Fluorophenol (Surr)	*38*		*10 - 130*
Terphenyl-d14 (Surr)	*87*		*35 - 131*
Phenol-d5 (Surr)	*25*		*10 - 130*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*

GC/MS VOA

Leach Batch: 824308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-1	NH-01a	TCLP	Solid	1311	
680-247069-2	NH-01b	TCLP	Solid	1311	
680-247069-3	NH-02a	TCLP	Solid	1311	
680-247069-4	NH-02b	TCLP	Solid	1311	
680-247069-5	NH-03a	TCLP	Solid	1311	
680-247069-6	NH-03b	TCLP	Solid	1311	
680-247069-7	NH-04a	TCLP	Solid	1311	
680-247069-8	NH-04b	TCLP	Solid	1311	
680-247069-9	NH-05a	TCLP	Solid	1311	
680-247069-10	NH-05b	TCLP	Solid	1311	
LB 680-824308/1-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 824625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-12	NH-06a	TCLP	Solid	1311	
680-247069-13	NH-06b	TCLP	Solid	1311	
LB 680-824625/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 824932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-12	NH-06a	TCLP	Solid	8260D	824625
680-247069-13	NH-06b	TCLP	Solid	8260D	824625
LB 680-824625/1-A	Method Blank	TCLP	Solid	8260D	824625
MB 680-824932/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-824932/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-824932/7	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 824943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-1	NH-01a	TCLP	Solid	8260D	824308
680-247069-2	NH-01b	TCLP	Solid	8260D	824308
680-247069-3	NH-02a	TCLP	Solid	8260D	824308
680-247069-4	NH-02b	TCLP	Solid	8260D	824308
680-247069-5	NH-03a	TCLP	Solid	8260D	824308
680-247069-6	NH-03b	TCLP	Solid	8260D	824308
680-247069-7	NH-04a	TCLP	Solid	8260D	824308
680-247069-8	NH-04b	TCLP	Solid	8260D	824308
680-247069-9	NH-05a	TCLP	Solid	8260D	824308
680-247069-10	NH-05b	TCLP	Solid	8260D	824308
LB 680-824308/1-A	Method Blank	TCLP	Solid	8260D	824308
MB 680-824943/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-824943/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-824943/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 824307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-14	NH-01	TCLP	Solid	1311	
680-247069-15	NH-02	TCLP	Solid	1311	
680-247069-16	NH-03	TCLP	Solid	1311	

GC/MS Semi VOA (Continued)

Leach Batch: 824307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-17	NH-04	TCLP	Solid	1311	
680-247069-18	NH-05	TCLP	Solid	1311	
680-247069-19	NH-06	TCLP	Solid	1311	
LB1 680-824307/1-B	Method Blank	TCLP	Solid	1311	
680-247069-15 MS	NH-02	TCLP	Solid	1311	
680-247069-15 MSD	NH-02	TCLP	Solid	1311	

Prep Batch: 824761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-14	NH-01	TCLP	Solid	3510C	824307
680-247069-15	NH-02	TCLP	Solid	3510C	824307
680-247069-16	NH-03	TCLP	Solid	3510C	824307
680-247069-17	NH-04	TCLP	Solid	3510C	824307
680-247069-18	NH-05	TCLP	Solid	3510C	824307
680-247069-19	NH-06	TCLP	Solid	3510C	824307
LB1 680-824307/1-B	Method Blank	TCLP	Solid	3510C	824307
MB 680-824761/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-824761/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-247069-15 MS	NH-02	TCLP	Solid	3510C	824307
680-247069-15 MSD	NH-02	TCLP	Solid	3510C	824307

Analysis Batch: 824789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247069-14	NH-01	TCLP	Solid	8270E	824761
680-247069-15	NH-02	TCLP	Solid	8270E	824761
680-247069-16	NH-03	TCLP	Solid	8270E	824761
680-247069-17	NH-04	TCLP	Solid	8270E	824761
680-247069-18	NH-05	TCLP	Solid	8270E	824761
680-247069-19	NH-06	TCLP	Solid	8270E	824761
LB1 680-824307/1-B	Method Blank	TCLP	Solid	8270E	824761
MB 680-824761/1-A	Method Blank	Total/NA	Solid	8270E	824761
LCS 680-824761/2-A	Lab Control Sample	Total/NA	Solid	8270E	824761
680-247069-15 MS	NH-02	TCLP	Solid	8270E	824761
680-247069-15 MSD	NH-02	TCLP	Solid	8270E	824761

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

Client Sample ID: NH-01a
Date Collected: 02/22/24 17:30
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.06 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 13:03	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-01b
Date Collected: 02/22/24 17:35
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.03 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 13:25	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-02a
Date Collected: 02/22/24 17:40
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 13:46	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-02b
Date Collected: 02/22/24 17:45
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.08 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 14:07	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-03a
Date Collected: 02/22/24 17:50
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 14:29	NTA	EET SAV

Instrument ID: CMSP2

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

Client Sample ID: NH-03b

Date Collected: 02/22/24 17:55
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 14:50	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-04a

Date Collected: 02/22/24 18:00
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 15:12	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-04b

Date Collected: 02/22/24 18:05
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.05 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 15:33	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-05a

Date Collected: 02/22/24 18:10
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 15:54	NTA	EET SAV

Instrument ID: CMSP2

Client Sample ID: NH-05b

Date Collected: 02/22/24 18:15
Date Received: 02/23/24 09:31

Lab Sample ID: 680-247069-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.06 g	500 mL	824308	02/24/24 15:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824943	02/28/24 16:16	NTA	EET SAV

Instrument ID: CMSP2

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

Client Sample ID: NH-06a

Lab Sample ID: 680-247069-12

Date Collected: 02/22/24 18:20

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 13:52	NTA	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: NH-06b

Lab Sample ID: 680-247069-13

Date Collected: 02/22/24 18:25

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 14:14	NTA	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: NH-01

Lab Sample ID: 680-247069-14

Date Collected: 02/22/24 17:30

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.02 g	2000 mL	824307	02/24/24 15:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824761	02/27/24 11:05	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	824789	02/27/24 22:14	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: NH-02

Lab Sample ID: 680-247069-15

Date Collected: 02/22/24 17:40

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.01 g	2000 mL	824307	02/24/24 15:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824761	02/27/24 11:05	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	824789	02/27/24 21:22	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: NH-03

Lab Sample ID: 680-247069-16

Date Collected: 02/22/24 17:50

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.01 g	2000 mL	824307	02/24/24 15:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824761	02/27/24 11:05	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	824789	02/27/24 22:39	T1C	EET SAV
	Instrument ID: CMST									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

Client Sample ID: NH-04

Lab Sample ID: 680-247069-17

Date Collected: 02/22/24 18:00

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.04 g	2000 mL	824307	02/24/24 15:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824761	02/27/24 11:05	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	824789	02/27/24 23:05	T1C	EET SAV

Instrument ID: CMST

Client Sample ID: NH-05

Lab Sample ID: 680-247069-18

Date Collected: 02/22/24 18:10

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	824307	02/24/24 15:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824761	02/27/24 11:05	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	824789	02/27/24 23:31	T1C	EET SAV

Instrument ID: CMST

Client Sample ID: NH-06

Lab Sample ID: 680-247069-19

Date Collected: 02/22/24 18:20

Matrix: Solid

Date Received: 02/23/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.02 g	2000 mL	824307	02/24/24 15:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824761	02/27/24 11:05	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	824789	02/27/24 23:57	T1C	EET SAV

Instrument ID: CMST

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: 680-247069-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247069-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.12
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 12 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:

Address: 2401 Brentwood Road Suite 107	Due Date Requested:
City: Raleigh	TAT Requested (days): 3 day
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No
Phone: 919-436-2965(Tel)	PO #: 70237017
Email: ethan.dinwiddie@terracon.com	WO #: 70237017
Project Name: Tarheel Army Missile Plant	Project #: 68030576
Site:	SSOW#:

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	F	N	N	N	N	N	A	X	
NH-01a	02/22	1730	G	S							X				
NH-01b		1735	G	S							X				
NH-02a		1740	G	S							X				
NH-02b		1745	G	S							X				
NH-03a		1750	G	S							X				
NH-03b		1755	G	S							X				
NH-04a		1800	G	S							X				
NH-04b		1805	G	S							X				
NH-05a		1810	G	S							X				
NH-05b		1815	G	S							X				
TB_20240222		—	G	W			ON HOLD								ON HOLD

680-247069 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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: 0222 / 2000	Company Terracon	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: CMuno	Date/Time: 2/23/24 0931	Company Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.2/4.2

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.11
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 11 of 12
Company: Terracon Consultants, Inc.	PWSID:	Analysis Requested		Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): 3 day			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
NH-06a	02/22	1820	G	S					X		X				
NH-06b		1825	G	S					X		X				
NH-01		1730	C	S						X		X			
NH-02		1740	C	S								X			
NH-03		1750	C	S								X			
NH-04		1800	C	S								X			
NH-05		1810	C	S								X			
NH-06		1520	C	S								X			

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
[signature]	02/22/2000	Terracon			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mrus	Date/Time: 2/23/24 0931	Company Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 4.2

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247069-1

Login Number: 247069

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 2/29/2024 5:54:33 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247121-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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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
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(813)690-3563

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247121-1	H-01a	Solid	02/23/24 12:10	02/24/24 09:52
680-247121-2	H-01b	Solid	02/23/24 12:15	02/24/24 09:52
680-247121-3	H-02a	Solid	02/23/24 12:20	02/24/24 09:52
680-247121-4	H-02b	Solid	02/23/24 12:25	02/24/24 09:52
680-247121-5	NH-07a	Solid	02/23/24 15:10	02/24/24 09:52
680-247121-6	NH-07b	Solid	02/23/24 15:15	02/24/24 09:52
680-247121-7	NH-08a	Solid	02/23/24 15:20	02/24/24 09:52
680-247121-8	NH-08b	Solid	02/23/24 15:25	02/24/24 09:52
680-247121-9	NH-09a	Solid	02/23/24 15:30	02/24/24 09:52
680-247121-10	NH-09b	Solid	02/23/24 15:35	02/24/24 09:52
680-247121-11	NH-07	Solid	02/23/24 15:10	02/24/24 09:52
680-247121-12	NH-08	Solid	02/23/24 15:20	02/24/24 09:52
680-247121-13	NH-09	Solid	02/23/24 15:30	02/24/24 09:52
680-247121-14	NH-10	Solid	02/23/24 17:10	02/24/24 09:52
680-247121-15	H-01	Solid	02/23/24 12:10	02/24/24 09:52
680-247121-16	H-02	Solid	02/23/24 12:20	02/24/24 09:52
680-247121-17	NH-10a	Solid	02/23/24 15:10	02/24/24 09:52
680-247121-18	NH-10b	Solid	02/23/24 15:15	02/24/24 09:52

Job ID: 680-247121-1 Eurofins Savannah

Job Narrative
680-247121-1

Receipt
The samples were received on 2/24/2024 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

GC/MS VOA
Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-824932 recovered outside control limits for the following analyte: Vinyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D - TCLP: The laboratory control sample (LCS) for analytical batch 680-825122 recovered outside control limits for the following analyte: Vinyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D - TCLP: The following sample was diluted to bring the concentration of target analytes within the calibration range: H-02b (680-247121-4). Elevated reporting limits (RLs) are provided.

Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-825127 recovered outside control limits for the following analyte: Vinyl chloride. 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: H-01a

Lab Sample ID: 680-247121-1

Date Collected: 02/23/24 12:10

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 14:36	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:36	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 14:36	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 14:36	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 14:36	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 14:36	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 14:36	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 14:36	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 14:36	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 14:36	20
Trichloroethene	**3.53**		0.0200	0.00960	mg/L			02/28/24 14:36	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 14:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/28/24 14:36*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/28/24 14:36*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 14:36*	*20*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*02/28/24 14:36*	*20*

Client Sample ID: H-01b

Lab Sample ID: 680-247121-2

Date Collected: 02/23/24 12:15

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.360		1.00	0.360	mg/L			02/28/24 18:20	1000
1,2-Dichloroethane	<0.500		1.00	0.500	mg/L			02/28/24 18:20	1000
1,4-Dichlorobenzene	<0.460		1.00	0.460	mg/L			02/28/24 18:20	1000
2-Butanone (MEK)	<3.40		10.0	3.40	mg/L			02/28/24 18:20	1000
Benzene	<0.430		1.00	0.430	mg/L			02/28/24 18:20	1000
Carbon tetrachloride	<0.330		1.00	0.330	mg/L			02/28/24 18:20	1000
Chlorobenzene	<0.260		1.00	0.260	mg/L			02/28/24 18:20	1000
Chloroform	<0.500		1.00	0.500	mg/L			02/28/24 18:20	1000
Hexachlorobutadiene	<2.50		5.00	2.50	mg/L			02/28/24 18:20	1000
Tetrachloroethene	<0.750		1.00	0.750	mg/L			02/28/24 18:20	1000
Trichloroethene	**94.7**		1.00	0.480	mg/L			02/28/24 18:20	1000
Vinyl chloride	<0.500	*+	1.00	0.500	mg/L			02/28/24 18:20	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/28/24 18:20*	*1000*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/28/24 18:20*	*1000*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 18:20*	*1000*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*02/28/24 18:20*	*1000*

Client Sample ID: H-02a

Lab Sample ID: 680-247121-3

Date Collected: 02/23/24 12:20

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 18:42	20

Client Sample ID: H-02a

Lab Sample ID: 680-247121-3

Date Collected: 02/23/24 12:20
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 18:42	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 18:42	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 18:42	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 18:42	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 18:42	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 18:42	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 18:42	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 18:42	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 18:42	20
Trichloroethene	**0.171**		0.0200	0.00960	mg/L			02/28/24 18:42	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 18:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*02/28/24 18:42*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 18:42*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 18:42*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*02/28/24 18:42*	*20*

Client Sample ID: H-02b

Lab Sample ID: 680-247121-4

Date Collected: 02/23/24 12:25
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.0360		0.100	0.0360	mg/L			02/29/24 15:06	100
1,2-Dichloroethane	<0.0500		0.100	0.0500	mg/L			02/29/24 15:06	100
1,4-Dichlorobenzene	<0.0460		0.100	0.0460	mg/L			02/29/24 15:06	100
2-Butanone (MEK)	<0.340		1.00	0.340	mg/L			02/29/24 15:06	100
Benzene	<0.0430		0.100	0.0430	mg/L			02/29/24 15:06	100
Carbon tetrachloride	<0.0330		0.100	0.0330	mg/L			02/29/24 15:06	100
Chlorobenzene	<0.0260		0.100	0.0260	mg/L			02/29/24 15:06	100
Chloroform	<0.0500		0.100	0.0500	mg/L			02/29/24 15:06	100
Hexachlorobutadiene	<0.250		0.500	0.250	mg/L			02/29/24 15:06	100
Tetrachloroethene	<0.0750		0.100	0.0750	mg/L			02/29/24 15:06	100
Trichloroethene	**5.91**		0.100	0.0480	mg/L			02/29/24 15:06	100
Vinyl chloride	<0.0500	*+	0.100	0.0500	mg/L			02/29/24 15:06	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*02/29/24 15:06*	*100*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/29/24 15:06*	*100*
Toluene-d8 (Surr)	*109*		*70 - 130*		*02/29/24 15:06*	*100*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*02/29/24 15:06*	*100*

Client Sample ID: NH-07a

Lab Sample ID: 680-247121-5

Date Collected: 02/23/24 15:10
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/29/24 15:28	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/29/24 15:28	20

Client Sample ID: NH-07a

Lab Sample ID: 680-247121-5

Date Collected: 02/23/24 15:10

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/29/24 15:28	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/29/24 15:28	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/29/24 15:28	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/29/24 15:28	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/29/24 15:28	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/29/24 15:28	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/29/24 15:28	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/29/24 15:28	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/29/24 15:28	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/29/24 15:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*02/29/24 15:28*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/29/24 15:28*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/29/24 15:28*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*02/29/24 15:28*	*20*

Client Sample ID: NH-07b

Lab Sample ID: 680-247121-6

Date Collected: 02/23/24 15:15

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/29/24 15:50	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/29/24 15:50	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/29/24 15:50	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/29/24 15:50	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/29/24 15:50	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/29/24 15:50	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/29/24 15:50	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/29/24 15:50	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/29/24 15:50	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/29/24 15:50	20
Trichloroethene	**0.0172**	**J**	0.0200	0.00960	mg/L			02/29/24 15:50	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/29/24 15:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/29/24 15:50*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/29/24 15:50*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/29/24 15:50*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*02/29/24 15:50*	*20*

Client Sample ID: NH-08a

Lab Sample ID: 680-247121-7

Date Collected: 02/23/24 15:20

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/29/24 15:36	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/29/24 15:36	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/29/24 15:36	20

Client Sample ID: NH-08a

Lab Sample ID: 680-247121-7

Date Collected: 02/23/24 15:20

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/29/24 15:36	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/29/24 15:36	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/29/24 15:36	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/29/24 15:36	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/29/24 15:36	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/29/24 15:36	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/29/24 15:36	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/29/24 15:36	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/29/24 15:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*02/29/24 15:36*	*20*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*02/29/24 15:36*	*20*
Toluene-d8 (Surr)	*109*		*70 - 130*		*02/29/24 15:36*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*02/29/24 15:36*	*20*

Client Sample ID: NH-08b

Lab Sample ID: 680-247121-8

Date Collected: 02/23/24 15:25

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/29/24 14:56	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/29/24 14:56	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/29/24 14:56	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/29/24 14:56	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/29/24 14:56	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/29/24 14:56	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/29/24 14:56	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/29/24 14:56	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/29/24 14:56	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/29/24 14:56	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/29/24 14:56	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/29/24 14:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*02/29/24 14:56*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/29/24 14:56*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/29/24 14:56*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*02/29/24 14:56*	*20*

Client Sample ID: NH-09a

Lab Sample ID: 680-247121-9

Date Collected: 02/23/24 15:30

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 19:47	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 19:47	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 19:47	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 19:47	20

Client Sample ID: NH-09a

Lab Sample ID: 680-247121-9

Date Collected: 02/23/24 15:30

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 19:47	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 19:47	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 19:47	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 19:47	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 19:47	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 19:47	20
Trichloroethene	0.0250	B	0.0200	0.00960	mg/L			02/28/24 19:47	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 19:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/28/24 19:47*	*20*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*02/28/24 19:47*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 19:47*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*02/28/24 19:47*	*20*

Client Sample ID: NH-09b

Lab Sample ID: 680-247121-10

Date Collected: 02/23/24 15:35

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 20:09	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 20:09	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 20:09	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 20:09	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 20:09	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 20:09	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 20:09	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 20:09	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 20:09	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 20:09	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/29/24 15:57	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 20:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*02/28/24 20:09*	*20*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*02/29/24 15:57*	*20*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*02/28/24 20:09*	*20*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*02/29/24 15:57*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 20:09*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*02/29/24 15:57*	*20*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/28/24 20:09*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*02/29/24 15:57*	*20*

Client Sample ID: NH-07

Lab Sample ID: 680-247121-11

Date Collected: 02/23/24 15:10

Matrix: Solid

Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 15:54	1

Client Sample ID: NH-07

Date Collected: 02/23/24 15:10
Date Received: 02/24/24 09:52

Lab Sample ID: 680-247121-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 15:54	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 15:54	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 15:54	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 15:54	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 15:54	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 15:54	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 15:54	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 15:54	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 15:54	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 15:54	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*30 - 130*	*02/28/24 09:39*	*02/28/24 15:54*	*1*
2-Fluorobiphenyl (Surr)	*76*		*25 - 130*	*02/28/24 09:39*	*02/28/24 15:54*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 130*	*02/28/24 09:39*	*02/28/24 15:54*	*1*
Terphenyl-d14 (Surr)	*86*		*35 - 131*	*02/28/24 09:39*	*02/28/24 15:54*	*1*
Phenol-d5 (Surr)	*29*		*10 - 130*	*02/28/24 09:39*	*02/28/24 15:54*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*02/28/24 09:39*	*02/28/24 15:54*	*1*

Client Sample ID: NH-08

Date Collected: 02/23/24 15:20
Date Received: 02/24/24 09:52

Lab Sample ID: 680-247121-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 16:19	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 16:19	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 16:19	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 16:19	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 16:19	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 16:19	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 16:19	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 16:19	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 16:19	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 16:19	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 16:19	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*30 - 130*	*02/28/24 09:39*	*02/28/24 16:19*	*1*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*02/28/24 09:39*	*02/28/24 16:19*	*1*
2-Fluorophenol (Surr)	*32*		*10 - 130*	*02/28/24 09:39*	*02/28/24 16:19*	*1*
Terphenyl-d14 (Surr)	*85*		*35 - 131*	*02/28/24 09:39*	*02/28/24 16:19*	*1*
Phenol-d5 (Surr)	*23*		*10 - 130*	*02/28/24 09:39*	*02/28/24 16:19*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*02/28/24 09:39*	*02/28/24 16:19*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Client Sample ID: NH-09

Lab Sample ID: 680-247121-13

Date Collected: 02/23/24 15:30
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 16:45	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 16:45	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 16:45	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 16:45	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 16:45	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 16:45	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 16:45	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 16:45	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 16:45	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 16:45	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 16:45	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*30 - 130*	*02/28/24 09:39*	*02/28/24 16:45*	*1*
2-Fluorobiphenyl (Surr)	*74*		*25 - 130*	*02/28/24 09:39*	*02/28/24 16:45*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 130*	*02/28/24 09:39*	*02/28/24 16:45*	*1*
Terphenyl-d14 (Surr)	*88*		*35 - 131*	*02/28/24 09:39*	*02/28/24 16:45*	*1*
Phenol-d5 (Surr)	*26*		*10 - 130*	*02/28/24 09:39*	*02/28/24 16:45*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*02/28/24 09:39*	*02/28/24 16:45*	*1*

Client Sample ID: NH-10

Lab Sample ID: 680-247121-14

Date Collected: 02/23/24 17:10
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 17:11	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 17:11	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 17:11	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 17:11	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 17:11	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 17:11	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 17:11	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 17:11	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 17:11	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 17:11	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 17:11	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*30 - 130*	*02/28/24 09:39*	*02/28/24 17:11*	*1*
2-Fluorobiphenyl (Surr)	*76*		*25 - 130*	*02/28/24 09:39*	*02/28/24 17:11*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 130*	*02/28/24 09:39*	*02/28/24 17:11*	*1*
Terphenyl-d14 (Surr)	*86*		*35 - 131*	*02/28/24 09:39*	*02/28/24 17:11*	*1*
Phenol-d5 (Surr)	*27*		*10 - 130*	*02/28/24 09:39*	*02/28/24 17:11*	*1*
Nitrobenzene-d5 (Surr)	*77*		*30 - 130*	*02/28/24 09:39*	*02/28/24 17:11*	*1*

Client: Terracon Consultants, Inc.
Job ID: 680-247121-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: H-01
Lab Sample ID: 680-247121-15
Date Collected: 02/23/24 12:10
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 17:36	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 17:36	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 17:36	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 17:36	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 17:36	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 17:36	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 17:36	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 17:36	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 17:36	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 17:36	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 17:36	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*30 - 130*	*02/28/24 09:39*	*02/28/24 17:36*	*1*
2-Fluorobiphenyl (Surr)	*78*		*25 - 130*	*02/28/24 09:39*	*02/28/24 17:36*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 130*	*02/28/24 09:39*	*02/28/24 17:36*	*1*
Terphenyl-d14 (Surr)	*93*		*35 - 131*	*02/28/24 09:39*	*02/28/24 17:36*	*1*
Phenol-d5 (Surr)	*27*		*10 - 130*	*02/28/24 09:39*	*02/28/24 17:36*	*1*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*02/28/24 09:39*	*02/28/24 17:36*	*1*

Client Sample ID: H-02
Lab Sample ID: 680-247121-16
Date Collected: 02/23/24 12:20
Matrix: Solid
Date Received: 02/24/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 18:01	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 18:01	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 18:01	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 18:01	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 18:01	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 18:01	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 18:01	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 18:01	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 18:01	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 18:01	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 18:01	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*30 - 130*	*02/28/24 09:39*	*02/28/24 18:01*	*1*
2-Fluorobiphenyl (Surr)	*77*		*25 - 130*	*02/28/24 09:39*	*02/28/24 18:01*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*02/28/24 09:39*	*02/28/24 18:01*	*1*
Terphenyl-d14 (Surr)	*90*		*35 - 131*	*02/28/24 09:39*	*02/28/24 18:01*	*1*
Phenol-d5 (Surr)	*26*		*10 - 130*	*02/28/24 09:39*	*02/28/24 18:01*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*02/28/24 09:39*	*02/28/24 18:01*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Client Sample ID: NH-10a

Date Collected: 02/23/24 15:10
Date Received: 02/24/24 09:52

Lab Sample ID: 680-247121-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 20:31	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 20:31	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 20:31	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 20:31	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 20:31	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 20:31	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 20:31	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 20:31	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 20:31	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 20:31	20
Trichloroethene	**0.0113**	**J B**	0.0200	0.00960	mg/L			02/28/24 20:31	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 20:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*02/28/24 20:31*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 20:31*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*02/28/24 20:31*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*02/28/24 20:31*	*20*

Client Sample ID: NH-10b

Date Collected: 02/23/24 15:15
Date Received: 02/24/24 09:52

Lab Sample ID: 680-247121-18

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 20:52	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 20:52	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 20:52	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 20:52	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 20:52	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 20:52	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 20:52	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 20:52	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 20:52	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 20:52	20
Trichloroethene	**0.0115**	**J B**	0.0200	0.00960	mg/L			02/28/24 20:52	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			02/28/24 20:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*02/28/24 20:52*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 20:52*	*20*
Toluene-d8 (Surr)	*91*		*70 - 130*		*02/28/24 20:52*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*02/28/24 20:52*	*20*

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

Lab Sample ID: MB 680-824932/10
Matrix: Solid
Analysis Batch: 824932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			02/28/24 13:05	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			02/28/24 13:05	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			02/28/24 13:05	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			02/28/24 13:05	1
Benzene	<0.000430		0.00100	0.000430	mg/L			02/28/24 13:05	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			02/28/24 13:05	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			02/28/24 13:05	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			02/28/24 13:05	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			02/28/24 13:05	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			02/28/24 13:05	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			02/28/24 13:05	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			02/28/24 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/28/24 13:05*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*02/28/24 13:05*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/28/24 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/28/24 13:05*	*1*

Lab Sample ID: LCS 680-824932/6
Matrix: Solid
Analysis Batch: 824932

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.05468		mg/L		109	70 - 130
1,2-Dichloroethane	0.0500	0.04729		mg/L		95	70 - 130
1,4-Dichlorobenzene	0.0500	0.05406		mg/L		108	70 - 130
2-Butanone (MEK)	0.250	0.1918		mg/L		77	69 - 114
Benzene	0.0500	0.05165		mg/L		103	70 - 130
Carbon tetrachloride	0.0500	0.03961		mg/L		79	70 - 130
Chlorobenzene	0.0500	0.05381		mg/L		108	70 - 130
Chloroform	0.0500	0.04812		mg/L		96	70 - 130
Hexachlorobutadiene	0.0500	0.05158		mg/L		103	70 - 130
Tetrachloroethene	0.0500	0.04965		mg/L		99	70 - 130
Trichloroethene	0.0500	0.05118		mg/L		102	70 - 130
Vinyl chloride	0.0500	0.06881	*+	mg/L		138	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*

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

Lab Sample ID: LCSD 680-824932/7
Matrix: Solid
Analysis Batch: 824932

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-Dichloroethene			0.0500	0.05474		mg/L		109	70 - 130	0	20
1,2-Dichloroethane			0.0500	0.04866		mg/L		97	70 - 130	3	50
1,4-Dichlorobenzene			0.0500	0.05403		mg/L		108	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2054		mg/L		82	69 - 114	7	30
Benzene			0.0500	0.05222		mg/L		104	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04008		mg/L		80	70 - 130	1	30
Chlorobenzene			0.0500	0.05411		mg/L		108	70 - 130	1	30
Chloroform			0.0500	0.04875		mg/L		98	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.05084		mg/L		102	70 - 130	1	20
Tetrachloroethene			0.0500	0.04943		mg/L		99	70 - 130	0	30
Trichloroethene			0.0500	0.05223		mg/L		104	70 - 130	2	30
Vinyl chloride			0.0500	0.07023	*+	mg/L		140	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*

Lab Sample ID: MB 680-825122/10
Matrix: Solid
Analysis Batch: 825122

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			02/29/24 14:02	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			02/29/24 14:02	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			02/29/24 14:02	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			02/29/24 14:02	1
Benzene	<0.000430		0.00100	0.000430	mg/L			02/29/24 14:02	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			02/29/24 14:02	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			02/29/24 14:02	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			02/29/24 14:02	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			02/29/24 14:02	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			02/29/24 14:02	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			02/29/24 14:02	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			02/29/24 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*02/29/24 14:02*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/29/24 14:02*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*02/29/24 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*02/29/24 14:02*	*1*

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

Lab Sample ID: LCS 680-825122/6
Matrix: Solid
Analysis Batch: 825122

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.05529		mg/L		111	70 - 130		
1,2-Dichloroethane			0.0500	0.04637		mg/L		93	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05376		mg/L		108	70 - 130		
2-Butanone (MEK)			0.250	0.1888		mg/L		76	69 - 114		
Benzene			0.0500	0.05239		mg/L		105	70 - 130		
Carbon tetrachloride			0.0500	0.04030		mg/L		81	70 - 130		
Chlorobenzene			0.0500	0.05330		mg/L		107	70 - 130		
Chloroform			0.0500	0.04824		mg/L		96	70 - 130		
Hexachlorobutadiene			0.0500	0.05133		mg/L		103	70 - 130		
Tetrachloroethene			0.0500	0.04898		mg/L		98	70 - 130		
Trichloroethene			0.0500	0.05156		mg/L		103	70 - 130		
Vinyl chloride			0.0500	0.07079	*+	mg/L		142	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*

Lab Sample ID: LCSD 680-825122/7
Matrix: Solid
Analysis Batch: 825122

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-Dichloroethene			0.0500	0.05505		mg/L		110	70 - 130	0	20
1,2-Dichloroethane			0.0500	0.04701		mg/L		94	70 - 130	1	50
1,4-Dichlorobenzene			0.0500	0.05327		mg/L		107	70 - 130	1	30
2-Butanone (MEK)			0.250	0.1932		mg/L		77	69 - 114	2	30
Benzene			0.0500	0.05224		mg/L		104	70 - 130	0	30
Carbon tetrachloride			0.0500	0.03960		mg/L		79	70 - 130	2	30
Chlorobenzene			0.0500	0.05433		mg/L		109	70 - 130	2	30
Chloroform			0.0500	0.04833		mg/L		97	70 - 130	0	30
Hexachlorobutadiene			0.0500	0.05090		mg/L		102	70 - 130	1	20
Tetrachloroethene			0.0500	0.04909		mg/L		98	70 - 130	0	30
Trichloroethene			0.0500	0.05174		mg/L		103	70 - 130	0	30
Vinyl chloride			0.0500	0.05572		mg/L		111	66 - 129	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*

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

Lab Sample ID: MB 680-825127/10
Matrix: Solid
Analysis Batch: 825127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			02/29/24 14:17	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			02/29/24 14:17	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			02/29/24 14:17	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			02/29/24 14:17	1
Benzene	<0.000430		0.00100	0.000430	mg/L			02/29/24 14:17	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			02/29/24 14:17	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			02/29/24 14:17	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			02/29/24 14:17	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			02/29/24 14:17	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			02/29/24 14:17	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			02/29/24 14:17	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			02/29/24 14:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*02/29/24 14:17*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*02/29/24 14:17*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*02/29/24 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*02/29/24 14:17*	*1*

Lab Sample ID: LCS 680-825127/6
Matrix: Solid
Analysis Batch: 825127

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04381		mg/L		88	70 - 130
1,2-Dichloroethane	0.0500	0.05437		mg/L		109	70 - 130
1,4-Dichlorobenzene	0.0500	0.05072		mg/L		101	70 - 130
2-Butanone (MEK)	0.250	0.1929		mg/L		77	69 - 114
Benzene	0.0500	0.05225		mg/L		104	70 - 130
Carbon tetrachloride	0.0500	0.05686		mg/L		114	70 - 130
Chlorobenzene	0.0500	0.05074		mg/L		101	70 - 130
Chloroform	0.0500	0.05421		mg/L		108	70 - 130
Hexachlorobutadiene	0.0500	0.05716		mg/L		114	70 - 130
Tetrachloroethene	0.0500	0.05844		mg/L		117	70 - 130
Trichloroethene	0.0500	0.05553		mg/L		111	70 - 130
Vinyl chloride	0.0500	0.06786	*+	mg/L		136	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*

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

Lab Sample ID: LCSD 680-825127/7
Matrix: Solid
Analysis Batch: 825127

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-Dichloroethene			0.0500	0.04458		mg/L		89	70 - 130	2	20
1,2-Dichloroethane			0.0500	0.05475		mg/L		110	70 - 130	1	50
1,4-Dichlorobenzene			0.0500	0.05043		mg/L		101	70 - 130	1	30
2-Butanone (MEK)			0.250	0.2087		mg/L		83	69 - 114	8	30
Benzene			0.0500	0.05274		mg/L		105	70 - 130	1	30
Carbon tetrachloride			0.0500	0.05427		mg/L		109	70 - 130	5	30
Chlorobenzene			0.0500	0.04907		mg/L		98	70 - 130	3	30
Chloroform			0.0500	0.04862		mg/L		97	70 - 130	11	30
Hexachlorobutadiene			0.0500	0.05831		mg/L		117	70 - 130	2	20
Tetrachloroethene			0.0500	0.05752		mg/L		115	70 - 130	2	30
Trichloroethene			0.0500	0.05608		mg/L		112	70 - 130	1	30
Vinyl chloride			0.0500	0.06559	*+	mg/L		131	66 - 129	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*

Lab Sample ID: LB 680-824625/1-A
Matrix: Solid
Analysis Batch: 824932

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 13:30	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:30	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 13:30	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 13:30	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 13:30	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 13:30	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 13:30	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:30	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 13:30	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 13:30	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			02/28/24 13:30	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 13:30	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*02/28/24 13:30*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 13:30*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 13:30*	*20*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*02/28/24 13:30*	*20*

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

Lab Sample ID: LB 680-824840/1-A
Matrix: Solid
Analysis Batch: 824932

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			02/28/24 19:25	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			02/28/24 19:25	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			02/28/24 19:25	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			02/28/24 19:25	20
Benzene	<0.00860		0.0200	0.00860	mg/L			02/28/24 19:25	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			02/28/24 19:25	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			02/28/24 19:25	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			02/28/24 19:25	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			02/28/24 19:25	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			02/28/24 19:25	20
Trichloroethene	0.01423	J	0.0200	0.00960	mg/L			02/28/24 19:25	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			02/28/24 19:25	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/28/24 19:25*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/28/24 19:25*	*20*
Toluene-d8 (Surr)	*94*		*70 - 130*		*02/28/24 19:25*	*20*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*02/28/24 19:25*	*20*

Lab Sample ID: 680-247121-A-8-A MS
Matrix: Solid
Analysis Batch: 824932

Client Sample ID: 680-247121-A-8-A MS
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.00720	*3	1.00	1.085		mg/L		109	70 - 130
1,2-Dichloroethane	<0.0100	*3	1.00	0.9277		mg/L		93	70 - 130
1,4-Dichlorobenzene	0.129	*3	1.00	1.048		mg/L		92	70 - 130
2-Butanone (MEK)	<0.0680	*3	5.00	4.441		mg/L		89	69 - 114
Benzene	<0.00860	*3	1.00	1.053		mg/L		105	70 - 130
Carbon tetrachloride	<0.00660	*3	1.00	0.8811		mg/L		88	70 - 130
Chlorobenzene	0.435	*3 F1	1.00	1.083	F1	mg/L		65	70 - 130
Chloroform	0.872	*3 F1	1.00	0.9715	F1	mg/L		10	70 - 130
Hexachlorobutadiene	<0.0500	*3	1.00	0.9241		mg/L		92	70 - 130
Tetrachloroethene	<0.0150	*3	1.00	1.059		mg/L		106	70 - 130
Trichloroethene	464	E *3	1.00	1.201	4	mg/L		-4630 7	70 - 130
Vinyl chloride	<0.0100	*3 *+ F1	1.00	1.259		mg/L		126	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*

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

Lab Sample ID: 680-247121-A-8-A MSD
Matrix: Solid
Analysis Batch: 824932

Client Sample ID: 680-247121-A-8-A MSD
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	<0.00720	*3	1.00	1.102		mg/L		110	70 - 130	2	20
1,2-Dichloroethane	<0.0100	*3	1.00	0.9730		mg/L		97	70 - 130	5	50
1,4-Dichlorobenzene	0.129	*3	1.00	1.065		mg/L		94	70 - 130	2	20
2-Butanone (MEK)	<0.0680	*3	5.00	4.569		mg/L		91	69 - 114	3	20
Benzene	<0.00860	*3	1.00	1.081		mg/L		108	70 - 130	3	20
Carbon tetrachloride	<0.00660	*3	1.00	0.9123		mg/L		91	70 - 130	3	20
Chlorobenzene	0.435	*3 F1	1.00	1.100	F1	mg/L		67	70 - 130	2	20
Chloroform	0.872	*3 F1	1.00	0.9970	F1	mg/L		12	70 - 130	3	20
Hexachlorobutadiene	<0.0500	*3	1.00	0.9520		mg/L		95	70 - 130	3	20
Tetrachloroethene	<0.0150	*3	1.00	1.073		mg/L		107	70 - 130	1	20
Trichloroethene	464	E *3	1.00	1.207	4	mg/L		-4630 6	70 - 130	1	20
Vinyl chloride	<0.0100	*3 *+ F1	1.00	1.337	F1	mg/L		134	66 - 129	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*

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

Lab Sample ID: MB 680-824951/1-A
Matrix: Solid
Analysis Batch: 825006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		02/28/24 09:39	02/28/24 14:12	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		02/28/24 09:39	02/28/24 14:12	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		02/28/24 09:39	02/28/24 14:12	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		02/28/24 09:39	02/28/24 14:12	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		02/28/24 09:39	02/28/24 14:12	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		02/28/24 09:39	02/28/24 14:12	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		02/28/24 09:39	02/28/24 14:12	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		02/28/24 09:39	02/28/24 14:12	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		02/28/24 09:39	02/28/24 14:12	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		02/28/24 09:39	02/28/24 14:12	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		02/28/24 09:39	02/28/24 14:12	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		02/28/24 09:39	02/28/24 14:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*30 - 130*	*02/28/24 09:39*	*02/28/24 14:12*	*1*
2-Fluorobiphenyl (Surr)	*77*		*25 - 130*	*02/28/24 09:39*	*02/28/24 14:12*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 130*	*02/28/24 09:39*	*02/28/24 14:12*	*1*
Terphenyl-d14 (Surr)	*88*		*35 - 131*	*02/28/24 09:39*	*02/28/24 14:12*	*1*
Phenol-d5 (Surr)	*28*		*10 - 130*	*02/28/24 09:39*	*02/28/24 14:12*	*1*
Nitrobenzene-d5 (Surr)	*77*		*30 - 130*	*02/28/24 09:39*	*02/28/24 14:12*	*1*

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

Lab Sample ID: LCS 680-824951/2-A
Matrix: Solid
Analysis Batch: 825006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1171		mg/L		59	13 - 130
Pyridine	0.400	0.06402		mg/L		16	10 - 130
Hexachlorobenzene	0.200	0.1563		mg/L		78	30 - 130
2,4-Dinitrotoluene	0.200	0.1601		mg/L		80	37 - 130
Hexachloroethane	0.200	0.1125		mg/L		56	12 - 130
Hexachlorobutadiene	0.200	0.1262		mg/L		63	12 - 130
Pentachlorophenol	0.400	0.2737		mg/L		68	24 - 130
2,4,6-Trichlorophenol	0.200	0.1524		mg/L		76	28 - 130
2,4,5-Trichlorophenol	0.200	0.1501		mg/L		75	26 - 130
Nitrobenzene	0.200	0.1276		mg/L		64	32 - 130
2-Methylphenol	0.200	0.1142		mg/L		57	21 - 130
3 & 4 Methylphenol	0.200	0.1044		mg/L		52	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*80*		*30 - 130*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*
2-Fluorophenol (Surr)	*37*		*10 - 130*
Terphenyl-d14 (Surr)	*85*		*35 - 131*
Phenol-d5 (Surr)	*27*		*10 - 130*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*

Lab Sample ID: LB1 680-824624/1-B
Matrix: Solid
Analysis Batch: 825006

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 824951

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 18:27	1
Pyridine	<0.0370		0.250	0.0370	mg/L		02/28/24 09:39	02/28/24 18:27	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		02/28/24 09:39	02/28/24 18:27	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		02/28/24 09:39	02/28/24 18:27	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 18:27	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		02/28/24 09:39	02/28/24 18:27	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		02/28/24 09:39	02/28/24 18:27	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		02/28/24 09:39	02/28/24 18:27	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		02/28/24 09:39	02/28/24 18:27	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		02/28/24 09:39	02/28/24 18:27	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		02/28/24 09:39	02/28/24 18:27	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		02/28/24 09:39	02/28/24 18:27	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*30 - 130*	*02/28/24 09:39*	*02/28/24 18:27*	*1*
2-Fluorobiphenyl (Surr)	*74*		*25 - 130*	*02/28/24 09:39*	*02/28/24 18:27*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*02/28/24 09:39*	*02/28/24 18:27*	*1*
Terphenyl-d14 (Surr)	*87*		*35 - 131*	*02/28/24 09:39*	*02/28/24 18:27*	*1*
Phenol-d5 (Surr)	*26*		*10 - 130*	*02/28/24 09:39*	*02/28/24 18:27*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*02/28/24 09:39*	*02/28/24 18:27*	*1*

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

Lab Sample ID: 680-247121-11 MS
Matrix: Solid
Analysis Batch: 825006

Client Sample ID: NH-07
Prep Type: TCLP
Prep Batch: 824951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.6926		mg/L		69	13 - 130
Pyridine	<0.0370		2.00	0.3573		mg/L		18	10 - 130
Hexachlorobenzene	<0.00800		1.00	0.8661		mg/L		87	30 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.8735		mg/L		87	37 - 130
Hexachloroethane	<0.0180		1.00	0.7229		mg/L		72	12 - 130
Hexachlorobutadiene	<0.0200		1.00	0.7407		mg/L		74	12 - 130
Pentachlorophenol	<0.0500		2.00	1.580		mg/L		79	24 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.8802		mg/L		88	28 - 130
2,4,5-Trichlorophenol	<0.0160		1.00	0.8428		mg/L		84	26 - 130
Nitrobenzene	<0.0180		1.00	0.7792		mg/L		78	32 - 130
2-Methylphenol	<0.00900		1.00	0.6496		mg/L		65	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.5952		mg/L		60	19 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*30 - 130*
2-Fluorobiphenyl (Surr)	*75*		*25 - 130*
2-Fluorophenol (Surr)	*41*		*10 - 130*
Terphenyl-d14 (Surr)	*90*		*35 - 131*
Phenol-d5 (Surr)	*29*		*10 - 130*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*

Lab Sample ID: 680-247121-11 MSD
Matrix: Solid
Analysis Batch: 825006

Client Sample ID: NH-07
Prep Type: TCLP
Prep Batch: 824951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.6687		mg/L		67	13 - 130	4	50
Pyridine	<0.0370		2.00	0.3879		mg/L		19	10 - 130	8	50
Hexachlorobenzene	<0.00800		1.00	0.8547		mg/L		85	30 - 130	1	50
2,4-Dinitrotoluene	<0.0120		1.00	0.8926		mg/L		89	37 - 130	2	50
Hexachloroethane	<0.0180		1.00	0.6533		mg/L		65	12 - 130	10	50
Hexachlorobutadiene	<0.0200		1.00	0.7143		mg/L		71	12 - 130	4	50
Pentachlorophenol	<0.0500		2.00	1.534		mg/L		77	24 - 130	3	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.8928		mg/L		89	28 - 130	1	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.8638		mg/L		86	26 - 130	2	50
Nitrobenzene	<0.0180		1.00	0.7288		mg/L		73	32 - 130	7	50
2-Methylphenol	<0.00900		1.00	0.6359		mg/L		64	21 - 130	2	50
3 & 4 Methylphenol	<0.00700		1.00	0.6070		mg/L		61	19 - 130	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*30 - 130*
2-Fluorobiphenyl (Surr)	*75*		*25 - 130*
2-Fluorophenol (Surr)	*41*		*10 - 130*
Terphenyl-d14 (Surr)	*90*		*35 - 131*
Phenol-d5 (Surr)	*29*		*10 - 130*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*

GC/MS VOA

Leach Batch: 824625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-1	H-01a	TCLP	Solid	1311	
680-247121-2	H-01b	TCLP	Solid	1311	
680-247121-3	H-02a	TCLP	Solid	1311	
680-247121-4	H-02b	TCLP	Solid	1311	
680-247121-5	NH-07a	TCLP	Solid	1311	
680-247121-6	NH-07b	TCLP	Solid	1311	
680-247121-7	NH-08a	TCLP	Solid	1311	
680-247121-8	NH-08b	TCLP	Solid	1311	
LB 680-824625/1-A	Method Blank	TCLP	Solid	1311	
680-247121-A-8-A MS	680-247121-A-8-A MS	TCLP	Solid	1311	
680-247121-A-8-A MSD	680-247121-A-8-A MSD	TCLP	Solid	1311	

Leach Batch: 824840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-9	NH-09a	TCLP	Solid	1311	
680-247121-10	NH-09b	TCLP	Solid	1311	
680-247121-17	NH-10a	TCLP	Solid	1311	
680-247121-18	NH-10b	TCLP	Solid	1311	
LB 680-824840/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 824932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-1	H-01a	TCLP	Solid	8260D	824625
680-247121-2	H-01b	TCLP	Solid	8260D	824625
680-247121-3	H-02a	TCLP	Solid	8260D	824625
680-247121-9	NH-09a	TCLP	Solid	8260D	824840
680-247121-10	NH-09b	TCLP	Solid	8260D	824840
680-247121-17	NH-10a	TCLP	Solid	8260D	824840
680-247121-18	NH-10b	TCLP	Solid	8260D	824840
LB 680-824625/1-A	Method Blank	TCLP	Solid	8260D	824625
LB 680-824840/1-A	Method Blank	TCLP	Solid	8260D	824840
MB 680-824932/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-824932/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-824932/7	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247121-A-8-A MS	680-247121-A-8-A MS	TCLP	Solid	8260D	824625
680-247121-A-8-A MSD	680-247121-A-8-A MSD	TCLP	Solid	8260D	824625

Analysis Batch: 825122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-5	NH-07a	TCLP	Solid	8260D	824625
680-247121-6	NH-07b	TCLP	Solid	8260D	824625
680-247121-8	NH-08b	TCLP	Solid	8260D	824625
MB 680-825122/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-825122/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-825122/7	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 825127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-4	H-02b	TCLP	Solid	8260D	824625
680-247121-7	NH-08a	TCLP	Solid	8260D	824625
680-247121-10	NH-09b	TCLP	Solid	8260D	824840

GC/MS VOA (Continued)

Analysis Batch: 825127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-825127/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-825127/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-825127/7	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 824624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-11	NH-07	TCLP	Solid	1311	
680-247121-12	NH-08	TCLP	Solid	1311	
680-247121-13	NH-09	TCLP	Solid	1311	
680-247121-14	NH-10	TCLP	Solid	1311	
680-247121-15	H-01	TCLP	Solid	1311	
680-247121-16	H-02	TCLP	Solid	1311	
LB1 680-824624/1-B	Method Blank	TCLP	Solid	1311	
680-247121-11 MS	NH-07	TCLP	Solid	1311	
680-247121-11 MSD	NH-07	TCLP	Solid	1311	

Prep Batch: 824951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-11	NH-07	TCLP	Solid	3510C	824624
680-247121-12	NH-08	TCLP	Solid	3510C	824624
680-247121-13	NH-09	TCLP	Solid	3510C	824624
680-247121-14	NH-10	TCLP	Solid	3510C	824624
680-247121-15	H-01	TCLP	Solid	3510C	824624
680-247121-16	H-02	TCLP	Solid	3510C	824624
LB1 680-824624/1-B	Method Blank	TCLP	Solid	3510C	824624
MB 680-824951/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-824951/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-247121-11 MS	NH-07	TCLP	Solid	3510C	824624
680-247121-11 MSD	NH-07	TCLP	Solid	3510C	824624

Analysis Batch: 825006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247121-11	NH-07	TCLP	Solid	8270E	824951
680-247121-12	NH-08	TCLP	Solid	8270E	824951
680-247121-13	NH-09	TCLP	Solid	8270E	824951
680-247121-14	NH-10	TCLP	Solid	8270E	824951
680-247121-15	H-01	TCLP	Solid	8270E	824951
680-247121-16	H-02	TCLP	Solid	8270E	824951
LB1 680-824624/1-B	Method Blank	TCLP	Solid	8270E	824951
MB 680-824951/1-A	Method Blank	Total/NA	Solid	8270E	824951
LCS 680-824951/2-A	Lab Control Sample	Total/NA	Solid	8270E	824951
680-247121-11 MS	NH-07	TCLP	Solid	8270E	824951
680-247121-11 MSD	NH-07	TCLP	Solid	8270E	824951

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Client Sample ID: H-01a

Lab Sample ID: 680-247121-1

Date Collected: 02/23/24 12:10

Matrix: Solid

Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 14:36	NTA	EET SAV

Instrument ID: CMSAB

Client Sample ID: H-01b

Lab Sample ID: 680-247121-2

Date Collected: 02/23/24 12:15

Matrix: Solid

Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		1000	5 mL	5 mL	824932	02/28/24 18:20	NTA	EET SAV

Instrument ID: CMSAB

Client Sample ID: H-02a

Lab Sample ID: 680-247121-3

Date Collected: 02/23/24 12:20

Matrix: Solid

Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.07 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 18:42	NTA	EET SAV

Instrument ID: CMSAB

Client Sample ID: H-02b

Lab Sample ID: 680-247121-4

Date Collected: 02/23/24 12:25

Matrix: Solid

Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		100	5 mL	5 mL	825127	02/29/24 15:06	BL	EET SAV

Instrument ID: CMSB

Client Sample ID: NH-07a

Lab Sample ID: 680-247121-5

Date Collected: 02/23/24 15:10

Matrix: Solid

Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825122	02/29/24 15:28	BL	EET SAV

Instrument ID: CMSAB

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Client Sample ID: NH-07b

Lab Sample ID: 680-247121-6

Date Collected: 02/23/24 15:15
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825122	02/29/24 15:50	BL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: NH-08a

Lab Sample ID: 680-247121-7

Date Collected: 02/23/24 15:20
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825127	02/29/24 15:36	BL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: NH-08b

Lab Sample ID: 680-247121-8

Date Collected: 02/23/24 15:25
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	824625	02/26/24 16:29	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825122	02/29/24 14:56	BL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: NH-09a

Lab Sample ID: 680-247121-9

Date Collected: 02/23/24 15:30
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	824840	02/27/24 20:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 19:47	NTA	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: NH-09b

Lab Sample ID: 680-247121-10

Date Collected: 02/23/24 15:35
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	824840	02/27/24 20:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 20:09	NTA	EET SAV
	Instrument ID: CMSAB									
TCLP	Leach	1311			25.02 g	500 mL	824840	02/27/24 20:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825127	02/29/24 15:57	BL	EET SAV
	Instrument ID: CMSB									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Client Sample ID: NH-07

Lab Sample ID: 680-247121-11

Date Collected: 02/23/24 15:10
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.06 g	2000 mL	824624	02/26/24 16:26	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824951	02/28/24 09:39	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825006	02/28/24 15:54	LA	EET SAV

Instrument ID: CMSN

Client Sample ID: NH-08

Lab Sample ID: 680-247121-12

Date Collected: 02/23/24 15:20
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	824624	02/26/24 16:26	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824951	02/28/24 09:39	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825006	02/28/24 16:19	LA	EET SAV

Instrument ID: CMSN

Client Sample ID: NH-09

Lab Sample ID: 680-247121-13

Date Collected: 02/23/24 15:30
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.08 g	2000 mL	824624	02/26/24 16:26	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824951	02/28/24 09:39	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825006	02/28/24 16:45	LA	EET SAV

Instrument ID: CMSN

Client Sample ID: NH-10

Lab Sample ID: 680-247121-14

Date Collected: 02/23/24 17:10
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.04 g	2000 mL	824624	02/26/24 16:26	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824951	02/28/24 09:39	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825006	02/28/24 17:11	LA	EET SAV

Instrument ID: CMSN

Client Sample ID: H-01

Lab Sample ID: 680-247121-15

Date Collected: 02/23/24 12:10
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	824624	02/26/24 16:26	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824951	02/28/24 09:39	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825006	02/28/24 17:36	LA	EET SAV

Instrument ID: CMSN

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Client Sample ID: H-02

Lab Sample ID: 680-247121-16

Date Collected: 02/23/24 12:20
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.07 g	2000 mL	824624	02/26/24 16:26	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	824951	02/28/24 09:39	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825006	02/28/24 18:01	LA	EET SAV

Instrument ID: CMSN

Client Sample ID: NH-10a

Lab Sample ID: 680-247121-17

Date Collected: 02/23/24 15:10
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.03 g	500 mL	824840	02/27/24 20:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 20:31	NTA	EET SAV

Instrument ID: CMSAB

Client Sample ID: NH-10b

Lab Sample ID: 680-247121-18

Date Collected: 02/23/24 15:15
Matrix: Solid
Date Received: 02/24/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.04 g	500 mL	824840	02/27/24 20:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	824932	02/28/24 20:52	NTA	EET SAV

Instrument ID: CMSAB

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: 680-247121-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247121-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Les Abbott	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.8
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 8 of 12
Company: Terracon Consultants, Inc.	PWSID:	Analysis Requested		Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): 3 day			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water								Total Number of containers	Special Instructions/Note:
Preservation Code:							F	N	N	N	N	N	A									
H-01a	2/23/24	12:10	G	S							X											
H-01b		12:15	G	S							X											
H-02a		12:20	G	S							X											
H-02b		12:25	G	S							X											
NH-07a		15:10	G	S							X											
NH-~~08~~ 07b		15:15	G	S							X											
NH-~~09~~ 08a		15:20	G	S							X											
NH-08b		15:25	G	S							X											
NH-09a		15:30	G	S							X											
NH-09b	↓	15:35	G	S							X											

680-247121 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
Les J Abbott	2/23/24 19:00				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/24/24 0952	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.1/1.1

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.9
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 9 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): 3 day			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	F	N	N	N	N	N	A	X	
NH-07	02/23	1510	C									X			
NH-08		1520	C									X			
NH-09		1530	C									X			
NH-10		1710	C									X			
H-01		1210	C									X			
H-02		1220	C									X			
NH-10a		1510	G								X				
NH-10b		1515	G								X				
TB_20240223		—	G												ON HOLD

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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
1		02/23/24 1900				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	2/24/24 0952	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1/1/1

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247121-1

Login Number: 247121

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/6/2024 4:41:04 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247285-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Qualifiers

GC/MS VOA

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

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247285-1	H-03a	Solid	02/26/24 16:00	02/28/24 09:50
680-247285-2	H-03b	Solid	02/26/24 16:05	02/28/24 09:50
680-247285-3	H-04a	Solid	02/26/24 16:10	02/28/24 09:50
680-247285-4	H-04b	Solid	02/26/24 16:15	02/28/24 09:50
680-247285-5	H-05a	Solid	02/26/24 16:20	02/28/24 09:50
680-247285-6	H-05b	Solid	02/26/24 16:25	02/28/24 09:50
680-247285-7	H-06a	Solid	02/26/24 16:30	02/28/24 09:50
680-247285-8	H-06b	Solid	02/26/24 16:35	02/28/24 09:50
680-247285-9	H-03	Solid	02/26/24 16:00	02/28/24 09:50
680-247285-10	H-04	Solid	02/26/24 16:10	02/28/24 09:50
680-247285-11	H-05	Solid	02/26/24 16:20	02/28/24 09:50
680-247285-12	H-06	Solid	02/26/24 16:30	02/28/24 09:50

Job ID: 680-247285-1 Eurofins Savannah

Job Narrative
680-247285-1

Receipt
The samples were received on 2/28/2024 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

GC/MS VOA
Method 8260D - TCLP: The matrix spike and/or the matrix spike duplicate ran outside of the 12 hour tune window. (680-247285-A-1-A MS) and (680-247285-A-1-A MSD)

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Client Sample ID: H-03a

Date Collected: 02/26/24 16:00
Date Received: 02/28/24 09:50

Lab Sample ID: 680-247285-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.0146**	**J**	0.0200	0.00720	mg/L			03/03/24 15:41	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:41	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 15:41	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 15:41	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 15:41	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 15:41	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 15:41	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:41	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 15:41	20
Tetrachloroethene	**0.0156**	**J**	0.0200	0.0150	mg/L			03/03/24 15:41	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/03/24 15:41*	*20*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/03/24 15:41*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/03/24 15:41*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*03/03/24 15:41*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**19.4**		0.200	0.0960	mg/L			03/04/24 17:41	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/04/24 17:41*	*200*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/04/24 17:41*	*200*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/04/24 17:41*	*200*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*03/04/24 17:41*	*200*

Client Sample ID: H-03b

Date Collected: 02/26/24 16:05
Date Received: 02/28/24 09:50

Lab Sample ID: 680-247285-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 16:05	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:05	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 16:05	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 16:05	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 16:05	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 16:05	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 16:05	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:05	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 16:05	20
Tetrachloroethene	**0.0195**	**J**	0.0200	0.0150	mg/L			03/03/24 16:05	20
Trichloroethene	**26.9**		0.200	0.0960	mg/L			03/04/24 18:03	200
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/03/24 16:05*	*20*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/04/24 18:03*	*200*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/03/24 16:05*	*20*

Client Sample ID: H-03b

Lab Sample ID: 680-247285-2

Date Collected: 02/26/24 16:05
Matrix: Solid
Date Received: 02/28/24 09:50

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/04/24 18:03*	*200*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/03/24 16:05*	*20*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/04/24 18:03*	*200*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*03/03/24 16:05*	*20*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*03/04/24 18:03*	*200*

Client Sample ID: H-04a

Lab Sample ID: 680-247285-3

Date Collected: 02/26/24 16:10
Matrix: Solid
Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 16:28	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:28	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 16:28	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 16:28	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 16:28	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 16:28	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 16:28	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:28	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 16:28	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 16:28	20
Trichloroethene	**3.11**		0.0200	0.00960	mg/L			03/04/24 18:24	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/03/24 16:28*	*20*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/04/24 18:24*	*20*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/03/24 16:28*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/04/24 18:24*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/03/24 16:28*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/04/24 18:24*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*03/03/24 16:28*	*20*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*03/04/24 18:24*	*20*

Client Sample ID: H-04b

Lab Sample ID: 680-247285-4

Date Collected: 02/26/24 16:15
Matrix: Solid
Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 15:03	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:03	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 15:03	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 15:03	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 15:03	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 15:03	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 15:03	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:03	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 15:03	20

Client Sample ID: H-04b

Lab Sample ID: 680-247285-4

Date Collected: 02/26/24 16:15

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 15:03	20
Trichloroethene	**2.66**		0.0200	0.00960	mg/L			03/03/24 15:03	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/03/24 15:03*	*20*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*03/03/24 15:03*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/03/24 15:03*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*03/03/24 15:03*	*20*

Client Sample ID: H-05a

Lab Sample ID: 680-247285-5

Date Collected: 02/26/24 16:20

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 15:26	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:26	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 15:26	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 15:26	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 15:26	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 15:26	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 15:26	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:26	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 15:26	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 15:26	20
Trichloroethene	**0.177**		0.0200	0.00960	mg/L			03/03/24 15:26	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/03/24 15:26*	*20*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*03/03/24 15:26*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/03/24 15:26*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*03/03/24 15:26*	*20*

Client Sample ID: H-05b

Lab Sample ID: 680-247285-6

Date Collected: 02/26/24 16:25

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 15:48	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:48	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 15:48	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 15:48	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 15:48	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 15:48	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 15:48	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:48	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 15:48	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 15:48	20

Client Sample ID: H-05b

Lab Sample ID: 680-247285-6

Date Collected: 02/26/24 16:25

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.0234		0.0200	0.00960	mg/L			03/03/24 15:48	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 15:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*03/03/24 15:48*	*20*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*03/03/24 15:48*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/03/24 15:48*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*03/03/24 15:48*	*20*

Client Sample ID: H-06a

Lab Sample ID: 680-247285-7

Date Collected: 02/26/24 16:30

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 16:10	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:10	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 16:10	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 16:10	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 16:10	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 16:10	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 16:10	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:10	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 16:10	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 16:10	20
Trichloroethene	0.0174	J	0.0200	0.00960	mg/L			03/03/24 16:10	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:10	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/03/24 16:10*	*20*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*03/03/24 16:10*	*20*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/03/24 16:10*	*20*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*03/03/24 16:10*	*20*

Client Sample ID: H-06b

Lab Sample ID: 680-247285-8

Date Collected: 02/26/24 16:35

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 16:33	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:33	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 16:33	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 16:33	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 16:33	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 16:33	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 16:33	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:33	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 16:33	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 16:33	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/03/24 16:33	20

Client Sample ID: H-06b

Lab Sample ID: 680-247285-8

Date Collected: 02/26/24 16:35

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 16:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*03/03/24 16:33*	*20*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*03/03/24 16:33*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/03/24 16:33*	*20*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*03/03/24 16:33*	*20*

Client Sample ID: H-03

Lab Sample ID: 680-247285-9

Date Collected: 02/26/24 16:00

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 02:19	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/04/24 12:09	03/05/24 02:19	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/04/24 12:09	03/05/24 02:19	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/04/24 12:09	03/05/24 02:19	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 02:19	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/04/24 12:09	03/05/24 02:19	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/04/24 12:09	03/05/24 02:19	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/04/24 12:09	03/05/24 02:19	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 02:19	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 02:19	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/04/24 12:09	03/05/24 02:19	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/04/24 12:09	03/05/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*30 - 130*	*03/04/24 12:09*	*03/05/24 02:19*	*1*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/04/24 12:09*	*03/05/24 02:19*	*1*
2-Fluorophenol (Surr)	*40*		*10 - 130*	*03/04/24 12:09*	*03/05/24 02:19*	*1*
Terphenyl-d14 (Surr)	*84*		*35 - 131*	*03/04/24 12:09*	*03/05/24 02:19*	*1*
Phenol-d5 (Surr)	*29*		*10 - 130*	*03/04/24 12:09*	*03/05/24 02:19*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/04/24 12:09*	*03/05/24 02:19*	*1*

Client Sample ID: H-04

Lab Sample ID: 680-247285-10

Date Collected: 02/26/24 16:10

Matrix: Solid

Date Received: 02/28/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 02:45	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/04/24 12:09	03/05/24 02:45	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/04/24 12:09	03/05/24 02:45	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/04/24 12:09	03/05/24 02:45	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 02:45	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/04/24 12:09	03/05/24 02:45	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/04/24 12:09	03/05/24 02:45	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/04/24 12:09	03/05/24 02:45	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 02:45	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 02:45	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Client Sample ID: H-04

Date Collected: 02/26/24 16:10
Date Received: 02/28/24 09:50

Lab Sample ID: 680-247285-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/04/24 12:09	03/05/24 02:45	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/04/24 12:09	03/05/24 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*30 - 130*	*03/04/24 12:09*	*03/05/24 02:45*	*1*
2-Fluorobiphenyl (Surr)	*55*		*25 - 130*	*03/04/24 12:09*	*03/05/24 02:45*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 130*	*03/04/24 12:09*	*03/05/24 02:45*	*1*
Terphenyl-d14 (Surr)	*67*		*35 - 131*	*03/04/24 12:09*	*03/05/24 02:45*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/04/24 12:09*	*03/05/24 02:45*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/04/24 12:09*	*03/05/24 02:45*	*1*

Client Sample ID: H-05

Date Collected: 02/26/24 16:20
Date Received: 02/28/24 09:50

Lab Sample ID: 680-247285-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 03:10	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/04/24 12:09	03/05/24 03:10	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/04/24 12:09	03/05/24 03:10	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/04/24 12:09	03/05/24 03:10	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 03:10	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/04/24 12:09	03/05/24 03:10	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/04/24 12:09	03/05/24 03:10	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/04/24 12:09	03/05/24 03:10	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 03:10	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 03:10	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/04/24 12:09	03/05/24 03:10	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/04/24 12:09	03/05/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*30 - 130*	*03/04/24 12:09*	*03/05/24 03:10*	*1*
2-Fluorobiphenyl (Surr)	*68*		*25 - 130*	*03/04/24 12:09*	*03/05/24 03:10*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/04/24 12:09*	*03/05/24 03:10*	*1*
Terphenyl-d14 (Surr)	*76*		*35 - 131*	*03/04/24 12:09*	*03/05/24 03:10*	*1*
Phenol-d5 (Surr)	*28*		*10 - 130*	*03/04/24 12:09*	*03/05/24 03:10*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/04/24 12:09*	*03/05/24 03:10*	*1*

Client Sample ID: H-06

Date Collected: 02/26/24 16:30
Date Received: 02/28/24 09:50

Lab Sample ID: 680-247285-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 03:36	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/04/24 12:09	03/05/24 03:36	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/04/24 12:09	03/05/24 03:36	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/04/24 12:09	03/05/24 03:36	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 03:36	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/04/24 12:09	03/05/24 03:36	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/04/24 12:09	03/05/24 03:36	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Client Sample ID: H-06
Date Collected: 02/26/24 16:30
Date Received: 02/28/24 09:50

Lab Sample ID: 680-247285-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/04/24 12:09	03/05/24 03:36	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/05/24 03:36	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/05/24 03:36	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/04/24 12:09	03/05/24 03:36	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/04/24 12:09	03/05/24 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*30 - 130*	*03/04/24 12:09*	*03/05/24 03:36*	*1*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/04/24 12:09*	*03/05/24 03:36*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 130*	*03/04/24 12:09*	*03/05/24 03:36*	*1*
Terphenyl-d14 (Surr)	*84*		*35 - 131*	*03/04/24 12:09*	*03/05/24 03:36*	*1*
Phenol-d5 (Surr)	*29*		*10 - 130*	*03/04/24 12:09*	*03/05/24 03:36*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/04/24 12:09*	*03/05/24 03:36*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

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

Lab Sample ID: MB 680-825528/9
Matrix: Solid
Analysis Batch: 825528

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/03/24 14:41	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/03/24 14:41	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/03/24 14:41	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/03/24 14:41	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/03/24 14:41	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/03/24 14:41	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/03/24 14:41	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/03/24 14:41	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/03/24 14:41	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/03/24 14:41	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/03/24 14:41	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/03/24 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/03/24 14:41*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*03/03/24 14:41*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/03/24 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*03/03/24 14:41*	*1*

Lab Sample ID: LCS 680-825528/4
Matrix: Solid
Analysis Batch: 825528

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04605		mg/L		92	70 - 130
1,2-Dichloroethane	0.0500	0.04839		mg/L		97	70 - 130
1,4-Dichlorobenzene	0.0500	0.04988		mg/L		100	70 - 130
2-Butanone (MEK)	0.250	0.2312		mg/L		92	69 - 114
Benzene	0.0500	0.04828		mg/L		97	70 - 130
Carbon tetrachloride	0.0500	0.04552		mg/L		91	70 - 130
Chlorobenzene	0.0500	0.04930		mg/L		99	70 - 130
Chloroform	0.0500	0.04979		mg/L		100	70 - 130
Hexachlorobutadiene	0.0500	0.04988		mg/L		100	70 - 130
Tetrachloroethene	0.0500	0.05187		mg/L		104	70 - 130
Trichloroethene	0.0500	0.04843		mg/L		97	70 - 130
Vinyl chloride	0.0500	0.04471		mg/L		89	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*

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

Lab Sample ID: LCSD 680-825528/5
Matrix: Solid
Analysis Batch: 825528

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-Dichloroethene			0.0500	0.04575		mg/L		92	70 - 130	1	20
1,2-Dichloroethane			0.0500	0.05048		mg/L		101	70 - 130	4	50
1,4-Dichlorobenzene			0.0500	0.05052		mg/L		101	70 - 130	1	30
2-Butanone (MEK)			0.250	0.2456		mg/L		98	69 - 114	6	30
Benzene			0.0500	0.04878		mg/L		98	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04443		mg/L		89	70 - 130	2	30
Chlorobenzene			0.0500	0.04968		mg/L		99	70 - 130	1	30
Chloroform			0.0500	0.05130		mg/L		103	70 - 130	3	30
Hexachlorobutadiene			0.0500	0.04893		mg/L		98	70 - 130	2	20
Tetrachloroethene			0.0500	0.05113		mg/L		102	70 - 130	1	30
Trichloroethene			0.0500	0.04838		mg/L		97	70 - 130	0	30
Vinyl chloride			0.0500	0.04423		mg/L		88	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*

Lab Sample ID: MB 680-825549/9
Matrix: Solid
Analysis Batch: 825549

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/03/24 14:30	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/03/24 14:30	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/03/24 14:30	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/03/24 14:30	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/03/24 14:30	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/03/24 14:30	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/03/24 14:30	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/03/24 14:30	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/03/24 14:30	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/03/24 14:30	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/03/24 14:30	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/03/24 14:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/03/24 14:30*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/03/24 14:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/03/24 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*03/03/24 14:30*	*1*

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

Lab Sample ID: LCS 680-825549/4
Matrix: Solid
Analysis Batch: 825549

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04785		mg/L		96	70 - 130		
1,2-Dichloroethane			0.0500	0.05287		mg/L		106	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05404		mg/L		108	70 - 130		
2-Butanone (MEK)			0.250	0.2572		mg/L		103	69 - 114		
Benzene			0.0500	0.05184		mg/L		104	70 - 130		
Carbon tetrachloride			0.0500	0.05083		mg/L		102	70 - 130		
Chlorobenzene			0.0500	0.05368		mg/L		107	70 - 130		
Chloroform			0.0500	0.05132		mg/L		103	70 - 130		
Hexachlorobutadiene			0.0500	0.05357		mg/L		107	70 - 130		
Tetrachloroethene			0.0500	0.05202		mg/L		104	70 - 130		
Trichloroethene			0.0500	0.04823		mg/L		96	70 - 130		
Vinyl chloride			0.0500	0.05259		mg/L		105	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*

Lab Sample ID: LCSD 680-825549/5
Matrix: Solid
Analysis Batch: 825549

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-Dichloroethene			0.0500	0.04776		mg/L		96	70 - 130	0	20
1,2-Dichloroethane			0.0500	0.05318		mg/L		106	70 - 130	1	50
1,4-Dichlorobenzene			0.0500	0.05422		mg/L		108	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2714		mg/L		109	69 - 114	5	30
Benzene			0.0500	0.05172		mg/L		103	70 - 130	0	30
Carbon tetrachloride			0.0500	0.05052		mg/L		101	70 - 130	1	30
Chlorobenzene			0.0500	0.05347		mg/L		107	70 - 130	0	30
Chloroform			0.0500	0.05220		mg/L		104	70 - 130	2	30
Hexachlorobutadiene			0.0500	0.05313		mg/L		106	70 - 130	1	20
Tetrachloroethene			0.0500	0.05176		mg/L		104	70 - 130	0	30
Trichloroethene			0.0500	0.04856		mg/L		97	70 - 130	1	30
Vinyl chloride			0.0500	0.05292		mg/L		106	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*

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

Lab Sample ID: MB 680-825656/10
Matrix: Solid
Analysis Batch: 825656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/04/24 13:20	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/04/24 13:20	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/04/24 13:20	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/04/24 13:20	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/04/24 13:20	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/04/24 13:20	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/04/24 13:20	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/04/24 13:20	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/04/24 13:20	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/04/24 13:20	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/04/24 13:20	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/04/24 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/04/24 13:20*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/04/24 13:20*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/04/24 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*03/04/24 13:20*	*1*

Lab Sample ID: LCS 680-825656/5
Matrix: Solid
Analysis Batch: 825656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04740		mg/L		95	70 - 130
1,2-Dichloroethane	0.0500	0.05195		mg/L		104	70 - 130
1,4-Dichlorobenzene	0.0500	0.05212		mg/L		104	70 - 130
2-Butanone (MEK)	0.250	0.2682		mg/L		107	69 - 114
Benzene	0.0500	0.05037		mg/L		101	70 - 130
Carbon tetrachloride	0.0500	0.04867		mg/L		97	70 - 130
Chlorobenzene	0.0500	0.05147		mg/L		103	70 - 130
Chloroform	0.0500	0.05219		mg/L		104	70 - 130
Hexachlorobutadiene	0.0500	0.05255		mg/L		105	70 - 130
Tetrachloroethene	0.0500	0.04992		mg/L		100	70 - 130
Trichloroethene	0.0500	0.05201		mg/L		104	70 - 130
Vinyl chloride	0.0500	0.05079		mg/L		102	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*

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

Lab Sample ID: LCSD 680-825656/6
Matrix: Solid
Analysis Batch: 825656

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-Dichloroethene			0.0500	0.04803		mg/L		96	70 - 130	1	20
1,2-Dichloroethane			0.0500	0.05115		mg/L		102	70 - 130	2	50
1,4-Dichlorobenzene			0.0500	0.05201		mg/L		104	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2551		mg/L		102	69 - 114	5	30
Benzene			0.0500	0.05002		mg/L		100	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04878		mg/L		98	70 - 130	0	30
Chlorobenzene			0.0500	0.05145		mg/L		103	70 - 130	0	30
Chloroform			0.0500	0.05181		mg/L		104	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.05316		mg/L		106	70 - 130	1	20
Tetrachloroethene			0.0500	0.04866		mg/L		97	70 - 130	3	30
Trichloroethene			0.0500	0.05136		mg/L		103	70 - 130	1	30
Vinyl chloride			0.0500	0.05161		mg/L		103	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*

Lab Sample ID: LB 680-825277/1-A
Matrix: Solid
Analysis Batch: 825549

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/03/24 14:54	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/03/24 14:54	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/03/24 14:54	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/03/24 14:54	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/03/24 14:54	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/03/24 14:54	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/03/24 14:54	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/03/24 14:54	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/03/24 14:54	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/03/24 14:54	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/03/24 14:54	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/03/24 14:54	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/03/24 14:54*	*20*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/03/24 14:54*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/03/24 14:54*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*03/03/24 14:54*	*20*

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

Lab Sample ID: 680-247285-1 MS
Matrix: Solid
Analysis Batch: 825549

Client Sample ID: H-03a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0146	J	1.00	0.9926		mg/L		98	70 - 130
1,2-Dichloroethane	<0.0100		1.00	1.021		mg/L		102	70 - 130
1,4-Dichlorobenzene	<0.00920		1.00	1.074		mg/L		107	70 - 130
2-Butanone (MEK)	<0.0680		5.00	4.005		mg/L		80	69 - 114
Benzene	<0.00860		1.00	1.063		mg/L		106	70 - 130
Carbon tetrachloride	<0.00660		1.00	1.089		mg/L		109	70 - 130
Chlorobenzene	<0.00520		1.00	1.092		mg/L		109	70 - 130
Chloroform	<0.0100		1.00	1.028		mg/L		103	70 - 130
Hexachlorobutadiene	<0.0500		1.00	1.087		mg/L		109	70 - 130
Tetrachloroethene	0.0156	J	1.00	1.056		mg/L		104	70 - 130
Vinyl chloride	<0.0100		1.00	0.9797		mg/L		98	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*

Lab Sample ID: 680-247285-1 MSD
Matrix: Solid
Analysis Batch: 825549

Client Sample ID: H-03a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0146	J	1.00	0.9904		mg/L		98	70 - 130	0	20
1,2-Dichloroethane	<0.0100		1.00	1.032		mg/L		103	70 - 130	1	50
1,4-Dichlorobenzene	<0.00920		1.00	1.096		mg/L		110	70 - 130	2	20
2-Butanone (MEK)	<0.0680		5.00	3.914		mg/L		78	69 - 114	2	20
Benzene	<0.00860		1.00	1.060		mg/L		106	70 - 130	0	20
Carbon tetrachloride	<0.00660		1.00	1.100		mg/L		110	70 - 130	1	20
Chlorobenzene	<0.00520		1.00	1.079		mg/L		108	70 - 130	1	20
Chloroform	<0.0100		1.00	1.034		mg/L		103	70 - 130	1	20
Hexachlorobutadiene	<0.0500		1.00	1.075		mg/L		108	70 - 130	1	20
Tetrachloroethene	0.0156	J	1.00	1.056		mg/L		104	70 - 130	0	20
Vinyl chloride	<0.0100		1.00	0.9507		mg/L		95	66 - 129	3	20

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

Lab Sample ID: 680-247285-1 MS
Matrix: Solid
Analysis Batch: 825656

Client Sample ID: H-03a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.0720		10.0	9.823		mg/L		98	70 - 130
1,2-Dichloroethane	<0.100		10.0	10.50		mg/L		105	70 - 130

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

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

Lab Sample ID: 680-247285-1 MS
Matrix: Solid
Analysis Batch: 825656

Client Sample ID: H-03a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0920		10.0	9.603		mg/L		96	70 - 130
2-Butanone (MEK)	<0.680		50.0	48.19		mg/L		96	69 - 114
Benzene	<0.0860		10.0	9.572		mg/L		96	70 - 130
Carbon tetrachloride	<0.0660		10.0	10.22		mg/L		102	70 - 130
Chlorobenzene	<0.0520		10.0	9.983		mg/L		100	70 - 130
Chloroform	<0.100		10.0	10.24		mg/L		102	70 - 130
Hexachlorobutadiene	<0.500		10.0	7.754		mg/L		78	70 - 130
Tetrachloroethene	<0.150		10.0	9.951		mg/L		100	70 - 130
Trichloroethene	19.4		10.0	31.34		mg/L		120	70 - 130
Vinyl chloride	<0.100		10.0	10.03		mg/L		100	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*

Lab Sample ID: 680-247285-1 MSD
Matrix: Solid
Analysis Batch: 825656

Client Sample ID: H-03a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	<0.0720		10.0	10.07		mg/L		101	70 - 130	2	20
1,2-Dichloroethane	<0.100		10.0	10.70		mg/L		107	70 - 130	2	50
1,4-Dichlorobenzene	<0.0920		10.0	9.913		mg/L		99	70 - 130	3	20
2-Butanone (MEK)	<0.680		50.0	54.13		mg/L		108	69 - 114	12	20
Benzene	<0.0860		10.0	10.01		mg/L		100	70 - 130	4	20
Carbon tetrachloride	<0.0660		10.0	10.50		mg/L		105	70 - 130	3	20
Chlorobenzene	<0.0520		10.0	10.39		mg/L		104	70 - 130	4	20
Chloroform	<0.100		10.0	10.52		mg/L		105	70 - 130	3	20
Hexachlorobutadiene	<0.500		10.0	8.363		mg/L		84	70 - 130	8	20
Tetrachloroethene	<0.150		10.0	10.15		mg/L		101	70 - 130	2	20
Trichloroethene	19.4		10.0	31.84		mg/L		125	70 - 130	2	20
Vinyl chloride	<0.100		10.0	11.39		mg/L		114	66 - 129	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*

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

Lab Sample ID: MB 680-825680/1-A
Matrix: Solid
Analysis Batch: 825701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/04/24 12:09	03/04/24 18:40	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/04/24 12:09	03/04/24 18:40	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/04/24 12:09	03/04/24 18:40	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/04/24 12:09	03/04/24 18:40	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/04/24 12:09	03/04/24 18:40	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/04/24 12:09	03/04/24 18:40	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/04/24 12:09	03/04/24 18:40	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/04/24 12:09	03/04/24 18:40	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/04/24 12:09	03/04/24 18:40	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/04/24 12:09	03/04/24 18:40	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/04/24 12:09	03/04/24 18:40	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/04/24 12:09	03/04/24 18:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*30 - 130*	*03/04/24 12:09*	*03/04/24 18:40*	*1*
2-Fluorobiphenyl (Surr)	*80*		*25 - 130*	*03/04/24 12:09*	*03/04/24 18:40*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 130*	*03/04/24 12:09*	*03/04/24 18:40*	*1*
Terphenyl-d14 (Surr)	*92*		*35 - 131*	*03/04/24 12:09*	*03/04/24 18:40*	*1*
Phenol-d5 (Surr)	*30*		*10 - 130*	*03/04/24 12:09*	*03/04/24 18:40*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/04/24 12:09*	*03/04/24 18:40*	*1*

Lab Sample ID: LCS 680-825680/2-A
Matrix: Solid
Analysis Batch: 825701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1279		mg/L		64	13 - 130
Pyridine	0.400	0.05345		mg/L		13	10 - 130
Hexachlorobenzene	0.200	0.1656		mg/L		83	30 - 130
2,4-Dinitrotoluene	0.200	0.1831		mg/L		92	37 - 130
Hexachloroethane	0.200	0.1279		mg/L		64	12 - 130
Hexachlorobutadiene	0.200	0.1332		mg/L		67	12 - 130
Pentachlorophenol	0.400	0.3069		mg/L		77	24 - 130
2,4,6-Trichlorophenol	0.200	0.1683		mg/L		84	28 - 130
2,4,5-Trichlorophenol	0.200	0.1652		mg/L		83	26 - 130
Nitrobenzene	0.200	0.1537		mg/L		77	32 - 130
2-Methylphenol	0.200	0.1312		mg/L		66	21 - 130
3 & 4 Methylphenol	0.200	0.1202		mg/L		60	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*81*		*30 - 130*
2-Fluorobiphenyl (Surr)	*73*		*25 - 130*
2-Fluorophenol (Surr)	*38*		*10 - 130*
Terphenyl-d14 (Surr)	*86*		*35 - 131*
Phenol-d5 (Surr)	*28*		*10 - 130*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*

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

Lab Sample ID: LB1 680-825275/1-D
Matrix: Solid
Analysis Batch: 825701

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 825680

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/04/24 19:31	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/04/24 12:09	03/04/24 19:31	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/04/24 12:09	03/04/24 19:31	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/04/24 12:09	03/04/24 19:31	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/04/24 19:31	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/04/24 12:09	03/04/24 19:31	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/04/24 12:09	03/04/24 19:31	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/04/24 12:09	03/04/24 19:31	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/04/24 12:09	03/04/24 19:31	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/04/24 12:09	03/04/24 19:31	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/04/24 12:09	03/04/24 19:31	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/04/24 12:09	03/04/24 19:31	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*30 - 130*	*03/04/24 12:09*	*03/04/24 19:31*	*1*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/04/24 12:09*	*03/04/24 19:31*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 130*	*03/04/24 12:09*	*03/04/24 19:31*	*1*
Terphenyl-d14 (Surr)	*73*		*35 - 131*	*03/04/24 12:09*	*03/04/24 19:31*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/04/24 12:09*	*03/04/24 19:31*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/04/24 12:09*	*03/04/24 19:31*	*1*

GC/MS VOA

Leach Batch: 825277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-1 - DL	H-03a	TCLP	Solid	1311	
680-247285-1	H-03a	TCLP	Solid	1311	
680-247285-2	H-03b	TCLP	Solid	1311	
680-247285-3	H-04a	TCLP	Solid	1311	
680-247285-4	H-04b	TCLP	Solid	1311	
680-247285-5	H-05a	TCLP	Solid	1311	
680-247285-6	H-05b	TCLP	Solid	1311	
680-247285-7	H-06a	TCLP	Solid	1311	
680-247285-8	H-06b	TCLP	Solid	1311	
LB 680-825277/1-A	Method Blank	TCLP	Solid	1311	
680-247285-1 MS	H-03a	TCLP	Solid	1311	
680-247285-1 MSD	H-03a	TCLP	Solid	1311	

Analysis Batch: 825528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-4	H-04b	TCLP	Solid	8260D	825277
680-247285-5	H-05a	TCLP	Solid	8260D	825277
680-247285-6	H-05b	TCLP	Solid	8260D	825277
680-247285-7	H-06a	TCLP	Solid	8260D	825277
680-247285-8	H-06b	TCLP	Solid	8260D	825277
MB 680-825528/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-825528/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-825528/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 825549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-1	H-03a	TCLP	Solid	8260D	825277
680-247285-2	H-03b	TCLP	Solid	8260D	825277
680-247285-3	H-04a	TCLP	Solid	8260D	825277
LB 680-825277/1-A	Method Blank	TCLP	Solid	8260D	825277
MB 680-825549/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-825549/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-825549/5	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247285-1 MS	H-03a	TCLP	Solid	8260D	825277
680-247285-1 MSD	H-03a	TCLP	Solid	8260D	825277

Analysis Batch: 825656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-1 - DL	H-03a	TCLP	Solid	8260D	825277
680-247285-2	H-03b	TCLP	Solid	8260D	825277
680-247285-3	H-04a	TCLP	Solid	8260D	825277
MB 680-825656/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-825656/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-825656/6	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247285-1 MS	H-03a	TCLP	Solid	8260D	825277
680-247285-1 MSD	H-03a	TCLP	Solid	8260D	825277

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

GC/MS Semi VOA

Leach Batch: 825275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-9	H-03	TCLP	Solid	1311	
680-247285-10	H-04	TCLP	Solid	1311	
680-247285-11	H-05	TCLP	Solid	1311	
680-247285-12	H-06	TCLP	Solid	1311	
LB1 680-825275/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 825680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-9	H-03	TCLP	Solid	3510C	825275
680-247285-10	H-04	TCLP	Solid	3510C	825275
680-247285-11	H-05	TCLP	Solid	3510C	825275
680-247285-12	H-06	TCLP	Solid	3510C	825275
LB1 680-825275/1-D	Method Blank	TCLP	Solid	3510C	825275
MB 680-825680/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-825680/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 825701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247285-9	H-03	TCLP	Solid	8270E	825680
680-247285-10	H-04	TCLP	Solid	8270E	825680
680-247285-11	H-05	TCLP	Solid	8270E	825680
680-247285-12	H-06	TCLP	Solid	8270E	825680
LB1 680-825275/1-D	Method Blank	TCLP	Solid	8270E	825680
MB 680-825680/1-A	Method Blank	Total/NA	Solid	8270E	825680
LCS 680-825680/2-A	Lab Control Sample	Total/NA	Solid	8270E	825680

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Client Sample ID: H-03a

Lab Sample ID: 680-247285-1

Date Collected: 02/26/24 16:00

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311	DL		25.08 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D	DL	200	5 mL	5 mL	825656	03/04/24 17:41	P1C	EET SAV
	Instrument ID: CMSAJ									
TCLP	Leach	1311			25.08 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825549	03/03/24 15:41	UI	EET SAV
	Instrument ID: CMSC									

Client Sample ID: H-03b

Lab Sample ID: 680-247285-2

Date Collected: 02/26/24 16:05

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.04 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		200	5 mL	5 mL	825656	03/04/24 18:03	P1C	EET SAV
	Instrument ID: CMSAJ									
TCLP	Leach	1311			25.04 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825549	03/03/24 16:05	UI	EET SAV
	Instrument ID: CMSC									

Client Sample ID: H-04a

Lab Sample ID: 680-247285-3

Date Collected: 02/26/24 16:10

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825656	03/04/24 18:24	P1C	EET SAV
	Instrument ID: CMSAJ									
TCLP	Leach	1311			25.02 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825549	03/03/24 16:28	UI	EET SAV
	Instrument ID: CMSC									

Client Sample ID: H-04b

Lab Sample ID: 680-247285-4

Date Collected: 02/26/24 16:15

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825528	03/03/24 15:03	P1C	EET SAV
	Instrument ID: CMSAA									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Client Sample ID: H-05a

Lab Sample ID: 680-247285-5

Date Collected: 02/26/24 16:20

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.04 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825528	03/03/24 15:26	P1C	EET SAV

Instrument ID: CMSAA

Client Sample ID: H-05b

Lab Sample ID: 680-247285-6

Date Collected: 02/26/24 16:25

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825528	03/03/24 15:48	P1C	EET SAV

Instrument ID: CMSAA

Client Sample ID: H-06a

Lab Sample ID: 680-247285-7

Date Collected: 02/26/24 16:30

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825528	03/03/24 16:10	P1C	EET SAV

Instrument ID: CMSAA

Client Sample ID: H-06b

Lab Sample ID: 680-247285-8

Date Collected: 02/26/24 16:35

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	825277	02/29/24 21:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	825528	03/03/24 16:33	P1C	EET SAV

Instrument ID: CMSAA

Client Sample ID: H-03

Lab Sample ID: 680-247285-9

Date Collected: 02/26/24 16:00

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.02 g	2000 mL	825275	02/29/24 21:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	825680	03/04/24 12:09	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825701	03/05/24 02:19	T1C	EET SAV

Instrument ID: CMSN

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Client Sample ID: H-04

Lab Sample ID: 680-247285-10

Date Collected: 02/26/24 16:10

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	825275	02/29/24 21:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	825680	03/04/24 12:09	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825701	03/05/24 02:45	T1C	EET SAV

Instrument ID: CMSN

Client Sample ID: H-05

Lab Sample ID: 680-247285-11

Date Collected: 02/26/24 16:20

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.07 g	2000 mL	825275	02/29/24 21:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	825680	03/04/24 12:09	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825701	03/05/24 03:10	T1C	EET SAV

Instrument ID: CMSN

Client Sample ID: H-06

Lab Sample ID: 680-247285-12

Date Collected: 02/26/24 16:30

Matrix: Solid

Date Received: 02/28/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.08 g	2000 mL	825275	02/29/24 21:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	825680	03/04/24 12:09	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825701	03/05/24 03:36	T1C	EET SAV

Instrument ID: CMSN

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: 680-247285-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247285-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.3
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 3 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:

Address: 2401 Brentwood Road Suite 107	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Raleigh	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: NC, 27604	Compliance Project: Δ Yes Δ No		
Phone: 919-436-2965(Tel)	PO #: 70237017		Other:
Email: ethan.dinwiddie@terracon.com	WO #: 70237017		
Project Name: Tarheel Army Missile Plant	Project #: 68030576		
Site:	SSOW#:		

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
H-03a	2/26	1600	G	S							X				
H-03b		1605	G	S							X				
H-04a		1610	G	S							X				
H-04b		1615	G	S							X				
H-05a		1620	G	S							X				
H-05b		1625	G	S							X				
H-06a		1630	G	S							X				
H-06b		1635	G	S							X				
H-03		1600	C	S								X			
H-04		1610	C	S								X			
H-05		1620	C	S								X			

680-247285 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
		1838				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/28-24 0950	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8/1.8

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.2
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): Standard			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
H-06	02/26	1630	C	S								X			
TB_20240226	02/26	—	G	W											ON HOLD

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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
	2/28/24 1938				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/29/24 0950	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.8/1.8

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247285-1

Login Number: 247285

List Source: Eurofins Savannah

List Number: 1

Creator: Stewart, Rendaisha

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 | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/8/2024 8:21:20 AM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247356-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
3/8/2024 8:21:20 AM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Sample Summary

Client: Terracon Consultants, Inc.
Job ID: 680-247356-1
Project/Site: Tarheel Army Missile Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247356-1	H-07a	Solid	02/27/24 18:15	02/29/24 10:11
680-247356-2	H-07b	Solid	02/27/24 18:20	02/29/24 10:11
680-247356-3	H-07	Solid	02/27/24 18:15	02/29/24 10:11
680-247356-4	H-08a	Solid	02/27/24 18:25	02/29/24 10:11
680-247356-5	H-08b	Solid	02/27/24 18:30	02/29/24 10:11
680-247356-6	H-08	Solid	02/27/24 18:25	02/29/24 10:11
680-247356-7	H-09a	Solid	02/27/24 18:35	02/29/24 10:11
680-247356-8	H-09b	Solid	02/27/24 18:40	02/29/24 10:11
680-247356-9	H-09	Solid	02/27/24 18:40	02/29/24 10:11

Job ID: 680-247356-1 Eurofins Savannah

Job Narrative
680-247356-1

Receipt
The samples were received on 2/29/2024 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

GC/MS VOA
Method 8260D - TCLP: The method blank for 680-826011 contained Chloroform above the reporting limit (RL). None of the samples associated with this method blank contained this target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D - TCLP: The laboratory blank for 680-826117 contained Chloroform and Trichloroethene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

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 - TCLP: The laboratory control sample (LCS) for preparation batch 680-826050 and analytical batch 680-825898 recovered outside control limits for the following analyte: Pyridine. Pyridine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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

Client Sample ID: H-07a

Lab Sample ID: 680-247356-1

Date Collected: 02/27/24 18:15

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/06/24 17:19	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/06/24 17:19	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/06/24 17:19	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/06/24 17:19	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/06/24 17:19	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/06/24 17:19	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/06/24 17:19	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/06/24 17:19	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/06/24 17:19	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/06/24 17:19	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/06/24 17:19	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/06/24 17:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/06/24 17:19*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*03/06/24 17:19*	*20*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/06/24 17:19*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*03/06/24 17:19*	*20*

Client Sample ID: H-07b

Lab Sample ID: 680-247356-2

Date Collected: 02/27/24 18:20

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/06/24 17:41	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/06/24 17:41	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/06/24 17:41	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/06/24 17:41	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/06/24 17:41	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/06/24 17:41	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/06/24 17:41	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/06/24 17:41	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/06/24 17:41	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/06/24 17:41	20
Trichloroethene	**0.0508**	**B**	0.0200	0.00960	mg/L			03/06/24 17:41	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/06/24 17:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/06/24 17:41*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*03/06/24 17:41*	*20*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/06/24 17:41*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*03/06/24 17:41*	*20*

Client Sample ID: H-07

Lab Sample ID: 680-247356-3

Date Collected: 02/27/24 18:15

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 19:45	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Client Sample ID: H-07

Lab Sample ID: 680-247356-3

Date Collected: 02/27/24 18:15
Date Received: 02/29/24 10:11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370	F1 *-	0.250	0.0370	mg/L		03/06/24 10:15	03/06/24 19:45	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/06/24 10:15	03/06/24 19:45	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/06/24 10:15	03/06/24 19:45	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 19:45	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/06/24 10:15	03/06/24 19:45	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/06/24 10:15	03/06/24 19:45	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/06/24 10:15	03/06/24 19:45	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 19:45	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 19:45	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/06/24 10:15	03/06/24 19:45	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/06/24 10:15	03/06/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*30 - 130*	*03/06/24 10:15*	*03/06/24 19:45*	*1*
2-Fluorobiphenyl (Surr)	*48*		*25 - 130*	*03/06/24 10:15*	*03/06/24 19:45*	*1*
2-Fluorophenol (Surr)	*26*		*10 - 130*	*03/06/24 10:15*	*03/06/24 19:45*	*1*
Terphenyl-d14 (Surr)	*60*		*35 - 131*	*03/06/24 10:15*	*03/06/24 19:45*	*1*
Phenol-d5 (Surr)	*17*		*10 - 130*	*03/06/24 10:15*	*03/06/24 19:45*	*1*
Nitrobenzene-d5 (Surr)	*45*		*30 - 130*	*03/06/24 10:15*	*03/06/24 19:45*	*1*

Client Sample ID: H-08a

Lab Sample ID: 680-247356-4

Date Collected: 02/27/24 18:25
Date Received: 02/29/24 10:11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/06/24 16:03	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:03	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/06/24 16:03	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/06/24 16:03	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/06/24 16:03	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/06/24 16:03	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/06/24 16:03	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:03	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/06/24 16:03	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/06/24 16:03	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/06/24 16:03	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/06/24 16:03*	*20*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*03/06/24 16:03*	*20*
Toluene-d8 (Surr)	*108*		*70 - 130*		*03/06/24 16:03*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*03/06/24 16:03*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Client Sample ID: H-08b

Lab Sample ID: 680-247356-5

Date Collected: 02/27/24 18:30

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/06/24 16:24	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:24	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/06/24 16:24	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/06/24 16:24	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/06/24 16:24	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/06/24 16:24	20
Chlorobenzene	**0.00611**	**J**	0.0200	0.00520	mg/L			03/06/24 16:24	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:24	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/06/24 16:24	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/06/24 16:24	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/06/24 16:24	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/06/24 16:24*	*20*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*03/06/24 16:24*	*20*
Toluene-d8 (Surr)	*107*		*70 - 130*		*03/06/24 16:24*	*20*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*03/06/24 16:24*	*20*

Client Sample ID: H-08

Lab Sample ID: 680-247356-6

Date Collected: 02/27/24 18:25

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 20:12	1
Pyridine	<0.0370	*-	0.250	0.0370	mg/L		03/06/24 10:15	03/06/24 20:12	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/06/24 10:15	03/06/24 20:12	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/06/24 10:15	03/06/24 20:12	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 20:12	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/06/24 10:15	03/06/24 20:12	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/06/24 10:15	03/06/24 20:12	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/06/24 10:15	03/06/24 20:12	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 20:12	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 20:12	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/06/24 10:15	03/06/24 20:12	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/06/24 10:15	03/06/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*30 - 130*	*03/06/24 10:15*	*03/06/24 20:12*	*1*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*	*03/06/24 10:15*	*03/06/24 20:12*	*1*
2-Fluorophenol (Surr)	*32*		*10 - 130*	*03/06/24 10:15*	*03/06/24 20:12*	*1*
Terphenyl-d14 (Surr)	*74*		*35 - 131*	*03/06/24 10:15*	*03/06/24 20:12*	*1*
Phenol-d5 (Surr)	*21*		*10 - 130*	*03/06/24 10:15*	*03/06/24 20:12*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/06/24 10:15*	*03/06/24 20:12*	*1*

Client Sample ID: H-09a

Lab Sample ID: 680-247356-7

Date Collected: 02/27/24 18:35

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/06/24 20:24	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/06/24 20:24	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/06/24 20:24	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/06/24 20:24	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/06/24 20:24	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/06/24 20:24	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/06/24 20:24	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/06/24 20:24	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/06/24 20:24	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/06/24 20:24	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/06/24 20:24	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/06/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/06/24 20:24*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*03/06/24 20:24*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*03/06/24 20:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*03/06/24 20:24*	*1*

Client Sample ID: H-09b

Lab Sample ID: 680-247356-8

Date Collected: 02/27/24 18:40

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/06/24 20:45	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/06/24 20:45	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/06/24 20:45	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/06/24 20:45	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/06/24 20:45	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/06/24 20:45	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/06/24 20:45	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/06/24 20:45	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/06/24 20:45	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/06/24 20:45	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/06/24 20:45	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/06/24 20:45	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/06/24 20:45*	*20*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*03/06/24 20:45*	*20*
Toluene-d8 (Surr)	*107*		*70 - 130*		*03/06/24 20:45*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*03/06/24 20:45*	*20*

Client Sample ID: H-09

Lab Sample ID: 680-247356-9

Date Collected: 02/27/24 18:40

Matrix: Solid

Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 20:37	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Client Sample ID: H-09
Date Collected: 02/27/24 18:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247356-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370	*-	0.250	0.0370	mg/L		03/06/24 10:15	03/06/24 20:37	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/06/24 10:15	03/06/24 20:37	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/06/24 10:15	03/06/24 20:37	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 20:37	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/06/24 10:15	03/06/24 20:37	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/06/24 10:15	03/06/24 20:37	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/06/24 10:15	03/06/24 20:37	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 20:37	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 20:37	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/06/24 10:15	03/06/24 20:37	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/06/24 10:15	03/06/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*30 - 130*	*03/06/24 10:15*	*03/06/24 20:37*	*1*
2-Fluorobiphenyl (Surr)	*72*		*25 - 130*	*03/06/24 10:15*	*03/06/24 20:37*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/06/24 10:15*	*03/06/24 20:37*	*1*
Terphenyl-d14 (Surr)	*76*		*35 - 131*	*03/06/24 10:15*	*03/06/24 20:37*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/06/24 10:15*	*03/06/24 20:37*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/06/24 10:15*	*03/06/24 20:37*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

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

Lab Sample ID: MB 680-826011/9
Matrix: Solid
Analysis Batch: 826011

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/06/24 13:29	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/06/24 13:29	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/06/24 13:29	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/06/24 13:29	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/06/24 13:29	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/06/24 13:29	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/06/24 13:29	1
Chloroform	0.004929		0.00100	0.000500	mg/L			03/06/24 13:29	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/06/24 13:29	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/06/24 13:29	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/06/24 13:29	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/06/24 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/06/24 13:29*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*03/06/24 13:29*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/06/24 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*03/06/24 13:29*	*1*

Lab Sample ID: LCS 680-826011/4
Matrix: Solid
Analysis Batch: 826011

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04717		mg/L		94	70 - 130
1,2-Dichloroethane	0.0500	0.05366		mg/L		107	70 - 130
1,4-Dichlorobenzene	0.0500	0.04964		mg/L		99	70 - 130
2-Butanone (MEK)	0.250	0.2629		mg/L		105	69 - 114
Benzene	0.0500	0.05070		mg/L		101	70 - 130
Carbon tetrachloride	0.0500	0.04846		mg/L		97	70 - 130
Chlorobenzene	0.0500	0.05056		mg/L		101	70 - 130
Chloroform	0.0500	0.05343		mg/L		107	70 - 130
Hexachlorobutadiene	0.0500	0.05048		mg/L		101	70 - 130
Tetrachloroethene	0.0500	0.04989		mg/L		100	70 - 130
Trichloroethene	0.0500	0.05228		mg/L		105	70 - 130
Vinyl chloride	0.0500	0.04889		mg/L		98	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*

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

Lab Sample ID: LCSD 680-826011/5
Matrix: Solid
Analysis Batch: 826011

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-Dichloroethene			0.0500	0.04795		mg/L		96	70 - 130	2	20
1,2-Dichloroethane			0.0500	0.05539		mg/L		111	70 - 130	3	50
1,4-Dichlorobenzene			0.0500	0.05078		mg/L		102	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2776		mg/L		111	69 - 114	5	30
Benzene			0.0500	0.05103		mg/L		102	70 - 130	1	30
Carbon tetrachloride			0.0500	0.05041		mg/L		101	70 - 130	4	30
Chlorobenzene			0.0500	0.05052		mg/L		101	70 - 130	0	30
Chloroform			0.0500	0.05507		mg/L		110	70 - 130	3	30
Hexachlorobutadiene			0.0500	0.05069		mg/L		101	70 - 130	0	20
Tetrachloroethene			0.0500	0.05114		mg/L		102	70 - 130	2	30
Trichloroethene			0.0500	0.05325		mg/L		106	70 - 130	2	30
Vinyl chloride			0.0500	0.04925		mg/L		99	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*

Lab Sample ID: MB 680-826117/8
Matrix: Solid
Analysis Batch: 826117

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/06/24 16:34	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/06/24 16:34	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/06/24 16:34	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/06/24 16:34	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/06/24 16:34	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/06/24 16:34	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/06/24 16:34	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/06/24 16:34	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/06/24 16:34	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/06/24 16:34	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/06/24 16:34	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/06/24 16:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/06/24 16:34*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*03/06/24 16:34*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/06/24 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*03/06/24 16:34*	*1*

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

Lab Sample ID: LCS 680-826117/3
Matrix: Solid
Analysis Batch: 826117

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.04459		mg/L		89	70 - 130		
1,2-Dichloroethane			0.0500	0.04934		mg/L		99	70 - 130		
1,4-Dichlorobenzene			0.0500	0.04931		mg/L		99	70 - 130		
2-Butanone (MEK)			0.250	0.2721		mg/L		109	69 - 114		
Benzene			0.0500	0.04855		mg/L		97	70 - 130		
Carbon tetrachloride			0.0500	0.04488		mg/L		90	70 - 130		
Chlorobenzene			0.0500	0.04850		mg/L		97	70 - 130		
Chloroform			0.0500	0.04923		mg/L		98	70 - 130		
Hexachlorobutadiene			0.0500	0.04943		mg/L		99	70 - 130		
Tetrachloroethene			0.0500	0.05263		mg/L		105	70 - 130		
Trichloroethene			0.0500	0.05161		mg/L		103	70 - 130		
Vinyl chloride			0.0500	0.04411		mg/L		88	66 - 129		

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

Lab Sample ID: LCSD 680-826117/4
Matrix: Solid
Analysis Batch: 826117

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-Dichloroethene			0.0500	0.04496		mg/L		90	70 - 130	1	20
1,2-Dichloroethane			0.0500	0.04848		mg/L		97	70 - 130	2	50
1,4-Dichlorobenzene			0.0500	0.04888		mg/L		98	70 - 130	1	30
2-Butanone (MEK)			0.250	0.2702		mg/L		108	69 - 114	1	30
Benzene			0.0500	0.04888		mg/L		98	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04559		mg/L		91	70 - 130	2	30
Chlorobenzene			0.0500	0.04912		mg/L		98	70 - 130	1	30
Chloroform			0.0500	0.04900		mg/L		98	70 - 130	0	30
Hexachlorobutadiene			0.0500	0.04861		mg/L		97	70 - 130	2	20
Tetrachloroethene			0.0500	0.05279		mg/L		106	70 - 130	0	30
Trichloroethene			0.0500	0.05149		mg/L		103	70 - 130	0	30
Vinyl chloride			0.0500	0.04453		mg/L		89	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*

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

Lab Sample ID: 680-247356-8 MS
Matrix: Solid
Analysis Batch: 826011

Client Sample ID: H-09b
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.00720		1.00	0.9889		mg/L		99	70 - 130
1,2-Dichloroethane	<0.0100		1.00	1.102		mg/L		110	70 - 130
1,4-Dichlorobenzene	<0.00920		1.00	1.004		mg/L		100	70 - 130
2-Butanone (MEK)	<0.0680		5.00	5.306		mg/L		106	69 - 114
Benzene	<0.00860		1.00	1.026		mg/L		103	70 - 130
Carbon tetrachloride	<0.00660		1.00	1.097		mg/L		110	70 - 130
Chlorobenzene	<0.00520		1.00	1.002		mg/L		100	70 - 130
Chloroform	<0.0100		1.00	1.120		mg/L		112	70 - 130
Hexachlorobutadiene	<0.0500		1.00	0.8329		mg/L		83	70 - 130
Tetrachloroethene	<0.0150		1.00	1.046		mg/L		105	70 - 130
Trichloroethene	<0.00960		1.00	1.076		mg/L		108	70 - 130
Vinyl chloride	<0.0100		1.00	1.003		mg/L		100	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*

Lab Sample ID: 680-247356-8 MSD
Matrix: Solid
Analysis Batch: 826011

Client Sample ID: H-09b
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	<0.00720		1.00	0.9740		mg/L		97	70 - 130	2	20
1,2-Dichloroethane	<0.0100		1.00	1.135		mg/L		113	70 - 130	3	50
1,4-Dichlorobenzene	<0.00920		1.00	1.004		mg/L		100	70 - 130	0	20
2-Butanone (MEK)	<0.0680		5.00	5.714		mg/L		114	69 - 114	7	20
Benzene	<0.00860		1.00	1.039		mg/L		104	70 - 130	1	20
Carbon tetrachloride	<0.00660		1.00	1.104		mg/L		110	70 - 130	1	20
Chlorobenzene	<0.00520		1.00	1.044		mg/L		104	70 - 130	4	20
Chloroform	<0.0100		1.00	1.102		mg/L		110	70 - 130	2	20
Hexachlorobutadiene	<0.0500		1.00	0.8447		mg/L		84	70 - 130	1	20
Tetrachloroethene	<0.0150		1.00	1.059		mg/L		106	70 - 130	1	20
Trichloroethene	<0.00960		1.00	1.101		mg/L		110	70 - 130	2	20
Vinyl chloride	<0.0100		1.00	1.009		mg/L		101	66 - 129	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*

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

Lab Sample ID: LB 680-825715/1-A
Matrix: Solid
Analysis Batch: 826117

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/06/24 16:56	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:56	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/06/24 16:56	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/06/24 16:56	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/06/24 16:56	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/06/24 16:56	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/06/24 16:56	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:56	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/06/24 16:56	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/06/24 16:56	20
Trichloroethene	0.009701	J	0.0200	0.00960	mg/L			03/06/24 16:56	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/06/24 16:56	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/06/24 16:56*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*03/06/24 16:56*	*20*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/06/24 16:56*	*20*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*03/06/24 16:56*	*20*

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

Lab Sample ID: MB 680-826050/1-A
Matrix: Solid
Analysis Batch: 825898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/06/24 10:15	03/06/24 17:38	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/06/24 10:15	03/06/24 17:38	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/06/24 10:15	03/06/24 17:38	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/06/24 10:15	03/06/24 17:38	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/06/24 10:15	03/06/24 17:38	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/06/24 10:15	03/06/24 17:38	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/06/24 10:15	03/06/24 17:38	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/06/24 10:15	03/06/24 17:38	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/06/24 10:15	03/06/24 17:38	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/06/24 10:15	03/06/24 17:38	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/06/24 10:15	03/06/24 17:38	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/06/24 10:15	03/06/24 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*30 - 130*	*03/06/24 10:15*	*03/06/24 17:38*	*1*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*	*03/06/24 10:15*	*03/06/24 17:38*	*1*
2-Fluorophenol (Surr)	*33*		*10 - 130*	*03/06/24 10:15*	*03/06/24 17:38*	*1*
Terphenyl-d14 (Surr)	*79*		*35 - 131*	*03/06/24 10:15*	*03/06/24 17:38*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*03/06/24 10:15*	*03/06/24 17:38*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/06/24 10:15*	*03/06/24 17:38*	*1*

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

Lab Sample ID: LCS 680-826050/2-A
Matrix: Solid
Analysis Batch: 825898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.08930		mg/L		45	13 - 130
Pyridine	0.400	0.01949	J *-	mg/L		5	10 - 130
Hexachlorobenzene	0.200	0.1380		mg/L		69	30 - 130
2,4-Dinitrotoluene	0.200	0.1637		mg/L		82	37 - 130
Hexachloroethane	0.200	0.08670		mg/L		43	12 - 130
Hexachlorobutadiene	0.200	0.09627		mg/L		48	12 - 130
Pentachlorophenol	0.400	0.2965		mg/L		74	24 - 130
2,4,6-Trichlorophenol	0.200	0.1304		mg/L		65	28 - 130
2,4,5-Trichlorophenol	0.200	0.1310		mg/L		66	26 - 130
Nitrobenzene	0.200	0.1042		mg/L		52	32 - 130
2-Methylphenol	0.200	0.08005		mg/L		40	21 - 130
3 & 4 Methylphenol	0.200	0.08076		mg/L		40	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*30 - 130*
2-Fluorobiphenyl (Surr)	*50*		*25 - 130*
2-Fluorophenol (Surr)	*28*		*10 - 130*
Terphenyl-d14 (Surr)	*70*		*35 - 131*
Phenol-d5 (Surr)	*19*		*10 - 130*
Nitrobenzene-d5 (Surr)	*48*		*30 - 130*

Lab Sample ID: LB1 680-825714/1-E
Matrix: Solid
Analysis Batch: 825898

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 826050

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 18:03	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/06/24 10:15	03/06/24 18:03	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/06/24 10:15	03/06/24 18:03	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/06/24 10:15	03/06/24 18:03	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 18:03	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/06/24 10:15	03/06/24 18:03	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/06/24 10:15	03/06/24 18:03	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/06/24 10:15	03/06/24 18:03	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/06/24 10:15	03/06/24 18:03	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/06/24 10:15	03/06/24 18:03	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/06/24 10:15	03/06/24 18:03	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/06/24 10:15	03/06/24 18:03	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 130*	*03/06/24 10:15*	*03/06/24 18:03*	*1*
2-Fluorobiphenyl (Surr)	*62*		*25 - 130*	*03/06/24 10:15*	*03/06/24 18:03*	*1*
2-Fluorophenol (Surr)	*34*		*10 - 130*	*03/06/24 10:15*	*03/06/24 18:03*	*1*
Terphenyl-d14 (Surr)	*72*		*35 - 131*	*03/06/24 10:15*	*03/06/24 18:03*	*1*
Phenol-d5 (Surr)	*23*		*10 - 130*	*03/06/24 10:15*	*03/06/24 18:03*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/06/24 10:15*	*03/06/24 18:03*	*1*

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

Lab Sample ID: 680-247356-3 MS
Matrix: Solid
Analysis Batch: 825898

Client Sample ID: H-07
Prep Type: TCLP
Prep Batch: 826050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.5644		mg/L		56	13 - 130
Pyridine	<0.0370	F1 *-	2.00	0.1060	J F1	mg/L		5	10 - 130
Hexachlorobenzene	<0.00800		1.00	0.7869		mg/L		79	30 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.9464		mg/L		95	37 - 130
Hexachloroethane	<0.0180		1.00	0.5751		mg/L		58	12 - 130
Hexachlorobutadiene	<0.0200		1.00	0.6284		mg/L		63	12 - 130
Pentachlorophenol	<0.0500		2.00	1.738		mg/L		87	24 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.8003		mg/L		80	28 - 130
2,4,5-Trichlorophenol	<0.0160		1.00	0.8064		mg/L		81	26 - 130
Nitrobenzene	<0.0180		1.00	0.6587		mg/L		66	32 - 130
2-Methylphenol	<0.00900		1.00	0.5111		mg/L		51	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.4838		mg/L		48	19 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*30 - 130*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*
2-Fluorophenol (Surr)	*35*		*10 - 130*
Terphenyl-d14 (Surr)	*79*		*35 - 131*
Phenol-d5 (Surr)	*24*		*10 - 130*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*

Lab Sample ID: 680-247356-3 MSD
Matrix: Solid
Analysis Batch: 825898

Client Sample ID: H-07
Prep Type: TCLP
Prep Batch: 826050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.6161		mg/L		62	13 - 130	9	50
Pyridine	<0.0370	F1 *-	2.00	0.1234	J F1	mg/L		6	10 - 130	15	50
Hexachlorobenzene	<0.00800		1.00	0.8033		mg/L		80	30 - 130	2	50
2,4-Dinitrotoluene	<0.0120		1.00	0.9575		mg/L		96	37 - 130	1	50
Hexachloroethane	<0.0180		1.00	0.6208		mg/L		62	12 - 130	8	50
Hexachlorobutadiene	<0.0200		1.00	0.6917		mg/L		69	12 - 130	10	50
Pentachlorophenol	<0.0500		2.00	1.692		mg/L		85	24 - 130	3	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.8330		mg/L		83	28 - 130	4	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.8278		mg/L		83	26 - 130	3	50
Nitrobenzene	<0.0180		1.00	0.7070		mg/L		71	32 - 130	7	50
2-Methylphenol	<0.00900		1.00	0.5694		mg/L		57	21 - 130	11	50
3 & 4 Methylphenol	<0.00700		1.00	0.5393		mg/L		54	19 - 130	11	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*30 - 130*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*
2-Fluorophenol (Surr)	*39*		*10 - 130*
Terphenyl-d14 (Surr)	*77*		*35 - 131*
Phenol-d5 (Surr)	*27*		*10 - 130*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

GC/MS VOA

Leach Batch: 825715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-1	H-07a	TCLP	Solid	1311	
680-247356-2	H-07b	TCLP	Solid	1311	
680-247356-4	H-08a	TCLP	Solid	1311	
680-247356-5	H-08b	TCLP	Solid	1311	
680-247356-7	H-09a	TCLP	Solid	1311	
680-247356-8	H-09b	TCLP	Solid	1311	
LB 680-825715/1-A	Method Blank	TCLP	Solid	1311	
680-247356-8 MS	H-09b	TCLP	Solid	1311	
680-247356-8 MSD	H-09b	TCLP	Solid	1311	

Analysis Batch: 826011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-4	H-08a	TCLP	Solid	8260D	825715
680-247356-5	H-08b	TCLP	Solid	8260D	825715
680-247356-7	H-09a	TCLP	Solid	8260D	825715
680-247356-8	H-09b	TCLP	Solid	8260D	825715
MB 680-826011/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-826011/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826011/5	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247356-8 MS	H-09b	TCLP	Solid	8260D	825715
680-247356-8 MSD	H-09b	TCLP	Solid	8260D	825715

Analysis Batch: 826117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-1	H-07a	TCLP	Solid	8260D	825715
680-247356-2	H-07b	TCLP	Solid	8260D	825715
LB 680-825715/1-A	Method Blank	TCLP	Solid	8260D	825715
MB 680-826117/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-826117/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826117/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 825714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-3	H-07	TCLP	Solid	1311	
680-247356-6	H-08	TCLP	Solid	1311	
680-247356-9	H-09	TCLP	Solid	1311	
LB1 680-825714/1-E	Method Blank	TCLP	Solid	1311	
680-247356-3 MS	H-07	TCLP	Solid	1311	
680-247356-3 MSD	H-07	TCLP	Solid	1311	

Analysis Batch: 825898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-3	H-07	TCLP	Solid	8270E	826050
680-247356-6	H-08	TCLP	Solid	8270E	826050
680-247356-9	H-09	TCLP	Solid	8270E	826050
LB1 680-825714/1-E	Method Blank	TCLP	Solid	8270E	826050
MB 680-826050/1-A	Method Blank	Total/NA	Solid	8270E	826050
LCS 680-826050/2-A	Lab Control Sample	Total/NA	Solid	8270E	826050
680-247356-3 MS	H-07	TCLP	Solid	8270E	826050

GC/MS Semi VOA (Continued)

Analysis Batch: 825898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-3 MSD	H-07	TCLP	Solid	8270E	826050

Prep Batch: 826050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247356-3	H-07	TCLP	Solid	3510C	825714
680-247356-6	H-08	TCLP	Solid	3510C	825714
680-247356-9	H-09	TCLP	Solid	3510C	825714
LB1 680-825714/1-E	Method Blank	TCLP	Solid	3510C	825714
MB 680-826050/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-826050/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-247356-3 MS	H-07	TCLP	Solid	3510C	825714
680-247356-3 MSD	H-07	TCLP	Solid	3510C	825714

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Client Sample ID: H-07a

Lab Sample ID: 680-247356-1
Matrix: Solid
Date Collected: 02/27/24 18:15
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	825715	03/04/24 17:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826117	03/06/24 17:19	NTA	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: H-07b

Lab Sample ID: 680-247356-2
Matrix: Solid
Date Collected: 02/27/24 18:20
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.08 g	500 mL	825715	03/04/24 17:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826117	03/06/24 17:41	NTA	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: H-07

Lab Sample ID: 680-247356-3
Matrix: Solid
Date Collected: 02/27/24 18:15
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.02 g	2000 mL	825714	03/04/24 17:30	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	826050	03/06/24 10:15	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825898	03/06/24 19:45	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: H-08a

Lab Sample ID: 680-247356-4
Matrix: Solid
Date Collected: 02/27/24 18:25
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	825715	03/04/24 17:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826011	03/06/24 16:03	P1C	EET SAV
	Instrument ID: CMSAJ									

Client Sample ID: H-08b

Lab Sample ID: 680-247356-5
Matrix: Solid
Date Collected: 02/27/24 18:30
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.07 g	500 mL	825715	03/04/24 17:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826011	03/06/24 16:24	P1C	EET SAV
	Instrument ID: CMSAJ									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Client Sample ID: H-08

Lab Sample ID: 680-247356-6

Date Collected: 02/27/24 18:25
Matrix: Solid
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.01 g	2000 mL	825714	03/04/24 17:30	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	826050	03/06/24 10:15	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825898	03/06/24 20:12	T1C	EET SAV

Instrument ID: CMST

Client Sample ID: H-09a

Lab Sample ID: 680-247356-7

Date Collected: 02/27/24 18:35
Matrix: Solid
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.04 g	500 mL	825715	03/04/24 17:30	JJ	EET SAV
TCLP	Analysis	8260D		1	5 mL	5 mL	826011	03/06/24 20:24	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: H-09b

Lab Sample ID: 680-247356-8

Date Collected: 02/27/24 18:40
Matrix: Solid
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.07 g	500 mL	825715	03/04/24 17:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826011	03/06/24 20:45	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: H-09

Lab Sample ID: 680-247356-9

Date Collected: 02/27/24 18:40
Matrix: Solid
Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.02 g	2000 mL	825714	03/04/24 17:30	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	826050	03/06/24 10:15	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	825898	03/06/24 20:37	T1C	EET SAV

Instrument ID: CMST

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: 680-247356-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247356-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.7
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 7 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): Standard			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
Preservation Code:							F	N	N	N	N	N	A		
H-07a	02/27	1815	G	S							X				
H-07b		1820	G	S							X				
H-07		1815	C	S								X			
H-08a		1825	G	S							X				
H-08b		1830	G	S							X				
H-08		1825	C	S								X			
H-09a		1835	G	S							X				
H-09b		1840	G	S							X				
H-09	↓	1540	C	S								X			

680-247356 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
1		02/28/1900				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: C. Munn	Date/Time: 2/29/24 1011	Company: Eurofins

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.8|1.8

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247356-1

Login Number: 247356

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/11/2024 5:23:20 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247524-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
3/11/2024 5:23:20 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247524-1	NH-11a	Solid	03/04/24 16:20	03/05/24 10:26
680-247524-2	NH-11b	Solid	03/04/24 16:25	03/05/24 10:26
680-247524-3	NH-11	Solid	03/04/24 16:20	03/05/24 10:26
680-247524-4	NH-12a	Solid	03/04/24 16:30	03/05/24 10:26
680-247524-5	NH-12b	Solid	03/04/24 06:35	03/05/24 10:26
680-247524-6	NH-12	Solid	03/04/24 16:30	03/05/24 10:26
680-247524-7	NH-13a	Solid	03/04/24 16:40	03/05/24 10:26
680-247524-8	NH-13b	Solid	03/04/24 16:45	03/05/24 10:26
680-247524-9	NH-13	Solid	03/04/24 16:40	03/05/24 10:26

Job Narrative
680-247524-1

Receipt
The samples were received on 3/5/2024 10:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

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

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

Client Sample ID: NH-11a

Lab Sample ID: 680-247524-1

Date Collected: 03/04/24 16:20

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/09/24 18:23	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/09/24 18:23	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/09/24 18:23	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/09/24 18:23	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/09/24 18:23	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/09/24 18:23	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/09/24 18:23	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/09/24 18:23	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/09/24 18:23	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/09/24 18:23	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/09/24 18:23	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/09/24 18:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/09/24 18:23*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/09/24 18:23*	*20*
Toluene-d8 (Surr)	*112*		*70 - 130*		*03/09/24 18:23*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*03/09/24 18:23*	*20*

Client Sample ID: NH-11b

Lab Sample ID: 680-247524-2

Date Collected: 03/04/24 16:25

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/09/24 18:44	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/09/24 18:44	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/09/24 18:44	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/09/24 18:44	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/09/24 18:44	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/09/24 18:44	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/09/24 18:44	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/09/24 18:44	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/09/24 18:44	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/09/24 18:44	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/09/24 18:44	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/09/24 18:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/09/24 18:44*	*20*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*03/09/24 18:44*	*20*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/09/24 18:44*	*20*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*03/09/24 18:44*	*20*

Client Sample ID: NH-11

Lab Sample ID: 680-247524-3

Date Collected: 03/04/24 16:20

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 19:35	1

Client Sample ID: NH-11

Lab Sample ID: 680-247524-3

Date Collected: 03/04/24 16:20

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		03/08/24 17:25	03/09/24 19:35	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/08/24 17:25	03/09/24 19:35	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/08/24 17:25	03/09/24 19:35	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 19:35	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/08/24 17:25	03/09/24 19:35	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/08/24 17:25	03/09/24 19:35	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/08/24 17:25	03/09/24 19:35	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 19:35	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 19:35	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/08/24 17:25	03/09/24 19:35	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/08/24 17:25	03/09/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*30 - 130*	*03/08/24 17:25*	*03/09/24 19:35*	*1*
2-Fluorobiphenyl (Surr)	*78*		*25 - 130*	*03/08/24 17:25*	*03/09/24 19:35*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 130*	*03/08/24 17:25*	*03/09/24 19:35*	*1*
Terphenyl-d14 (Surr)	*90*		*35 - 131*	*03/08/24 17:25*	*03/09/24 19:35*	*1*
Phenol-d5 (Surr)	*29*		*10 - 130*	*03/08/24 17:25*	*03/09/24 19:35*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/08/24 17:25*	*03/09/24 19:35*	*1*

Client Sample ID: NH-12a

Lab Sample ID: 680-247524-4

Date Collected: 03/04/24 16:30

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/09/24 19:05	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:05	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/09/24 19:05	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/09/24 19:05	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/09/24 19:05	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/09/24 19:05	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/09/24 19:05	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:05	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/09/24 19:05	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/09/24 19:05	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/09/24 19:05	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/09/24 19:05*	*20*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*03/09/24 19:05*	*20*
Toluene-d8 (Surr)	*108*		*70 - 130*		*03/09/24 19:05*	*20*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*03/09/24 19:05*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

Client Sample ID: NH-12b

Lab Sample ID: 680-247524-5

Date Collected: 03/04/24 06:35
Date Received: 03/05/24 10:26

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/09/24 19:26	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:26	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/09/24 19:26	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/09/24 19:26	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/09/24 19:26	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/09/24 19:26	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/09/24 19:26	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:26	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/09/24 19:26	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/09/24 19:26	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/09/24 19:26	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/09/24 19:26*	*20*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*03/09/24 19:26*	*20*
Toluene-d8 (Surr)	*109*		*70 - 130*		*03/09/24 19:26*	*20*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*03/09/24 19:26*	*20*

Client Sample ID: NH-12

Lab Sample ID: 680-247524-6

Date Collected: 03/04/24 16:30
Date Received: 03/05/24 10:26

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 20:01	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/08/24 17:25	03/09/24 20:01	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/08/24 17:25	03/09/24 20:01	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/08/24 17:25	03/09/24 20:01	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 20:01	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/08/24 17:25	03/09/24 20:01	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/08/24 17:25	03/09/24 20:01	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/08/24 17:25	03/09/24 20:01	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 20:01	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 20:01	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/08/24 17:25	03/09/24 20:01	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/08/24 17:25	03/09/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*30 - 130*	*03/08/24 17:25*	*03/09/24 20:01*	*1*
2-Fluorobiphenyl (Surr)	*71*		*25 - 130*	*03/08/24 17:25*	*03/09/24 20:01*	*1*
2-Fluorophenol (Surr)	*40*		*10 - 130*	*03/08/24 17:25*	*03/09/24 20:01*	*1*
Terphenyl-d14 (Surr)	*87*		*35 - 131*	*03/08/24 17:25*	*03/09/24 20:01*	*1*
Phenol-d5 (Surr)	*27*		*10 - 130*	*03/08/24 17:25*	*03/09/24 20:01*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*03/08/24 17:25*	*03/09/24 20:01*	*1*

Client Sample ID: NH-13a

Lab Sample ID: 680-247524-7

Date Collected: 03/04/24 16:40

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/09/24 19:47	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:47	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/09/24 19:47	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/09/24 19:47	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/09/24 19:47	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/09/24 19:47	20
Chlorobenzene	**0.0258**		0.0200	0.00520	mg/L			03/09/24 19:47	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:47	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/09/24 19:47	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/09/24 19:47	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/09/24 19:47	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/09/24 19:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/09/24 19:47*	*20*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*03/09/24 19:47*	*20*
Toluene-d8 (Surr)	*111*		*70 - 130*		*03/09/24 19:47*	*20*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*03/09/24 19:47*	*20*

Client Sample ID: NH-13b

Lab Sample ID: 680-247524-8

Date Collected: 03/04/24 16:45

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/09/24 20:08	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/09/24 20:08	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/09/24 20:08	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/09/24 20:08	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/09/24 20:08	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/09/24 20:08	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/09/24 20:08	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/09/24 20:08	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/09/24 20:08	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/09/24 20:08	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/09/24 20:08	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/09/24 20:08	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/09/24 20:08*	*20*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*03/09/24 20:08*	*20*
Toluene-d8 (Surr)	*112*		*70 - 130*		*03/09/24 20:08*	*20*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*03/09/24 20:08*	*20*

Client Sample ID: NH-13

Lab Sample ID: 680-247524-9

Date Collected: 03/04/24 16:40

Matrix: Solid

Date Received: 03/05/24 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 20:27	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

Client Sample ID: NH-13
Date Collected: 03/04/24 16:40
Date Received: 03/05/24 10:26

Lab Sample ID: 680-247524-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		03/08/24 17:25	03/09/24 20:27	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/08/24 17:25	03/09/24 20:27	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/08/24 17:25	03/09/24 20:27	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 20:27	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/08/24 17:25	03/09/24 20:27	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/08/24 17:25	03/09/24 20:27	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/08/24 17:25	03/09/24 20:27	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 20:27	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 20:27	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/08/24 17:25	03/09/24 20:27	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/08/24 17:25	03/09/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 130*	*03/08/24 17:25*	*03/09/24 20:27*	*1*
2-Fluorobiphenyl (Surr)	*78*		*25 - 130*	*03/08/24 17:25*	*03/09/24 20:27*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 130*	*03/08/24 17:25*	*03/09/24 20:27*	*1*
Terphenyl-d14 (Surr)	*94*		*35 - 131*	*03/08/24 17:25*	*03/09/24 20:27*	*1*
Phenol-d5 (Surr)	*29*		*10 - 130*	*03/08/24 17:25*	*03/09/24 20:27*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/08/24 17:25*	*03/09/24 20:27*	*1*

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

Lab Sample ID: MB 680-826692/10
Matrix: Solid
Analysis Batch: 826692

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/09/24 17:50	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/09/24 17:50	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/09/24 17:50	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/09/24 17:50	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/09/24 17:50	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/09/24 17:50	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/09/24 17:50	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/09/24 17:50	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/09/24 17:50	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/09/24 17:50	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/09/24 17:50	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/09/24 17:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/09/24 17:50*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/09/24 17:50*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*03/09/24 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*03/09/24 17:50*	*1*

Lab Sample ID: LCS 680-826692/6
Matrix: Solid
Analysis Batch: 826692

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.05445		mg/L		109	70 - 130
1,2-Dichloroethane	0.0500	0.05734		mg/L		115	70 - 130
1,4-Dichlorobenzene	0.0500	0.04908		mg/L		98	70 - 130
2-Butanone (MEK)	0.250	0.2069		mg/L		83	69 - 114
Benzene	0.0500	0.05348		mg/L		107	70 - 130
Carbon tetrachloride	0.0500	0.05311		mg/L		106	70 - 130
Chlorobenzene	0.0500	0.05033		mg/L		101	70 - 130
Chloroform	0.0500	0.05407		mg/L		108	70 - 130
Hexachlorobutadiene	0.0500	0.05148		mg/L		103	70 - 130
Tetrachloroethene	0.0500	0.05692		mg/L		114	70 - 130
Trichloroethene	0.0500	0.05603		mg/L		112	70 - 130
Vinyl chloride	0.0500	0.06136		mg/L		123	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*

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

Lab Sample ID: LCSD 680-826692/7
Matrix: Solid
Analysis Batch: 826692

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-Dichloroethene			0.0500	0.04675		mg/L		94	70 - 130	15	20
1,2-Dichloroethane			0.0500	0.05640		mg/L		113	70 - 130	2	50
1,4-Dichlorobenzene			0.0500	0.05000		mg/L		100	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2132		mg/L		85	69 - 114	3	30
Benzene			0.0500	0.05334		mg/L		107	70 - 130	0	30
Carbon tetrachloride			0.0500	0.05582		mg/L		112	70 - 130	5	30
Chlorobenzene			0.0500	0.05058		mg/L		101	70 - 130	0	30
Chloroform			0.0500	0.05399		mg/L		108	70 - 130	0	30
Hexachlorobutadiene			0.0500	0.05550		mg/L		111	70 - 130	8	20
Tetrachloroethene			0.0500	0.05980		mg/L		120	70 - 130	5	30
Trichloroethene			0.0500	0.05910		mg/L		118	70 - 130	5	30
Vinyl chloride			0.0500	0.06160		mg/L		123	66 - 129	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*

Lab Sample ID: 680-247524-8 MS
Matrix: Solid
Analysis Batch: 826692

Client Sample ID: NH-13b
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.00720		1.00	0.9660		mg/L		97	70 - 130
1,2-Dichloroethane	<0.0100		1.00	1.144		mg/L		114	70 - 130
1,4-Dichlorobenzene	<0.00920		1.00	1.020		mg/L		102	70 - 130
2-Butanone (MEK)	<0.0680		5.00	3.952		mg/L		79	69 - 114
Benzene	<0.00860		1.00	1.115		mg/L		111	70 - 130
Carbon tetrachloride	<0.00660		1.00	1.153		mg/L		115	70 - 130
Chlorobenzene	<0.00520		1.00	1.062		mg/L		106	70 - 130
Chloroform	<0.0100		1.00	1.111		mg/L		111	70 - 130
Hexachlorobutadiene	<0.0500		1.00	1.092		mg/L		109	70 - 130
Tetrachloroethene	<0.0150		1.00	1.218		mg/L		122	70 - 130
Trichloroethene	<0.00960		1.00	1.159		mg/L		116	70 - 130
Vinyl chloride	<0.0100		1.00	1.272		mg/L		127	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*119*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*

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

Lab Sample ID: 680-247524-8 MSD
Matrix: Solid
Analysis Batch: 826692

Client Sample ID: NH-13b
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	<0.00720		1.00	0.8950		mg/L		90	70 - 130	8	20
1,2-Dichloroethane	<0.0100		1.00	1.087		mg/L		109	70 - 130	5	50
1,4-Dichlorobenzene	<0.00920		1.00	0.9649		mg/L		96	70 - 130	6	20
2-Butanone (MEK)	<0.0680		5.00	3.831		mg/L		77	69 - 114	3	20
Benzene	<0.00860		1.00	1.045		mg/L		104	70 - 130	6	20
Carbon tetrachloride	<0.00660		1.00	1.131		mg/L		113	70 - 130	2	20
Chlorobenzene	<0.00520		1.00	1.004		mg/L		100	70 - 130	6	20
Chloroform	<0.0100		1.00	1.075		mg/L		107	70 - 130	3	20
Hexachlorobutadiene	<0.0500		1.00	1.083		mg/L		108	70 - 130	1	20
Tetrachloroethene	<0.0150		1.00	1.183		mg/L		118	70 - 130	3	20
Trichloroethene	<0.00960		1.00	1.079		mg/L		108	70 - 130	7	20
Vinyl chloride	<0.0100		1.00	1.201		mg/L		120	66 - 129	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*

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

Lab Sample ID: MB 680-826629/1-A
Matrix: Solid
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/08/24 17:25	03/09/24 14:46	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/08/24 17:25	03/09/24 14:46	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/08/24 17:25	03/09/24 14:46	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/08/24 17:25	03/09/24 14:46	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/08/24 17:25	03/09/24 14:46	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/08/24 17:25	03/09/24 14:46	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/08/24 17:25	03/09/24 14:46	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/08/24 17:25	03/09/24 14:46	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/08/24 17:25	03/09/24 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
2-Fluorobiphenyl (Surr)	*74*		*25 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
Terphenyl-d14 (Surr)	*92*		*35 - 131*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
Phenol-d5 (Surr)	*30*		*10 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*

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

Lab Sample ID: LCS 680-826629/2-A
Matrix: Solid
Analysis Batch: 826647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1122		mg/L		56	13 - 130
Pyridine	0.400	0.05467		mg/L		14	10 - 130
Hexachlorobenzene	0.200	0.1626		mg/L		81	30 - 130
2,4-Dinitrotoluene	0.200	0.1625		mg/L		81	37 - 130
Hexachloroethane	0.200	0.1176		mg/L		59	12 - 130
Hexachlorobutadiene	0.200	0.1138		mg/L		57	12 - 130
Pentachlorophenol	0.400	0.3631		mg/L		91	24 - 130
2,4,6-Trichlorophenol	0.200	0.1371		mg/L		69	28 - 130
2,4,5-Trichlorophenol	0.200	0.1406		mg/L		70	26 - 130
Nitrobenzene	0.200	0.1352		mg/L		68	32 - 130
2-Methylphenol	0.200	0.1104		mg/L		55	21 - 130
3 & 4 Methylphenol	0.200	0.1078		mg/L		54	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Terphenyl-d14 (Surr)	*79*		*35 - 131*
Phenol-d5 (Surr)	*26*		*10 - 130*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*

Lab Sample ID: LB1 680-826369/1-C
Matrix: Solid
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 826629

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 15:12	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/08/24 17:25	03/09/24 15:12	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/08/24 17:25	03/09/24 15:12	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/08/24 17:25	03/09/24 15:12	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 15:12	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/08/24 17:25	03/09/24 15:12	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/08/24 17:25	03/09/24 15:12	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/08/24 17:25	03/09/24 15:12	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/08/24 17:25	03/09/24 15:12	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/08/24 17:25	03/09/24 15:12	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/08/24 17:25	03/09/24 15:12	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/08/24 17:25	03/09/24 15:12	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*30 - 130*	*03/08/24 17:25*	*03/09/24 15:12*	*1*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/08/24 17:25*	*03/09/24 15:12*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 130*	*03/08/24 17:25*	*03/09/24 15:12*	*1*
Terphenyl-d14 (Surr)	*85*		*35 - 131*	*03/08/24 17:25*	*03/09/24 15:12*	*1*
Phenol-d5 (Surr)	*29*		*10 - 130*	*03/08/24 17:25*	*03/09/24 15:12*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/08/24 17:25*	*03/09/24 15:12*	*1*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

GC/MS VOA

Leach Batch: 826371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247524-1	NH-11a	TCLP	Solid	1311	
680-247524-2	NH-11b	TCLP	Solid	1311	
680-247524-4	NH-12a	TCLP	Solid	1311	
680-247524-5	NH-12b	TCLP	Solid	1311	
680-247524-7	NH-13a	TCLP	Solid	1311	
680-247524-8	NH-13b	TCLP	Solid	1311	
680-247524-8 MS	NH-13b	TCLP	Solid	1311	
680-247524-8 MSD	NH-13b	TCLP	Solid	1311	

Analysis Batch: 826692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247524-1	NH-11a	TCLP	Solid	8260D	826371
680-247524-2	NH-11b	TCLP	Solid	8260D	826371
680-247524-4	NH-12a	TCLP	Solid	8260D	826371
680-247524-5	NH-12b	TCLP	Solid	8260D	826371
680-247524-7	NH-13a	TCLP	Solid	8260D	826371
680-247524-8	NH-13b	TCLP	Solid	8260D	826371
MB 680-826692/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-826692/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826692/7	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247524-8 MS	NH-13b	TCLP	Solid	8260D	826371
680-247524-8 MSD	NH-13b	TCLP	Solid	8260D	826371

GC/MS Semi VOA

Leach Batch: 826369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247524-3	NH-11	TCLP	Solid	1311	
680-247524-6	NH-12	TCLP	Solid	1311	
680-247524-9	NH-13	TCLP	Solid	1311	
LB1 680-826369/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 826629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247524-3	NH-11	TCLP	Solid	3510C	826369
680-247524-6	NH-12	TCLP	Solid	3510C	826369
680-247524-9	NH-13	TCLP	Solid	3510C	826369
LB1 680-826369/1-C	Method Blank	TCLP	Solid	3510C	826369
MB 680-826629/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-826629/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 826647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247524-3	NH-11	TCLP	Solid	8270E	826629
680-247524-6	NH-12	TCLP	Solid	8270E	826629
680-247524-9	NH-13	TCLP	Solid	8270E	826629
LB1 680-826369/1-C	Method Blank	TCLP	Solid	8270E	826629
MB 680-826629/1-A	Method Blank	Total/NA	Solid	8270E	826629
LCS 680-826629/2-A	Lab Control Sample	Total/NA	Solid	8270E	826629

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

Client Sample ID: NH-11a
Date Collected: 03/04/24 16:20
Date Received: 03/05/24 10:26

Lab Sample ID: 680-247524-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	826371	03/07/24 19:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826692	03/09/24 18:23	Y1S	EET SAV

Instrument ID: CMSB

Client Sample ID: NH-11b
Date Collected: 03/04/24 16:25
Date Received: 03/05/24 10:26

Lab Sample ID: 680-247524-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	826371	03/07/24 19:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826692	03/09/24 18:44	Y1S	EET SAV

Instrument ID: CMSB

Client Sample ID: NH-11
Date Collected: 03/04/24 16:20
Date Received: 03/05/24 10:26

Lab Sample ID: 680-247524-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.06 g	2000 mL	826369	03/07/24 19:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 19:35	T1C	EET SAV

Instrument ID: CMSK

Client Sample ID: NH-12a
Date Collected: 03/04/24 16:30
Date Received: 03/05/24 10:26

Lab Sample ID: 680-247524-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	826371	03/07/24 19:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826692	03/09/24 19:05	Y1S	EET SAV

Instrument ID: CMSB

Client Sample ID: NH-12b
Date Collected: 03/04/24 06:35
Date Received: 03/05/24 10:26

Lab Sample ID: 680-247524-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	826371	03/07/24 19:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826692	03/09/24 19:26	Y1S	EET SAV

Instrument ID: CMSB

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

Client Sample ID: NH-12

Lab Sample ID: 680-247524-6

Date Collected: 03/04/24 16:30
Matrix: Solid
Date Received: 03/05/24 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.00 g	2000 mL	826369	03/07/24 19:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 20:01	T1C	EET SAV

Instrument ID: CMSK

Client Sample ID: NH-13a

Lab Sample ID: 680-247524-7

Date Collected: 03/04/24 16:40
Matrix: Solid
Date Received: 03/05/24 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	826371	03/07/24 19:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826692	03/09/24 19:47	Y1S	EET SAV

Instrument ID: CMSB

Client Sample ID: NH-13b

Lab Sample ID: 680-247524-8

Date Collected: 03/04/24 16:45
Matrix: Solid
Date Received: 03/05/24 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	826371	03/07/24 19:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	826692	03/09/24 20:08	Y1S	EET SAV

Instrument ID: CMSB

Client Sample ID: NH-13

Lab Sample ID: 680-247524-9

Date Collected: 03/04/24 16:40
Matrix: Solid
Date Received: 03/05/24 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	826369	03/07/24 19:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 20:27	T1C	EET SAV

Instrument ID: CMSK

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: 680-247524-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247524-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): Standard			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water			1311/8260D - TCLP VOCs	1311/8270E - TCLP SVOCs								Total Number of containers	Special Instructions/Note:
			Preservation Code:				EF	N	A			N	N									
NH-11a	03/04	1620	G	S								X										
NH-11b		1625	G	S								X										
NH-11		1620	C	S									X									
NH-12a		1630	G	S								X										
NH-12b		1635	G	S								X										
NH-12		1630	C	S									X									
NH-13a		1640	G	S								X										
NH-13b		1645	G	S								X										
NH-13		1640	C	S									X									
TB_20240304	↓	—	G	W																		ON HOLD

680-247524 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

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

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	03/04/24 1930			3.5.24 1026	TM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 1.9/1.9

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247524-1

Login Number: 247524

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	

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/18/2024 4:22:35 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247630-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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3/18/2024 4:22:35 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

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.
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, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247630-1	WOTA-BS-04	Solid	03/05/24 09:50	03/06/24 10:17
680-247630-2	WOTA-BS-05	Solid	03/05/24 09:55	03/06/24 10:17
680-247630-3	WOTA-BS-06	Solid	03/05/24 10:00	03/06/24 10:17
680-247630-4	NH-14a	Solid	03/05/24 10:20	03/06/24 10:17
680-247630-5	NH-14b	Solid	03/05/24 10:25	03/06/24 10:17
680-247630-6	NH-14	Solid	03/05/24 10:20	03/06/24 10:17
680-247630-7	Field Blank - 20240305	Water	03/05/24 12:30	03/06/24 10:17
680-247630-8	Equipment Blank - 20240305	Water	03/05/24 12:40	03/06/24 10:17
680-247630-9	Trip Blank	Water	03/05/24 00:00	03/06/24 10:17

Job ID: 680-247630-1 Eurofins Savannah

Job Narrative
680-247630-1

Receipt
The samples were received on 3/6/2024 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions
COC lists an MS/MSD sample that appears to have been belong to a sample not listed on COC.

GC/MS VOA
Method 8260D - TCLP: The leachate blank (LB) for preparation batch 680-827653 contained Chlorobenzene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0342**	**J**	0.0520	0.0114	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Benzene	<0.00250		0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Bromobenzene	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chlorobromomethane	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Dichlorobromomethane	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Bromoform	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Bromomethane	<0.00250	*+	0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2-Butanone (MEK)	<0.00957		0.0260	0.00957	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
n-Butylbenzene	<0.00198		0.00520	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
sec-Butylbenzene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
tert-Butylbenzene	<0.00260		0.00520	0.00260	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Carbon disulfide	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Carbon tetrachloride	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chlorobenzene	<0.00146		0.00520	0.00146	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chloroethane	<0.00229	*+	0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chloroform	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chloromethane	<0.00250		0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2-Chlorotoluene	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
4-Chlorotoluene	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chlorodibromomethane	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dibromo-3-Chloropropane	<0.00167		0.0104	0.00167	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Ethylene Dibromide	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Dibromomethane	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dichlorobenzene	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,3-Dichlorobenzene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,4-Dichlorobenzene	<0.00187		0.00520	0.00187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
trans-1,4-Dichloro-2-butene	<0.00250		0.0104	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Dichlorodifluoromethane	<0.00333		0.00520	0.00333	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1-Dichloroethane	<0.00302		0.00520	0.00302	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dichloroethane	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
cis-1,2-Dichloroethene	**0.0151**		0.00520	0.00302	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
trans-1,2-Dichloroethene	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1-Dichloroethene	<0.00375		0.00520	0.00375	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dichloropropane	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,3-Dichloropropane	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2,2-Dichloropropane	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1-Dichloropropene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
cis-1,3-Dichloropropene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
trans-1,3-Dichloropropene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Ethylbenzene	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Hexachlorobutadiene	<0.00427		0.00520	0.00427	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2-Hexanone	<0.0198		0.0260	0.0198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Iodomethane	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Isopropylbenzene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
4-Isopropyltoluene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Methylene Chloride	<0.00833		0.0104	0.00833	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0187		0.0260	0.0187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Methyl tert-butyl ether	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Naphthalene	<0.00323		0.00520	0.00323	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Styrene	<0.00198		0.00520	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,1,2-Tetrachloroethane	<0.00135		0.00520	0.00135	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,2,2-Tetrachloroethane	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Tetrachloroethene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Toluene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,3-Trichlorobenzene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,4-Trichlorobenzene	<0.00260		0.00520	0.00260	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,1-Trichloroethane	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,2-Trichloroethane	<0.00156		0.00520	0.00156	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Trichloroethene	**0.0831**		0.00520	0.00187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Trichlorofluoromethane	<0.00323		0.00520	0.00323	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,3-Trichloropropane	<0.00187		0.00520	0.00187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00302		0.00520	0.00302	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,4-Trimethylbenzene	<0.00260		0.00520	0.00260	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,3,5-Trimethylbenzene	<0.00250		0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Vinyl acetate	<0.00572		0.0104	0.00572	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Vinyl chloride	<0.00291		0.00520	0.00291	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
o-Xylene	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
m-Xylene & p-Xylene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Xylenes, Total	<0.00375		0.0104	0.00375	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Isopropyl ether	<0.00156		0.0104	0.00156	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Hexane	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
n-Heptane	<0.00447		0.00520	0.00447	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Ethyl acetate	<0.0104		0.0104	0.0104	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*121*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*126*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*
Dibromofluoromethane (Surr)	*122*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0499		0.402	0.0499	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Acenaphthylene	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Acetophenone	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Anthracene	<0.0304		0.402	0.0304	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Atrazine	<0.0280		0.402	0.0280	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzaldehyde	<0.0706		0.402	0.0706	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[a]anthracene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[a]pyrene	<0.0633		0.402	0.0633	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[b]fluoranthene	<0.0462		0.402	0.0462	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[g,h,i]perylene	<0.0268		0.402	0.0268	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[k]fluoranthene	<0.0791		0.402	0.0791	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
1,1'-Biphenyl	<2.07		2.07	2.07	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Bis(2-chloroethoxy)methane	<0.0475		0.402	0.0475	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Bis(2-chloroethyl)ether	<0.0548		0.402	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
bis (2-chloroisopropyl) ether	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Bis(2-ethylhexyl) phthalate	<0.0353		0.402	0.0353	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Butyl benzyl phthalate	<0.0316		0.402	0.0316	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Caprolactam	<0.0803		0.402	0.0803	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Carbazole	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Chloroaniline	<0.0633		0.803	0.0633	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Chloro-3-methylphenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Chloronaphthalene	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Chlorophenol	<0.0487		0.402	0.0487	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Chlorophenyl phenyl ether	<0.0535		0.402	0.0535	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Chrysene	<0.0256		0.402	0.0256	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Dibenz(a,h)anthracene	<0.0475		0.402	0.0475	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Dibenzofuran	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
3,3'-Dichlorobenzidine	<0.0341		0.803	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dichlorophenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Diethyl phthalate	<0.0450		0.402	0.0450	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dimethylphenol	<0.0535		0.402	0.0535	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Dimethyl phthalate	<0.0414		0.402	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Di-n-butyl phthalate	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4,6-Dinitro-2-methylphenol	<0.207		2.07	0.207	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dinitrophenol	<1.01		2.07	1.01	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dinitrotoluene	<0.0596		0.402	0.0596	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,6-Dinitrotoluene	<0.0511		0.402	0.0511	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Di-n-octyl phthalate	<0.0353		0.402	0.0353	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Fluoranthene	<0.0389		0.402	0.0389	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Fluorene	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachlorobenzene	<0.0475		0.402	0.0475	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachlorobutadiene	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachlorocyclopentadiene	<0.0499		0.402	0.0499	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachloroethane	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Indeno[1,2,3-cd]pyrene	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Isophorone	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Methylnaphthalene	<0.0462		0.402	0.0462	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Methylphenol	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
3 & 4 Methylphenol	<0.0523		0.402	0.0523	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Naphthalene	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Nitroaniline	<0.0548		2.07	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
3-Nitroaniline	<0.0560		2.07	0.0560	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Nitroaniline	<0.0596		2.07	0.0596	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Nitrobenzene	<0.0316		0.402	0.0316	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Nitrophenol	<0.0499		0.402	0.0499	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Nitrophenol	<0.402		2.07	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
N-Nitrosodi-n-propylamine	<0.0389		0.402	0.0389	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
N-Nitrosodiphenylamine	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Pentachlorophenol	<0.402		2.07	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Phenanthrene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Phenol	<0.0414		0.402	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Pyrene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Pyridine	<0.402		0.803	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4,5-Trichlorophenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1

Client Sample ID: WOTA-BS-04

Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1

Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0353		0.402	0.0353	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
2-Fluorophenol (Surr)	*61*		*18 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
Nitrobenzene-d5 (Surr)	*66*		*19 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
Terphenyl-d14 (Surr)	*73*		*31 - 133*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/11/24 10:45*	*03/11/24 21:14*	*1*

Client Sample ID: WOTA-BS-05

Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2

Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0232**	**J**	0.0470	0.0103	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Benzene	<0.00225		0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Bromobenzene	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chlorobromomethane	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Dichlorobromomethane	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Bromoform	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Bromomethane	<0.00225	*+	0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2-Butanone (MEK)	<0.00864		0.0235	0.00864	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
n-Butylbenzene	<0.00178		0.00470	0.00178	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
sec-Butylbenzene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
tert-Butylbenzene	<0.00235		0.00470	0.00235	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Carbon disulfide	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Carbon tetrachloride	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chlorobenzene	<0.00131		0.00470	0.00131	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chloroethane	<0.00207	*+	0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chloroform	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chloromethane	<0.00225		0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2-Chlorotoluene	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
4-Chlorotoluene	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chlorodibromomethane	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dibromo-3-Chloropropane	<0.00150		0.00939	0.00150	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Ethylene Dibromide	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Dibromomethane	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dichlorobenzene	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,3-Dichlorobenzene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,4-Dichlorobenzene	<0.00169		0.00470	0.00169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
trans-1,4-Dichloro-2-butene	<0.00225		0.00939	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Dichlorodifluoromethane	<0.00301		0.00470	0.00301	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1-Dichloroethane	<0.00272		0.00470	0.00272	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dichloroethane	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
cis-1,2-Dichloroethene	**0.00537**		0.00470	0.00272	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
trans-1,2-Dichloroethene	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1-Dichloroethene	<0.00338		0.00470	0.00338	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dichloropropane	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2,2-Dichloropropane	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1-Dichloropropene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
cis-1,3-Dichloropropene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
trans-1,3-Dichloropropene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Ethylbenzene	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Hexachlorobutadiene	<0.00385		0.00470	0.00385	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2-Hexanone	<0.0178		0.0235	0.0178	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Iodomethane	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Isopropylbenzene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
4-Isopropyltoluene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Methylene Chloride	<0.00751		0.00939	0.00751	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0169		0.0235	0.0169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Methyl tert-butyl ether	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Naphthalene	<0.00291		0.00470	0.00291	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
N-Propylbenzene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Styrene	<0.00178		0.00470	0.00178	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,1,2-Tetrachloroethane	<0.00122		0.00470	0.00122	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,2,2-Tetrachloroethane	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Tetrachloroethene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Toluene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,3-Trichlorobenzene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,4-Trichlorobenzene	<0.00235		0.00470	0.00235	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,1-Trichloroethane	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,2-Trichloroethane	<0.00141		0.00470	0.00141	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Trichloroethene	**0.0238**		0.00470	0.00169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Trichlorofluoromethane	<0.00291		0.00470	0.00291	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,3-Trichloropropane	<0.00169		0.00470	0.00169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00272		0.00470	0.00272	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,4-Trimethylbenzene	<0.00235		0.00470	0.00235	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,3,5-Trimethylbenzene	<0.00225		0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Vinyl acetate	<0.00517		0.00939	0.00517	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Vinyl chloride	<0.00263		0.00470	0.00263	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
o-Xylene	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
m-Xylene & p-Xylene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Xylenes, Total	<0.00338		0.00939	0.00338	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Isopropyl ether	<0.00141		0.00939	0.00141	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Hexane	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
n-Heptane	<0.00404		0.00470	0.00404	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Ethyl acetate	<0.00939		0.00939	0.00939	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*119*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*
Dibromofluoromethane (Surr)	*121*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0507		0.408	0.0507	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Acetophenone	<0.0346		0.408	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Anthracene	<0.0309		0.408	0.0309	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Atrazine	<0.0285		0.408	0.0285	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzaldehyde	<0.0718		0.408	0.0718	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[a]anthracene	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[a]pyrene	<0.0643		0.408	0.0643	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[b]fluoranthene	<0.0470		0.408	0.0470	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[g,h,i]perylene	<0.0272		0.408	0.0272	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[k]fluoranthene	<0.0804		0.408	0.0804	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
1,1'-Biphenyl	<2.10		2.10	2.10	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Bis(2-chloroethoxy)methane	<0.0483		0.408	0.0483	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Bis(2-chloroethyl)ether	<0.0557		0.408	0.0557	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
bis (2-chloroisopropyl) ether	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Bis(2-ethylhexyl) phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Bromophenyl phenyl ether	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Butyl benzyl phthalate	<0.0322		0.408	0.0322	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Caprolactam	<0.0817		0.408	0.0817	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Carbazole	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Chloroaniline	<0.0643		0.817	0.0643	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Chloro-3-methylphenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Chloronaphthalene	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Chlorophenol	<0.0495		0.408	0.0495	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Chlorophenyl phenyl ether	<0.0544		0.408	0.0544	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Chrysene	<0.0260		0.408	0.0260	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Dibenz(a,h)anthracene	<0.0483		0.408	0.0483	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Dibenzofuran	<0.0408		0.408	0.0408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
3,3'-Dichlorobenzidine	<0.0346		0.817	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Diethyl phthalate	<0.0458		0.408	0.0458	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dimethylphenol	<0.0544		0.408	0.0544	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Dimethyl phthalate	<0.0421		0.408	0.0421	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Di-n-butyl phthalate	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4,6-Dinitro-2-methylphenol	<0.210		2.10	0.210	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dinitrophenol	<1.03		2.10	1.03	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dinitrotoluene	<0.0606		0.408	0.0606	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,6-Dinitrotoluene	<0.0520		0.408	0.0520	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Di-n-octyl phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Fluoranthene	<0.0396		0.408	0.0396	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Fluorene	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachlorobenzene	<0.0483		0.408	0.0483	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachlorobutadiene	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachlorocyclopentadiene	<0.0507		0.408	0.0507	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachloroethane	<0.0346		0.408	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Indeno[1,2,3-cd]pyrene	<0.0346		0.408	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Isophorone	<0.0408		0.408	0.0408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Methylnaphthalene	<0.0470		0.408	0.0470	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Methylphenol	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
3 & 4 Methylphenol	<0.0532		0.408	0.0532	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1

Client Sample ID: WOTA-BS-05

Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2

Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Nitroaniline	<0.0557		2.10	0.0557	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
3-Nitroaniline	<0.0569		2.10	0.0569	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Nitroaniline	<0.0606		2.10	0.0606	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Nitrobenzene	<0.0322		0.408	0.0322	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Nitrophenol	<0.0507		0.408	0.0507	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Nitrophenol	<0.408		2.10	0.408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
N-Nitrosodi-n-propylamine	<0.0396		0.408	0.0396	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
N-Nitrosodiphenylamine	<0.0408		0.408	0.0408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Pentachlorophenol	<0.408		2.10	0.408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Phenanthrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Phenol	<0.0421		0.408	0.0421	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Pyrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Pyridine	<0.408		0.817	0.408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4,5-Trichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4,6-Trichlorophenol	<0.0359		0.408	0.0359	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
2-Fluorophenol (Surr)	*57*		*18 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
Nitrobenzene-d5 (Surr)	*58*		*19 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
Phenol-d5 (Surr)	*56*		*21 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
Terphenyl-d14 (Surr)	*66*		*31 - 133*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*21 - 132*	*03/11/24 10:45*	*03/11/24 21:39*	*1*

Client Sample ID: WOTA-BS-06

Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3

Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0191**	**J**	0.0412	0.00906	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Benzene	<0.00198		0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Bromobenzene	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chlorobromomethane	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Dichlorobromomethane	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Bromoform	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Bromomethane	<0.00198	*+	0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2-Butanone (MEK)	<0.00758		0.0206	0.00758	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
n-Butylbenzene	<0.00157		0.00412	0.00157	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
sec-Butylbenzene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
tert-Butylbenzene	<0.00206		0.00412	0.00206	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Carbon disulfide	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Carbon tetrachloride	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chlorobenzene	<0.00115		0.00412	0.00115	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chloroethane	<0.00181	*+	0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chloroform	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chloromethane	<0.00198		0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2-Chlorotoluene	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
4-Chlorotoluene	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-06
Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3
Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dibromo-3-Chloropropane	<0.00132		0.00824	0.00132	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Ethylene Dibromide	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Dibromomethane	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dichlorobenzene	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,3-Dichlorobenzene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,4-Dichlorobenzene	<0.00148		0.00412	0.00148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
trans-1,4-Dichloro-2-butene	<0.00198		0.00824	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Dichlorodifluoromethane	<0.00264		0.00412	0.00264	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1-Dichloroethane	<0.00239		0.00412	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dichloroethane	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
cis-1,2-Dichloroethene	**0.00630**		0.00412	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
trans-1,2-Dichloroethene	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1-Dichloroethene	<0.00297		0.00412	0.00297	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dichloropropane	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,3-Dichloropropane	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2,2-Dichloropropane	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1-Dichloropropene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
cis-1,3-Dichloropropene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
trans-1,3-Dichloropropene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Ethylbenzene	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Hexachlorobutadiene	<0.00338		0.00412	0.00338	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2-Hexanone	<0.0157		0.0206	0.0157	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Iodomethane	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Isopropylbenzene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
4-Isopropyltoluene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Methylene Chloride	<0.00659		0.00824	0.00659	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
4-Methyl-2-pentanone (MIBK)	<0.0148		0.0206	0.0148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Methyl tert-butyl ether	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Naphthalene	<0.00255		0.00412	0.00255	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
N-Propylbenzene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Styrene	<0.00157		0.00412	0.00157	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,1,2-Tetrachloroethane	<0.00107		0.00412	0.00107	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,2,2-Tetrachloroethane	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Tetrachloroethene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Toluene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,3-Trichlorobenzene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,4-Trichlorobenzene	<0.00206		0.00412	0.00206	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,1-Trichloroethane	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,2-Trichloroethane	<0.00124		0.00412	0.00124	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Trichloroethene	**0.00257**	**J**	0.00412	0.00148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Trichlorofluoromethane	<0.00255		0.00412	0.00255	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,3-Trichloropropane	<0.00148		0.00412	0.00148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00239		0.00412	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,4-Trimethylbenzene	<0.00206		0.00412	0.00206	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,3,5-Trimethylbenzene	<0.00198		0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Vinyl acetate	<0.00453		0.00824	0.00453	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Vinyl chloride	<0.00231		0.00412	0.00231	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
o-Xylene	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1

Client Sample ID: WOTA-BS-06

Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3

Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Xylenes, Total	<0.00297		0.00824	0.00297	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Isopropyl ether	<0.00124		0.00824	0.00124	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Hexane	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
n-Heptane	<0.00354		0.00412	0.00354	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Ethyl acetate	<0.00824		0.00824	0.00824	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*123*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*135*	*S1+*	*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*
Dibromofluoromethane (Surr)	*124*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*
4-Bromofluorobenzene (Surr)	*116*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0501		0.403	0.0501	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Acenaphthylene	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Acetophenone	<0.0342		0.403	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Anthracene	<0.0305		0.403	0.0305	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Atrazine	<0.0281		0.403	0.0281	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzaldehyde	<0.0708		0.403	0.0708	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[a]anthracene	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[a]pyrene	<0.0635		0.403	0.0635	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[b]fluoranthene	<0.0464		0.403	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[g,h,i]perylene	<0.0269		0.403	0.0269	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[k]fluoranthene	<0.0794		0.403	0.0794	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
1,1'-Biphenyl	<2.08		2.08	2.08	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Bis(2-chloroethoxy)methane	<0.0476		0.403	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Bis(2-chloroethyl)ether	<0.0550		0.403	0.0550	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
bis (2-chloroisopropyl) ether	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Bis(2-ethylhexyl) phthalate	<0.0354		0.403	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Bromophenyl phenyl ether	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Butyl benzyl phthalate	<0.0318		0.403	0.0318	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Caprolactam	<0.0806		0.403	0.0806	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Carbazole	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Chloroaniline	<0.0635		0.806	0.0635	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Chloro-3-methylphenol	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Chloronaphthalene	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Chlorophenol	<0.0489		0.403	0.0489	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Chlorophenyl phenyl ether	<0.0537		0.403	0.0537	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Chrysene	<0.0257		0.403	0.0257	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Dibenz(a,h)anthracene	<0.0476		0.403	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Dibenzofuran	<0.0403		0.403	0.0403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
3,3'-Dichlorobenzidine	<0.0342		0.806	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4-Dichlorophenol	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Diethyl phthalate	<0.0452		0.403	0.0452	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4-Dimethylphenol	<0.0537		0.403	0.0537	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Dimethyl phthalate	<0.0415		0.403	0.0415	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Di-n-butyl phthalate	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4,6-Dinitro-2-methylphenol	<0.208		2.08	0.208	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1

Client Sample ID: WOTA-BS-06

Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3

Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<1.01		2.08	1.01	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4-Dinitrotoluene	<0.0599		0.403	0.0599	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,6-Dinitrotoluene	<0.0513		0.403	0.0513	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Di-n-octyl phthalate	<0.0354		0.403	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Fluoranthene	<0.0391		0.403	0.0391	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Fluorene	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachlorobenzene	<0.0476		0.403	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachlorobutadiene	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachlorocyclopentadiene	<0.0501		0.403	0.0501	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachloroethane	<0.0342		0.403	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Indeno[1,2,3-cd]pyrene	<0.0342		0.403	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Isophorone	<0.0403		0.403	0.0403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Methylnaphthalene	<0.0464		0.403	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Methylphenol	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
3 & 4 Methylphenol	<0.0525		0.403	0.0525	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Naphthalene	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Nitroaniline	<0.0550		2.08	0.0550	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
3-Nitroaniline	<0.0562		2.08	0.0562	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Nitroaniline	<0.0599		2.08	0.0599	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Nitrobenzene	<0.0318		0.403	0.0318	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Nitrophenol	<0.0501		0.403	0.0501	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Nitrophenol	<0.403		2.08	0.403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
N-Nitrosodi-n-propylamine	<0.0391		0.403	0.0391	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
N-Nitrosodiphenylamine	<0.0403		0.403	0.0403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Pentachlorophenol	<0.403		2.08	0.403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Phenanthrene	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Phenol	<0.0415		0.403	0.0415	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Pyrene	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Pyridine	<0.403		0.806	0.403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4,5-Trichlorophenol	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4,6-Trichlorophenol	<0.0354		0.403	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
Phenol-d5 (Surr)	*59*		*21 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*	*03/11/24 10:45*	*03/11/24 22:05*	*1*

Client Sample ID: NH-14a

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 14:36	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 14:36	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 14:36	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 14:36	20

Client Sample ID: NH-14a

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 14:36	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 14:36	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 14:36	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 14:36	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 14:36	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 14:36	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 14:36	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			03/15/24 14:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/24 14:36*	*20*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*03/15/24 14:36*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 14:36*	*20*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*03/15/24 14:36*	*20*

Client Sample ID: NH-14b

Date Collected: 03/05/24 10:25
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 15:43	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:43	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 15:43	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/17/24 15:43	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 15:43	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 15:43	20
Chlorobenzene	**0.0506**		0.0200	0.00520	mg/L			03/17/24 15:43	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:43	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 15:43	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 15:43	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 15:43	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/17/24 15:43*	*20*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/17/24 15:43*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/17/24 15:43*	*20*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*03/17/24 15:43*	*20*

Client Sample ID: NH-14

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-6

Matrix: Solid
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0510		0.411	0.0510	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Acenaphthylene	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Acetophenone	<0.0349		0.411	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Anthracene	<0.0311		0.411	0.0311	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Atrazine	<0.0286		0.411	0.0286	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1

Client Sample ID: NH-14
Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-6
Matrix: Solid
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<0.0722		0.411	0.0722	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[a]anthracene	**0.0554**	**J**	0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[a]pyrene	**0.0705**	**J**	0.411	0.0647	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[b]fluoranthene	<0.0473		0.411	0.0473	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[g,h,i]perylene	**0.0660**	**J**	0.411	0.0274	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[k]fluoranthene	<0.0809		0.411	0.0809	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
1,1'-Biphenyl	<2.12		2.12	2.12	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Bis(2-chloroethoxy)methane	<0.0486		0.411	0.0486	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Bis(2-chloroethyl)ether	<0.0560		0.411	0.0560	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
bis (2-chloroisopropyl) ether	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Bis(2-ethylhexyl) phthalate	<0.0361		0.411	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Bromophenyl phenyl ether	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Butyl benzyl phthalate	<0.0324		0.411	0.0324	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Caprolactam	<0.0822		0.411	0.0822	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Carbazole	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Chloroaniline	<0.0647		0.822	0.0647	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Chloro-3-methylphenol	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Chloronaphthalene	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Chlorophenol	<0.0498		0.411	0.0498	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Chlorophenyl phenyl ether	<0.0548		0.411	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Chrysene	**0.0629**	**J**	0.411	0.0261	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Dibenz(a,h)anthracene	<0.0486		0.411	0.0486	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Dibenzofuran	<0.0411		0.411	0.0411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
3,3'-Dichlorobenzidine	<0.0349		0.822	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dichlorophenol	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Diethyl phthalate	<0.0461		0.411	0.0461	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dimethylphenol	<0.0548		0.411	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Dimethyl phthalate	<0.0423		0.411	0.0423	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Di-n-butyl phthalate	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4,6-Dinitro-2-methylphenol	<0.212		2.12	0.212	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dinitrophenol	<1.03		2.12	1.03	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dinitrotoluene	<0.0610		0.411	0.0610	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,6-Dinitrotoluene	<0.0523		0.411	0.0523	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Di-n-octyl phthalate	<0.0361		0.411	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Fluoranthene	**0.0700**	**J**	0.411	0.0398	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Fluorene	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachlorobenzene	<0.0486		0.411	0.0486	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachlorobutadiene	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachlorocyclopentadiene	<0.0510		0.411	0.0510	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachloroethane	<0.0349		0.411	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Indeno[1,2,3-cd]pyrene	<0.0349		0.411	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Isophorone	<0.0411		0.411	0.0411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Methylnaphthalene	<0.0473		0.411	0.0473	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Methylphenol	<0.0336		0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
3 & 4 Methylphenol	<0.0535		0.411	0.0535	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Naphthalene	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Nitroaniline	<0.0560		2.12	0.0560	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
3-Nitroaniline	<0.0573		2.12	0.0573	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Nitroaniline	<0.0610		2.12	0.0610	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1

Client Sample ID: NH-14

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-6

Matrix: Solid
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<0.0324		0.411	0.0324	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Nitrophenol	<0.0510		0.411	0.0510	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Nitrophenol	<0.411		2.12	0.411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
N-Nitrosodi-n-propylamine	<0.0398		0.411	0.0398	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
N-Nitrosodiphenylamine	<0.0411		0.411	0.0411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Pentachlorophenol	<0.411		2.12	0.411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Phenanthrene	<0.0336		0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Phenol	<0.0423		0.411	0.0423	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Pyrene	**0.0912**	**J**	0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Pyridine	<0.411		0.822	0.411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4,5-Trichlorophenol	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4,6-Trichlorophenol	<0.0361		0.411	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
2-Fluorophenol (Surr)	*57*		*18 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
Nitrobenzene-d5 (Surr)	*59*		*19 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
Phenol-d5 (Surr)	*57*		*21 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
Terphenyl-d14 (Surr)	*67*		*31 - 133*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*21 - 132*	*03/11/24 10:45*	*03/11/24 22:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 17:54	1
Pyridine	<0.0370	F1 F2	0.250	0.0370	mg/L		03/15/24 07:58	03/15/24 17:54	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/15/24 07:58	03/15/24 17:54	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/15/24 07:58	03/15/24 17:54	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 17:54	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/15/24 07:58	03/15/24 17:54	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/15/24 07:58	03/15/24 17:54	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/15/24 07:58	03/15/24 17:54	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 17:54	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 17:54	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/15/24 07:58	03/15/24 17:54	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/15/24 07:58	03/15/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*30 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
2-Fluorobiphenyl (Surr)	*59*		*25 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
2-Fluorophenol (Surr)	*30*		*10 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
Terphenyl-d14 (Surr)	*72*		*35 - 131*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
Phenol-d5 (Surr)	*20*		*10 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*

Client Sample ID: Field Blank - 20240305

Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 16:22	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Field Blank - 20240305
Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 16:22	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 16:22	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 16:22	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 16:22	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 16:22	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 16:22	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 16:22	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 16:22	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:22	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 16:22	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 16:22	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 16:22	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 16:22	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 16:22	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 16:22	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 16:22	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:22	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:22	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:22	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:22	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 16:22	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 16:22	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 16:22	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 16:22	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 16:22	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 16:22	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 16:22	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 16:22	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 16:22	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 16:22	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 16:22	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 16:22	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 16:22	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 16:22	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 16:22	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 16:22	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 16:22	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 16:22	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 16:22	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 16:22	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 16:22	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 16:22	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 16:22	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 16:22	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 16:22	1

Client Sample ID: Field Blank - 20240305
Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 16:22	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 16:22	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 16:22	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:22	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 16:22	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 16:22	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 16:22	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 16:22	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 16:22	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 16:22	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 16:22	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 16:22	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 16:22	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 16:22	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 16:22	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 16:22	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 16:22	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:22	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 16:22	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 16:22	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 16:22	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/07/24 16:22*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/07/24 16:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 16:22*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/07/24 16:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.39		9.99	4.39	ug/L		03/08/24 17:25	03/09/24 18:42	1
Acenaphthylene	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Acetophenone	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
Anthracene	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Atrazine	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzaldehyde	<4.79		9.99	4.79	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[a]anthracene	<4.19		9.99	4.19	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[a]pyrene	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[b]fluoranthene	<3.10		9.99	3.10	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[g,h,i]perylene	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[k]fluoranthene	<2.90		9.99	2.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
1,1'-Biphenyl	<4.59		9.99	4.59	ug/L		03/08/24 17:25	03/09/24 18:42	1
Bis(2-chloroethoxy)methane	<1.80		9.99	1.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Bis(2-chloroethyl)ether	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
bis (2-chloroisopropyl) ether	<3.10		9.99	3.10	ug/L		03/08/24 17:25	03/09/24 18:42	1
Bis(2-ethylhexyl) phthalate	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Bromophenyl phenyl ether	<4.69		9.99	4.69	ug/L		03/08/24 17:25	03/09/24 18:42	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Field Blank - 20240305
Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Caprolactam	<2.80	*-	9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Carbazole	<1.80		9.99	1.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Chloroaniline	<0.999		20.0	0.999	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Chloro-3-methylphenol	<2.50		9.99	2.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Chloronaphthalene	<4.79		9.99	4.79	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Chlorophenol	<3.20		9.99	3.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Chlorophenyl phenyl ether	<5.29		9.99	5.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
Chrysene	<3.80		9.99	3.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Dibenz(a,h)anthracene	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Dibenzofuran	<1.90		9.99	1.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
3,3'-Dichlorobenzidine	<9.99		59.9	9.99	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dichlorophenol	<3.70		9.99	3.70	ug/L		03/08/24 17:25	03/09/24 18:42	1
Diethyl phthalate	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dimethylphenol	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Dimethyl phthalate	<2.10		9.99	2.10	ug/L		03/08/24 17:25	03/09/24 18:42	1
Di-n-butyl phthalate	<2.30		9.99	2.30	ug/L		03/08/24 17:25	03/09/24 18:42	1
4,6-Dinitro-2-methylphenol	<5.29		49.9	5.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dinitrophenol	<16.0		49.9	16.0	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dinitrotoluene	<2.30		9.99	2.30	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,6-Dinitrotoluene	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Di-n-octyl phthalate	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Fluoranthene	<1.60		9.99	1.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Fluorene	<3.40		9.99	3.40	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachlorobenzene	<1.60		9.99	1.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachlorobutadiene	<4.00		9.99	4.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachlorocyclopentadiene	<3.50		9.99	3.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachloroethane	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Indeno[1,2,3-cd]pyrene	<4.29		9.99	4.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
Isophorone	<2.00		9.99	2.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Methylnaphthalene	<4.59		9.99	4.59	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Methylphenol	<1.80		9.99	1.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
3 & 4 Methylphenol	<1.40		9.99	1.40	ug/L		03/08/24 17:25	03/09/24 18:42	1
Naphthalene	<3.50		9.99	3.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Nitroaniline	<2.90		49.9	2.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
3-Nitroaniline	<3.00		49.9	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Nitroaniline	<3.00		49.9	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Nitrobenzene	<3.50		9.99	3.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Nitrophenol	<3.90		9.99	3.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Nitrophenol	<8.09		49.9	8.09	ug/L		03/08/24 17:25	03/09/24 18:42	1
N-Nitrosodi-n-propylamine	<2.40		9.99	2.40	ug/L		03/08/24 17:25	03/09/24 18:42	1
N-Nitrosodiphenylamine	<2.90		9.99	2.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
Pentachlorophenol	<9.89		49.9	9.89	ug/L		03/08/24 17:25	03/09/24 18:42	1
Phenanthrene	<4.29		9.99	4.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
Phenol	<1.50		9.99	1.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
Pyrene	<3.70		9.99	3.70	ug/L		03/08/24 17:25	03/09/24 18:42	1
Pyridine	<7.39		49.9	7.39	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4,5-Trichlorophenol	<3.30		9.99	3.30	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4,6-Trichlorophenol	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1

Client Sample ID: Field Blank - 20240305

Lab Sample ID: 680-247630-7

Date Collected: 03/05/24 12:30
Matrix: Water
Date Received: 03/06/24 10:17

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		25 - 130	03/08/24 17:25	03/09/24 18:42	1
2-Fluorophenol (Surr)	41		10 - 130	03/08/24 17:25	03/09/24 18:42	1
Nitrobenzene-d5 (Surr)	73		30 - 130	03/08/24 17:25	03/09/24 18:42	1
Phenol-d5 (Surr)	27		10 - 130	03/08/24 17:25	03/09/24 18:42	1
Terphenyl-d14 (Surr)	93		35 - 131	03/08/24 17:25	03/09/24 18:42	1
2,4,6-Tribromophenol (Surr)	74		30 - 130	03/08/24 17:25	03/09/24 18:42	1

Client Sample ID: Equipment Blank - 20240305

Lab Sample ID: 680-247630-8

Date Collected: 03/05/24 12:40
Matrix: Water
Date Received: 03/06/24 10:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 16:44	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 16:44	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 16:44	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 16:44	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 16:44	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 16:44	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 16:44	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 16:44	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 16:44	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:44	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 16:44	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 16:44	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 16:44	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 16:44	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 16:44	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 16:44	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 16:44	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:44	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:44	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:44	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:44	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 16:44	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 16:44	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 16:44	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 16:44	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 16:44	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 16:44	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 16:44	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 16:44	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 16:44	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 16:44	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 16:44	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 16:44	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Equipment Blank - 20240305
Date Collected: 03/05/24 12:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 16:44	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 16:44	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 16:44	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 16:44	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 16:44	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 16:44	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 16:44	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 16:44	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 16:44	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 16:44	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 16:44	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 16:44	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 16:44	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 16:44	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 16:44	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 16:44	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:44	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 16:44	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 16:44	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 16:44	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 16:44	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 16:44	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 16:44	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 16:44	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 16:44	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 16:44	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 16:44	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 16:44	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 16:44	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 16:44	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:44	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 16:44	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 16:44	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 16:44	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/07/24 16:44*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/07/24 16:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 16:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/07/24 16:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.40		10.0	4.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Acetophenone	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
Anthracene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Equipment Blank - 20240305
Date Collected: 03/05/24 12:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
bis (2-chloroisopropyl) ether	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		03/08/24 17:25	03/09/24 19:09	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Caprolactam	<2.80	*-	10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Carbazole	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
Chrysene	<3.80		10.0	3.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 19:09	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Fluoranthene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Fluorene	<3.40		10.0	3.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
Isophorone	<2.00		10.0	2.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
Naphthalene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1

Client Sample ID: Equipment Blank - 20240305

Lab Sample ID: 680-247630-8

Date Collected: 03/05/24 12:40

Matrix: Water

Date Received: 03/06/24 10:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
Phenanthrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
Phenol	<1.50		10.0	1.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
Pyrene	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 19:09	1
Pyridine	<7.40		50.0	7.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
Terphenyl-d14 (Surr)	*80*		*35 - 131*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-247630-9

Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/06/24 10:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 17:06	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 17:06	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 17:06	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 17:06	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 17:06	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 17:06	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 17:06	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 17:06	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 17:06	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 17:06	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 17:06	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 17:06	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 17:06	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 17:06	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 17:06	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 17:06	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 17:06	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 17:06	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 17:06	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 17:06	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Trip Blank
Date Collected: 03/05/24 00:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 17:06	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 17:06	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 17:06	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 17:06	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 17:06	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 17:06	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 17:06	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 17:06	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 17:06	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 17:06	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 17:06	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 17:06	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 17:06	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 17:06	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 17:06	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 17:06	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 17:06	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 17:06	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 17:06	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 17:06	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 17:06	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 17:06	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 17:06	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 17:06	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 17:06	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 17:06	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 17:06	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 17:06	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 17:06	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 17:06	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 17:06	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 17:06	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 17:06	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 17:06	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 17:06	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 17:06	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 17:06	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 17:06	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 17:06	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 17:06	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 17:06	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 17:06	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 17:06	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 17:06	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 17:06	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Trip Blank

Date Collected: 03/05/24 00:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 17:06	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 17:06	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/07/24 17:06*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/07/24 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*03/07/24 17:06*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/07/24 17:06*	*1*

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

Lab Sample ID: MB 680-826226/10
Matrix: Water
Analysis Batch: 826226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 12:35	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 12:35	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 12:35	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 12:35	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 12:35	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 12:35	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 12:35	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 12:35	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 12:35	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/07/24 12:35	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 12:35	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 12:35	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/07/24 12:35	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 12:35	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 12:35	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 12:35	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 12:35	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 12:35	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 12:35	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 12:35	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 12:35	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 12:35	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 12:35	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 12:35	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 12:35	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 12:35	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 12:35	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 12:35	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1

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

Lab Sample ID: MB 680-826226/10
Matrix: Water
Analysis Batch: 826226

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			03/07/24 12:35	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 12:35	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 12:35	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 12:35	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 12:35	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 12:35	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 12:35	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 12:35	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 12:35	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 12:35	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 12:35	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 12:35	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 12:35	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 12:35	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 12:35	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/07/24 12:35	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/07/24 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/07/24 12:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/07/24 12:35*	*1*

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	222.3		ug/L		89	67 - 120
Bromobenzene	50.0	57.98		ug/L		116	70 - 130
Benzene	50.0	54.44		ug/L		109	70 - 130
Bromoform	50.0	43.09		ug/L		86	69 - 129
Bromomethane	50.0	60.78		ug/L		122	28 - 192
2-Butanone (MEK)	250	207.2		ug/L		83	69 - 120
Chlorobromomethane	50.0	54.33		ug/L		109	70 - 130
Carbon disulfide	50.0	58.73		ug/L		117	70 - 130
Carbon tetrachloride	50.0	48.67		ug/L		97	70 - 130
Chlorobenzene	50.0	53.01		ug/L		106	70 - 130

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

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	67.95		ug/L		136	31 - 213
Chloroform	50.0	49.71		ug/L		99	70 - 130
Chloromethane	50.0	64.15	*+	ug/L		128	59 - 127
2-Chlorotoluene	50.0	59.37		ug/L		119	70 - 130
4-Chlorotoluene	50.0	60.16		ug/L		120	70 - 130
Chlorodibromomethane	50.0	47.58		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	31.91	*-	ug/L		64	70 - 130
Dibromomethane	50.0	50.63		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	50.50		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	53.99		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	53.71		ug/L		107	70 - 130
Dichlorobromomethane	50.0	48.09		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	60.58		ug/L		121	70 - 130
1,1-Dichloroethane	50.0	54.54		ug/L		109	70 - 130
1,2-Dichloroethane	50.0	46.81		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	52.58		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	56.88		ug/L		114	70 - 130
1,2-Dichloropropane	50.0	54.35		ug/L		109	70 - 130
1,3-Dichloropropane	50.0	55.46		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	50.46		ug/L		101	70 - 130
1,1-Dichloropropene	50.0	55.08		ug/L		110	70 - 130
cis-1,3-Dichloropropene	50.0	52.14		ug/L		104	70 - 130
Ethylene Dibromide	50.0	54.99		ug/L		110	70 - 130
Ethylbenzene	50.0	52.80		ug/L		106	70 - 130
Hexachlorobutadiene	50.0	48.72		ug/L		97	70 - 130
2-Hexanone	250	223.8		ug/L		90	70 - 130
Iodomethane	50.0	54.46		ug/L		109	52 - 129
Isopropylbenzene	50.0	58.83		ug/L		118	70 - 130
4-Isopropyltoluene	50.0	55.99		ug/L		112	70 - 130
Methylene Chloride	50.0	51.36		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	250	238.3		ug/L		95	68 - 120
Methyl tert-butyl ether	50.0	46.49		ug/L		93	70 - 130
Naphthalene	50.0	44.30		ug/L		89	57 - 149
n-Butylbenzene	50.0	55.63		ug/L		111	70 - 130
N-Propylbenzene	50.0	58.31		ug/L		117	70 - 130
sec-Butylbenzene	50.0	57.22		ug/L		114	70 - 130
Styrene	50.0	59.39		ug/L		119	70 - 130
tert-Butylbenzene	50.0	56.30		ug/L		113	70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.97		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.19		ug/L		94	70 - 130
Tetrachloroethene	50.0	51.07		ug/L		102	70 - 130
Toluene	50.0	52.51		ug/L		105	70 - 130
trans-1,4-Dichloro-2-butene	50.0	39.29		ug/L		79	67 - 120
trans-1,2-Dichloroethene	50.0	54.14		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	51.98		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	50.0	46.68		ug/L		93	61 - 141
1,2,4-Trichlorobenzene	50.0	49.24		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	46.52		ug/L		93	70 - 130
o-Xylene	50.0	54.50		ug/L		109	70 - 130

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

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichloroethane			50.0	56.38		ug/L		113	70 - 130		
m-Xylene & p-Xylene			50.0	52.91		ug/L		106	70 - 130		
Trichloroethene			50.0	52.44		ug/L		105	70 - 130		
Trichlorofluoromethane			50.0	88.88	*+	ug/L		178	63 - 142		
1,2,3-Trichloropropane			50.0	47.80		ug/L		96	70 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.78		ug/L		110	63 - 141		
1,2,4-Trimethylbenzene			50.0	59.69		ug/L		119	70 - 130		
Hexane			50.0	60.59		ug/L		121	70 - 130		
1,3,5-Trimethylbenzene			50.0	59.29		ug/L		119	70 - 130		
n-Heptane			50.0	59.47		ug/L		119	65 - 120		
Vinyl acetate			100	76.96		ug/L		77	67 - 135		
Vinyl chloride			50.0	58.02		ug/L		116	66 - 129		
Xylenes, Total			100	107.4		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
Acetone			250	233.3		ug/L		93	67 - 120	5	30
Bromobenzene			50.0	58.81		ug/L		118	70 - 130	1	30
Benzene			50.0	54.44		ug/L		109	70 - 130	0	30
Bromoform			50.0	44.96		ug/L		90	69 - 129	4	30
Bromomethane			50.0	60.16		ug/L		120	28 - 192	1	30
2-Butanone (MEK)			250	214.2		ug/L		86	69 - 120	3	30
Chlorobromomethane			50.0	54.32		ug/L		109	70 - 130	0	30
Carbon disulfide			50.0	57.86		ug/L		116	70 - 130	1	30
Carbon tetrachloride			50.0	49.28		ug/L		99	70 - 130	1	30
Chlorobenzene			50.0	53.00		ug/L		106	70 - 130	0	30
Chloroethane			50.0	66.75		ug/L		134	31 - 213	2	30
Chloroform			50.0	49.41		ug/L		99	70 - 130	1	30
Chloromethane			50.0	64.80	*+	ug/L		130	59 - 127	1	30
2-Chlorotoluene			50.0	59.72		ug/L		119	70 - 130	1	30
4-Chlorotoluene			50.0	60.35		ug/L		121	70 - 130	0	30
Chlorodibromomethane			50.0	48.63		ug/L		97	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	33.22	*-	ug/L		66	70 - 130	4	30
Dibromomethane			50.0	51.52		ug/L		103	70 - 130	2	30
1,2-Dichlorobenzene			50.0	50.96		ug/L		102	70 - 130	1	30
1,3-Dichlorobenzene			50.0	54.70		ug/L		109	70 - 130	1	30
1,4-Dichlorobenzene			50.0	53.67		ug/L		107	70 - 130	0	30
Dichlorobromomethane			50.0	48.43		ug/L		97	70 - 130	1	30
Dichlorodifluoromethane			50.0	60.83		ug/L		122	70 - 130	0	40

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

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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-Dichloroethane			50.0	53.89		ug/L		108	70 - 130	1	30
1,2-Dichloroethane			50.0	47.30		ug/L		95	70 - 130	1	50
cis-1,2-Dichloroethene			50.0	51.77		ug/L		104	70 - 130	2	30
1,1-Dichloroethene			50.0	55.88		ug/L		112	70 - 130	2	20
1,2-Dichloropropane			50.0	54.38		ug/L		109	70 - 130	0	20
1,3-Dichloropropane			50.0	56.67		ug/L		113	70 - 130	2	20
2,2-Dichloropropane			50.0	49.32		ug/L		99	70 - 130	2	20
1,1-Dichloropropene			50.0	54.45		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene			50.0	53.23		ug/L		106	70 - 130	2	20
Ethylene Dibromide			50.0	57.01		ug/L		114	70 - 130	4	30
Ethylbenzene			50.0	52.13		ug/L		104	70 - 130	1	20
Hexachlorobutadiene			50.0	48.73		ug/L		97	70 - 130	0	20
2-Hexanone			250	232.2		ug/L		93	70 - 130	4	20
Iodomethane			50.0	53.03		ug/L		106	52 - 129	3	30
Isopropylbenzene			50.0	58.55		ug/L		117	70 - 130	0	30
4-Isopropyltoluene			50.0	56.12		ug/L		112	70 - 130	0	30
Methylene Chloride			50.0	50.39		ug/L		101	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			250	248.5		ug/L		99	68 - 120	4	30
Methyl tert-butyl ether			50.0	47.68		ug/L		95	70 - 130	3	30
Naphthalene			50.0	45.40		ug/L		91	57 - 149	2	30
n-Butylbenzene			50.0	55.50		ug/L		111	70 - 130	0	30
N-Propylbenzene			50.0	57.31		ug/L		115	70 - 130	2	30
sec-Butylbenzene			50.0	56.83		ug/L		114	70 - 130	1	30
Styrene			50.0	59.57		ug/L		119	70 - 130	0	30
tert-Butylbenzene			50.0	56.09		ug/L		112	70 - 130	0	30
1,1,1,2-Tetrachloroethane			50.0	46.91		ug/L		94	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	48.25		ug/L		96	70 - 130	2	30
Tetrachloroethene			50.0	50.22		ug/L		100	70 - 130	2	30
Toluene			50.0	52.29		ug/L		105	70 - 130	0	30
trans-1,4-Dichloro-2-butene			50.0	41.60		ug/L		83	67 - 120	6	30
trans-1,2-Dichloroethene			50.0	53.70		ug/L		107	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	52.45		ug/L		105	70 - 130	1	30
1,2,3-Trichlorobenzene			50.0	46.83		ug/L		94	61 - 141	0	30
1,2,4-Trichlorobenzene			50.0	48.87		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane			50.0	46.09		ug/L		92	70 - 130	1	30
o-Xylene			50.0	54.20		ug/L		108	70 - 130	1	30
1,1,2-Trichloroethane			50.0	57.92		ug/L		116	70 - 130	3	30
m-Xylene & p-Xylene			50.0	52.30		ug/L		105	70 - 130	1	30
Trichloroethene			50.0	52.14		ug/L		104	70 - 130	1	30
Trichlorofluoromethane			50.0	88.06	*+	ug/L		176	63 - 142	1	30
1,2,3-Trichloropropane			50.0	48.97		ug/L		98	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.75		ug/L		107	63 - 141	2	30
1,2,4-Trimethylbenzene			50.0	60.23		ug/L		120	70 - 130	1	30
Hexane			50.0	59.55		ug/L		119	70 - 130	2	30
1,3,5-Trimethylbenzene			50.0	60.57		ug/L		121	70 - 130	2	30
n-Heptane			50.0	58.75		ug/L		117	65 - 120	1	30
Vinyl acetate			100	72.88		ug/L		73	67 - 135	5	30
Vinyl chloride			50.0	70.41	*+	ug/L		141	66 - 129	19	30

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

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
Xylenes, Total			100	106.5		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 680-827731/11
Matrix: Solid
Analysis Batch: 827731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/15/24 13:36	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/15/24 13:36	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/15/24 13:36	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/15/24 13:36	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/15/24 13:36	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/15/24 13:36	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/15/24 13:36	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/15/24 13:36	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/15/24 13:36	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*113*		*70 - 130*		*03/15/24 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*03/15/24 13:36*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*03/15/24 13:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*03/15/24 13:36*	*1*

Lab Sample ID: LCS 680-827731/4
Matrix: Solid
Analysis Batch: 827731

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04927		mg/L		99	70 - 130		
2-Butanone (MEK)			0.250	0.2461		mg/L		98	69 - 114		
Carbon tetrachloride			0.0500	0.04944		mg/L		99	70 - 130		
Chlorobenzene			0.0500	0.04977		mg/L		100	70 - 130		
Chloroform			0.0500	0.04748		mg/L		95	70 - 130		
1,4-Dichlorobenzene			0.0500	0.04697		mg/L		94	70 - 130		
1,2-Dichloroethane			0.0500	0.05332		mg/L		107	70 - 130		
1,1-Dichloroethene			0.0500	0.05115		mg/L		102	70 - 130		
Hexachlorobutadiene			0.0500	0.05126		mg/L		103	70 - 130		
Tetrachloroethene			0.0500	0.05079		mg/L		102	70 - 130		
Trichloroethene			0.0500	0.04679		mg/L		94	70 - 130		

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

Lab Sample ID: LCS 680-827731/4
Matrix: Solid
Analysis Batch: 827731

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			0.0500	0.05935		mg/L		119	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-827731/5
Matrix: Solid
Analysis Batch: 827731

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
Benzene			0.0500	0.04911		mg/L		98	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2489		mg/L		100	69 - 114	1	30
Carbon tetrachloride			0.0500	0.05032		mg/L		101	70 - 130	2	30
Chlorobenzene			0.0500	0.04892		mg/L		98	70 - 130	2	30
Chloroform			0.0500	0.04804		mg/L		96	70 - 130	1	30
1,4-Dichlorobenzene			0.0500	0.04853		mg/L		97	70 - 130	3	30
1,2-Dichloroethane			0.0500	0.05232		mg/L		105	70 - 130	2	50
1,1-Dichloroethene			0.0500	0.05096		mg/L		102	70 - 130	0	20
Hexachlorobutadiene			0.0500	0.05449		mg/L		109	70 - 130	6	20
Tetrachloroethene			0.0500	0.05221		mg/L		104	70 - 130	3	30
Trichloroethene			0.0500	0.04975		mg/L		99	70 - 130	6	30
Vinyl chloride			0.0500	0.06193		mg/L		124	66 - 129	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 680-827735/9
Matrix: Solid
Analysis Batch: 827735

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/15/24 12:40	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/15/24 12:40	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/15/24 12:40	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/15/24 12:40	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/15/24 12:40	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/15/24 12:40	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/15/24 12:40	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/15/24 12:40	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/15/24 12:40	1

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

Lab Sample ID: MB 680-827735/9
Matrix: Solid
Analysis Batch: 827735

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*03/15/24 12:40*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/15/24 12:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/24 12:40*	*1*

Lab Sample ID: LCS 680-827735/4
Matrix: Solid
Analysis Batch: 827735

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05357		mg/L		107	70 - 130		
2-Butanone (MEK)			0.250	0.2487		mg/L		99	69 - 114		
Carbon tetrachloride			0.0500	0.04808		mg/L		96	70 - 130		
Chlorobenzene			0.0500	0.05236		mg/L		105	70 - 130		
Chloroform			0.0500	0.04596		mg/L		92	70 - 130		
1,4-Dichlorobenzene			0.0500	0.04993		mg/L		100	70 - 130		
1,2-Dichloroethane			0.0500	0.04787		mg/L		96	70 - 130		
1,1-Dichloroethene			0.0500	0.05208		mg/L		104	70 - 130		
Hexachlorobutadiene			0.0500	0.05002		mg/L		100	70 - 130		
Tetrachloroethene			0.0500	0.04767		mg/L		95	70 - 130		
Trichloroethene			0.0500	0.04963		mg/L		99	70 - 130		
Vinyl chloride			0.0250	0.04735	*+	mg/L		189	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*86*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
Dibromofluoromethane (Surr)	*85*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 680-827735/5
Matrix: Solid
Analysis Batch: 827735

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
Benzene			0.0500	0.05345		mg/L		107	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2648		mg/L		106	69 - 114	6	30
Carbon tetrachloride			0.0500	0.04849		mg/L		97	70 - 130	1	30
Chlorobenzene			0.0500	0.05185		mg/L		104	70 - 130	1	30
Chloroform			0.0500	0.04747		mg/L		95	70 - 130	3	30
1,4-Dichlorobenzene			0.0500	0.05098		mg/L		102	70 - 130	2	30
1,2-Dichloroethane			0.0500	0.04964		mg/L		99	70 - 130	4	50
1,1-Dichloroethene			0.0500	0.05230		mg/L		105	70 - 130	0	20
Hexachlorobutadiene			0.0500	0.04903		mg/L		98	70 - 130	2	20
Tetrachloroethene			0.0500	0.04793		mg/L		96	70 - 130	1	30
Trichloroethene			0.0500	0.05065		mg/L		101	70 - 130	2	30

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

Lab Sample ID: LCSD 680-827735/5
Matrix: Solid
Analysis Batch: 827735

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
Vinyl chloride			0.0250	0.04696	*+	mg/L		188	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*87*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
Dibromofluoromethane (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 680-827981/8
Matrix: Solid
Analysis Batch: 827981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/17/24 13:45	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/17/24 13:45	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/17/24 13:45	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/17/24 13:45	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/17/24 13:45	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/17/24 13:45	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/17/24 13:45	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/17/24 13:45	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/17/24 13:45	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/17/24 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*03/17/24 13:45*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/17/24 13:45*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/17/24 13:45*	*1*

Lab Sample ID: LCS 680-827981/4
Matrix: Solid
Analysis Batch: 827981

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04954		mg/L		99	70 - 130		
2-Butanone (MEK)			0.250	0.2791		mg/L		112	69 - 114		
Carbon tetrachloride			0.0500	0.04837		mg/L		97	70 - 130		
Chlorobenzene			0.0500	0.05235		mg/L		105	70 - 130		
Chloroform			0.0500	0.05204		mg/L		104	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05169		mg/L		103	70 - 130		
1,2-Dichloroethane			0.0500	0.05160		mg/L		103	70 - 130		
1,1-Dichloroethene			0.0500	0.04959		mg/L		99	70 - 130		
Hexachlorobutadiene			0.0500	0.05118		mg/L		102	70 - 130		
Tetrachloroethene			0.0500	0.04972		mg/L		99	70 - 130		
Trichloroethene			0.0500	0.05065		mg/L		101	70 - 130		

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

Lab Sample ID: LCS 680-827981/4
Matrix: Solid
Analysis Batch: 827981

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			0.0500	0.05265		mg/L		105	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-827981/5
Matrix: Solid
Analysis Batch: 827981

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
Benzene			0.0500	0.05072		mg/L		101	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2990	*+	mg/L		120	69 - 114	7	30
Carbon tetrachloride			0.0500	0.04834		mg/L		97	70 - 130	0	30
Chlorobenzene			0.0500	0.05101		mg/L		102	70 - 130	3	30
Chloroform			0.0500	0.05267		mg/L		105	70 - 130	1	30
1,4-Dichlorobenzene			0.0500	0.05002		mg/L		100	70 - 130	3	30
1,2-Dichloroethane			0.0500	0.05315		mg/L		106	70 - 130	3	50
1,1-Dichloroethene			0.0500	0.04997		mg/L		100	70 - 130	1	20
Hexachlorobutadiene			0.0500	0.04994		mg/L		100	70 - 130	2	20
Tetrachloroethene			0.0500	0.04884		mg/L		98	70 - 130	2	30
Trichloroethene			0.0500	0.05188		mg/L		104	70 - 130	2	30
Vinyl chloride			0.0500	0.05178		mg/L		104	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-827987/8
Matrix: Solid
Analysis Batch: 827987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/17/24 13:12	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/17/24 13:12	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/17/24 13:12	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/17/24 13:12	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:12	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/17/24 13:12	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:12	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/17/24 13:12	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/17/24 13:12	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/17/24 13:12	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/17/24 13:12	1

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

Lab Sample ID: MB 680-827987/8
Matrix: Solid
Analysis Batch: 827987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/17/24 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*03/17/24 13:12*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*03/17/24 13:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/17/24 13:12*	*1*

Lab Sample ID: LCS 680-827987/4
Matrix: Solid
Analysis Batch: 827987

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05288		mg/L		106	70 - 130		
2-Butanone (MEK)			0.250	0.2400		mg/L		96	69 - 114		
Carbon tetrachloride			0.0500	0.04708		mg/L		94	70 - 130		
Chlorobenzene			0.0500	0.05214		mg/L		104	70 - 130		
Chloroform			0.0500	0.04525		mg/L		91	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05181		mg/L		104	70 - 130		
1,2-Dichloroethane			0.0500	0.04612		mg/L		92	70 - 130		
1,1-Dichloroethene			0.0500	0.05279		mg/L		106	70 - 130		
Hexachlorobutadiene			0.0500	0.05003		mg/L		100	70 - 130		
Tetrachloroethene			0.0500	0.04680		mg/L		94	70 - 130		
Trichloroethene			0.0500	0.04996		mg/L		100	70 - 130		
Vinyl chloride			0.0500	0.04747		mg/L		95	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*84*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 680-827987/5
Matrix: Solid
Analysis Batch: 827987

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
Benzene			0.0500	0.05275		mg/L		106	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2488		mg/L		100	69 - 114	4	30
Carbon tetrachloride			0.0500	0.04733		mg/L		95	70 - 130	1	30
Chlorobenzene			0.0500	0.05146		mg/L		103	70 - 130	1	30
Chloroform			0.0500	0.04628		mg/L		93	70 - 130	2	30
1,4-Dichlorobenzene			0.0500	0.05099		mg/L		102	70 - 130	2	30
1,2-Dichloroethane			0.0500	0.04735		mg/L		95	70 - 130	3	50
1,1-Dichloroethene			0.0500	0.05256		mg/L		105	70 - 130	0	20
Hexachlorobutadiene			0.0500	0.05072		mg/L		101	70 - 130	1	20
Tetrachloroethene			0.0500	0.04691		mg/L		94	70 - 130	0	30
Trichloroethene			0.0500	0.04964		mg/L		99	70 - 130	1	30

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

Lab Sample ID: LCSD 680-827987/5
Matrix: Solid
Analysis Batch: 827987

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
Vinyl chloride			0.0500	0.04639		mg/L		93	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*85*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Dibromofluoromethane (Surr)	*85*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 680-828063/9
Matrix: Solid
Analysis Batch: 828063

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/18/24 12:34	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/18/24 12:34	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/18/24 12:34	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/18/24 12:34	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/18/24 12:34	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/18/24 12:34	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/18/24 12:34	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/18/24 12:34	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/18/24 12:34	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/18/24 12:34	1

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

Lab Sample ID: MB 680-828063/9
Matrix: Solid
Analysis Batch: 828063

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/18/24 12:34	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/18/24 12:34	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/18/24 12:34	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/18/24 12:34	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/18/24 12:34	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/18/24 12:34	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/18/24 12:34	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/18/24 12:34	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/18/24 12:34	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/18/24 12:34	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/18/24 12:34	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/18/24 12:34	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/18/24 12:34	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/18/24 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/18/24 12:34	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/18/24 12:34	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/18/24 12:34	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/18/24 12:34	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/18/24 12:34	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/18/24 12:34	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/18/24 12:34	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/18/24 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*65 - 130*		*03/18/24 12:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*65 - 130*		*03/18/24 12:34*	*1*
Dibromofluoromethane (Surr)	*120*		*65 - 130*		*03/18/24 12:34*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*		*03/18/24 12:34*	*1*

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

Lab Sample ID: LCS 680-828063/5
Matrix: Solid
Analysis Batch: 828063

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2473		mg/Kg		99	10 - 150
Bromobenzene	0.0500	0.04742		mg/Kg		95	70 - 130
Benzene	0.0500	0.05034		mg/Kg		101	70 - 130
Bromoform	0.0500	0.04076		mg/Kg		82	68 - 130
Bromomethane	0.0500	0.07823	*+	mg/Kg		156	70 - 130
2-Butanone (MEK)	0.250	0.2613		mg/Kg		105	40 - 150
Chlorobromomethane	0.0500	0.05375		mg/Kg		108	66 - 130
Carbon disulfide	0.0500	0.05581		mg/Kg		112	70 - 130
Carbon tetrachloride	0.0500	0.05354		mg/Kg		107	70 - 130
Chlorobenzene	0.0500	0.04748		mg/Kg		95	70 - 130
Chloroethane	0.0500	0.06999	*+	mg/Kg		140	70 - 130
Chloroform	0.0500	0.04873		mg/Kg		97	70 - 130
Chloromethane	0.0500	0.05534		mg/Kg		111	70 - 130
2-Chlorotoluene	0.0500	0.05013		mg/Kg		100	70 - 130
4-Chlorotoluene	0.0500	0.04964		mg/Kg		99	70 - 130
Chlorodibromomethane	0.0500	0.04619		mg/Kg		92	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.03848		mg/Kg		77	42 - 145
Dibromomethane	0.0500	0.05077		mg/Kg		102	59 - 142
1,2-Dichlorobenzene	0.0500	0.04788		mg/Kg		96	70 - 130
1,3-Dichlorobenzene	0.0500	0.04945		mg/Kg		99	70 - 130
1,4-Dichlorobenzene	0.0500	0.04909		mg/Kg		98	70 - 130
Dichlorobromomethane	0.0500	0.04923		mg/Kg		98	70 - 130
Dichlorodifluoromethane	0.0500	0.06140		mg/Kg		123	43 - 131
1,1-Dichloroethane	0.0500	0.05241		mg/Kg		105	70 - 130
1,2-Dichloroethane	0.0500	0.05377		mg/Kg		108	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04683		mg/Kg		94	70 - 130
1,1-Dichloroethene	0.0500	0.05136		mg/Kg		103	69 - 130
1,2-Dichloropropane	0.0500	0.04915		mg/Kg		98	70 - 130
1,3-Dichloropropane	0.0500	0.04859		mg/Kg		97	54 - 150
2,2-Dichloropropane	0.0500	0.05361		mg/Kg		107	70 - 130
1,1-Dichloropropene	0.0500	0.05070		mg/Kg		101	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04890		mg/Kg		98	70 - 130
Ethylene Dibromide	0.0500	0.04697		mg/Kg		94	48 - 150
Ethylbenzene	0.0500	0.05079		mg/Kg		102	70 - 130
Hexachlorobutadiene	0.0500	0.04867		mg/Kg		97	70 - 130
2-Hexanone	0.250	0.2636		mg/Kg		105	30 - 150
Iodomethane	0.0500	0.05725		mg/Kg		114	65 - 138
Isopropylbenzene	0.0500	0.05128		mg/Kg		103	70 - 130
4-Isopropyltoluene	0.0500	0.05385		mg/Kg		108	70 - 130
Methylene Chloride	0.0500	0.05193		mg/Kg		104	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2503		mg/Kg		100	34 - 150
Methyl tert-butyl ether	0.0500	0.04861		mg/Kg		97	70 - 130
Naphthalene	0.0500	0.04092		mg/Kg		82	46 - 150
n-Butylbenzene	0.0500	0.05511		mg/Kg		110	70 - 130
N-Propylbenzene	0.0500	0.05215		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0500	0.05301		mg/Kg		106	69 - 142
Styrene	0.0500	0.04943		mg/Kg		99	70 - 130
tert-Butylbenzene	0.0500	0.05163		mg/Kg		103	67 - 145

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

Lab Sample ID: LCS 680-828063/5
Matrix: Solid
Analysis Batch: 828063

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	0.0500	0.04429		mg/Kg		89	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04591		mg/Kg		92	64 - 130
Tetrachloroethene	0.0500	0.04883		mg/Kg		98	70 - 130
Toluene	0.0500	0.05045		mg/Kg		101	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04717		mg/Kg		94	54 - 150
trans-1,2-Dichloroethene	0.0500	0.04632		mg/Kg		93	67 - 130
trans-1,3-Dichloropropene	0.0500	0.04782		mg/Kg		96	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04380		mg/Kg		88	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04492		mg/Kg		90	70 - 130
1,1,1-Trichloroethane	0.0500	0.05287		mg/Kg		106	70 - 130
o-Xylene	0.0500	0.04909		mg/Kg		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04810		mg/Kg		96	56 - 146
m-Xylene & p-Xylene	0.0500	0.04996		mg/Kg		100	70 - 130
Trichloroethene	0.0500	0.04733		mg/Kg		95	70 - 130
Trichlorofluoromethane	0.0500	0.05720		mg/Kg		114	70 - 130
1,2,3-Trichloropropane	0.0500	0.04475		mg/Kg		89	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05188		mg/Kg		104	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05221		mg/Kg		104	70 - 130
Hexane	0.0500	0.05344		mg/Kg		107	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05193		mg/Kg		104	70 - 130
n-Heptane	0.0500	0.05271		mg/Kg		105	70 - 130
Vinyl acetate	0.100	0.1167		mg/Kg		117	53 - 150
Vinyl chloride	0.0500	0.05617		mg/Kg		112	70 - 130
Xylenes, Total	0.100	0.09905		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*
Dibromofluoromethane (Surr)	*92*		*65 - 130*
4-Bromofluorobenzene (Surr)	*97*		*65 - 130*

Lab Sample ID: LCSD 680-828063/6
Matrix: Solid
Analysis Batch: 828063

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
Acetone	0.250	0.2942		mg/Kg		118	10 - 150	17	50
Bromobenzene	0.0500	0.04889		mg/Kg		98	70 - 130	3	30
Benzene	0.0500	0.05477		mg/Kg		110	70 - 130	8	30
Bromoform	0.0500	0.04484		mg/Kg		90	68 - 130	10	30
Bromomethane	0.0500	0.06334		mg/Kg		127	70 - 130	21	30
2-Butanone (MEK)	0.250	0.2982		mg/Kg		119	40 - 150	13	30
Chlorobromomethane	0.0500	0.05803		mg/Kg		116	66 - 130	8	30
Carbon disulfide	0.0500	0.05865		mg/Kg		117	70 - 130	5	30
Carbon tetrachloride	0.0500	0.05662		mg/Kg		113	70 - 130	6	30
Chlorobenzene	0.0500	0.05015		mg/Kg		100	70 - 130	5	30
Chloroethane	0.0500	0.05417		mg/Kg		108	70 - 130	25	30
Chloroform	0.0500	0.05381		mg/Kg		108	70 - 130	10	30

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

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

Lab Sample ID: LCSD 680-828063/6
Matrix: Solid
Analysis Batch: 828063

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
Chloromethane	0.0500	0.04974		mg/Kg		99	70 - 130	11	30
2-Chlorotoluene	0.0500	0.05013		mg/Kg		100	70 - 130	0	30
4-Chlorotoluene	0.0500	0.05092		mg/Kg		102	70 - 130	3	30
Chlorodibromomethane	0.0500	0.05252		mg/Kg		105	64 - 133	13	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04675		mg/Kg		93	42 - 145	19	30
Dibromomethane	0.0500	0.05516		mg/Kg		110	59 - 142	8	30
1,2-Dichlorobenzene	0.0500	0.05420		mg/Kg		108	70 - 130	12	30
1,3-Dichlorobenzene	0.0500	0.05403		mg/Kg		108	70 - 130	9	30
1,4-Dichlorobenzene	0.0500	0.05379		mg/Kg		108	70 - 130	9	30
Dichlorobromomethane	0.0500	0.05563		mg/Kg		111	70 - 130	12	30
Dichlorodifluoromethane	0.0500	0.05355		mg/Kg		107	43 - 131	14	30
1,1-Dichloroethane	0.0500	0.05723		mg/Kg		114	70 - 130	9	30
1,2-Dichloroethane	0.0500	0.05865		mg/Kg		117	68 - 139	9	30
cis-1,2-Dichloroethene	0.0500	0.05196		mg/Kg		104	70 - 130	10	30
1,1-Dichloroethene	0.0500	0.05631		mg/Kg		113	69 - 130	9	50
1,2-Dichloropropane	0.0500	0.05525		mg/Kg		110	70 - 130	12	30
1,3-Dichloropropane	0.0500	0.05489		mg/Kg		110	54 - 150	12	30
2,2-Dichloropropane	0.0500	0.05729		mg/Kg		115	70 - 130	7	30
1,1-Dichloropropene	0.0500	0.05347		mg/Kg		107	70 - 130	5	30
cis-1,3-Dichloropropene	0.0500	0.05451		mg/Kg		109	70 - 130	11	30
Ethylene Dibromide	0.0500	0.05230		mg/Kg		105	48 - 150	11	30
Ethylbenzene	0.0500	0.05176		mg/Kg		104	70 - 130	2	30
Hexachlorobutadiene	0.0500	0.04779		mg/Kg		96	70 - 130	2	30
2-Hexanone	0.250	0.2890		mg/Kg		116	30 - 150	9	30
Iodomethane	0.0500	0.06104		mg/Kg		122	65 - 138	6	30
Isopropylbenzene	0.0500	0.05046		mg/Kg		101	70 - 130	2	30
4-Isopropyltoluene	0.0500	0.05551		mg/Kg		111	70 - 130	3	30
Methylene Chloride	0.0500	0.05704		mg/Kg		114	54 - 149	9	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2855		mg/Kg		114	34 - 150	13	30
Methyl tert-butyl ether	0.0500	0.05606		mg/Kg		112	70 - 130	14	30
Naphthalene	0.0500	0.04542		mg/Kg		91	46 - 150	10	30
n-Butylbenzene	0.0500	0.05625		mg/Kg		112	70 - 130	2	30
N-Propylbenzene	0.0500	0.04977		mg/Kg		100	70 - 130	5	30
sec-Butylbenzene	0.0500	0.05150		mg/Kg		103	69 - 142	3	30
Styrene	0.0500	0.05183		mg/Kg		104	70 - 130	5	30
tert-Butylbenzene	0.0500	0.05134		mg/Kg		103	67 - 145	1	30
1,1,1,2-Tetrachloroethane	0.0500	0.04865		mg/Kg		97	70 - 130	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.05071		mg/Kg		101	64 - 130	10	30
Tetrachloroethene	0.0500	0.05048		mg/Kg		101	70 - 130	3	30
Toluene	0.0500	0.05340		mg/Kg		107	70 - 130	6	30
trans-1,4-Dichloro-2-butene	0.0500	0.05009		mg/Kg		100	54 - 150	6	30
trans-1,2-Dichloroethene	0.0500	0.04973		mg/Kg		99	67 - 130	7	30
trans-1,3-Dichloropropene	0.0500	0.05537		mg/Kg		111	54 - 150	15	30
1,2,3-Trichlorobenzene	0.0500	0.04910		mg/Kg		98	70 - 130	11	30
1,2,4-Trichlorobenzene	0.0500	0.04897		mg/Kg		98	70 - 130	9	30
1,1,1-Trichloroethane	0.0500	0.05747		mg/Kg		115	70 - 130	8	30
o-Xylene	0.0500	0.05138		mg/Kg		103	70 - 130	5	30
1,1,2-Trichloroethane	0.0500	0.05404		mg/Kg		108	56 - 146	12	30
m-Xylene & p-Xylene	0.0500	0.05101		mg/Kg		102	70 - 130	2	30

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

Lab Sample ID: LCSD 680-828063/6
Matrix: Solid
Analysis Batch: 828063

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
Trichloroethene			0.0500	0.05010		mg/Kg		100	70 - 130	6	30
Trichlorofluoromethane			0.0500	0.05293		mg/Kg		106	70 - 130	8	30
1,2,3-Trichloropropane			0.0500	0.05148		mg/Kg		103	64 - 130	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05422		mg/Kg		108	70 - 130	4	40
1,2,4-Trimethylbenzene			0.0500	0.05243		mg/Kg		105	70 - 130	0	30
Hexane			0.0500	0.05571		mg/Kg		111	70 - 130	4	30
1,3,5-Trimethylbenzene			0.0500	0.05192		mg/Kg		104	70 - 130	0	30
n-Heptane			0.0500	0.05421		mg/Kg		108	70 - 130	3	30
Vinyl acetate			0.100	0.1307		mg/Kg		131	53 - 150	11	30
Vinyl chloride			0.0500	0.04939		mg/Kg		99	70 - 130	13	30
Xylenes, Total			0.100	0.1024		mg/Kg		102	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 130*
Dibromofluoromethane (Surr)	*105*		*65 - 130*
4-Bromofluorobenzene (Surr)	*107*		*65 - 130*

Lab Sample ID: LB 680-827405/1-A
Matrix: Solid
Analysis Batch: 827735

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 13:32	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 13:32	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 13:32	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 13:32	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 13:32	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 13:32	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 13:32	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 13:32	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 13:32	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/15/24 13:32*	*20*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*03/15/24 13:32*	*20*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/15/24 13:32*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/24 13:32*	*20*

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

Lab Sample ID: LB 680-827653/1-A
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 14:24	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/17/24 14:24	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 14:24	20
Chlorobenzene	0.005402	J	0.0200	0.00520	mg/L			03/17/24 14:24	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 14:24	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 14:24	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 14:24	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 14:24	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 14:24	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/17/24 14:24*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*03/17/24 14:24*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/17/24 14:24*	*20*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/17/24 14:24*	*20*

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

Lab Sample ID: MB 680-826629/1-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.40		10.0	4.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Acetophenone	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
Anthracene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Atrazine	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
bis (2-chloroisopropyl) ether	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		03/08/24 17:25	03/09/24 14:46	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Caprolactam	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Carbazole	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		03/08/24 17:25	03/09/24 14:46	1

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

Lab Sample ID: MB 680-826629/1-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
Chrysene	<3.80		10.0	3.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 14:46	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Fluoranthene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Fluorene	<3.40		10.0	3.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
Isophorone	<2.00		10.0	2.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
Naphthalene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
Phenanthrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
Phenol	<1.50		10.0	1.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
Pyrene	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 14:46	1
Pyridine	<7.40		50.0	7.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*25 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*

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

Lab Sample ID: MB 680-826629/1-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		30 - 130	03/08/24 17:25	03/09/24 14:46	1
Phenol-d5 (Surr)	30		10 - 130	03/08/24 17:25	03/09/24 14:46	1
Terphenyl-d14 (Surr)	92		35 - 131	03/08/24 17:25	03/09/24 14:46	1
2,4,6-Tribromophenol (Surr)	73		30 - 130	03/08/24 17:25	03/09/24 14:46	1

Lab Sample ID: LCS 680-826629/2-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	200	155.0		ug/L		78	48 - 130
Acenaphthylene	200	142.6		ug/L		71	48 - 130
Acetophenone	200	137.6		ug/L		69	44 - 130
Anthracene	200	171.9		ug/L		86	49 - 130
Atrazine	200	167.9		ug/L		84	39 - 130
Benzaldehyde	200	123.2		ug/L		62	14 - 130
Benzo[a]anthracene	200	168.3		ug/L		84	44 - 130
Benzo[a]pyrene	200	174.6		ug/L		87	44 - 130
Benzo[b]fluoranthene	200	183.0		ug/L		92	43 - 130
Benzo[g,h,i]perylene	200	173.1		ug/L		87	41 - 130
Benzo[k]fluoranthene	200	183.9		ug/L		92	40 - 130
1,1'-Biphenyl	200	140.0		ug/L		70	45 - 130
Bis(2-chloroethoxy)methane	200	135.5		ug/L		68	47 - 130
Bis(2-chloroethyl)ether	200	128.5		ug/L		64	32 - 130
bis (2-chloroisopropyl) ether	200	136.9		ug/L		68	26 - 130
Bis(2-ethylhexyl) phthalate	200	164.7		ug/L		82	45 - 130
4-Bromophenyl phenyl ether	200	149.9		ug/L		75	47 - 130
Butyl benzyl phthalate	200	167.1		ug/L		84	50 - 130
Caprolactam	200	48.46	*-	ug/L		24	26 - 130
Carbazole	200	167.3		ug/L		84	54 - 130
4-Chloroaniline	200	129.1		ug/L		65	42 - 130
4-Chloro-3-methylphenol	200	152.8		ug/L		76	47 - 130
2-Chloronaphthalene	200	137.2		ug/L		69	44 - 130
2-Chlorophenol	200	114.3		ug/L		57	39 - 130
4-Chlorophenyl phenyl ether	200	144.3		ug/L		72	45 - 130
Chrysene	200	176.7		ug/L		88	47 - 130
Dibenz(a,h)anthracene	200	177.2		ug/L		89	41 - 130
Dibenzofuran	200	144.5		ug/L		72	50 - 130
3,3'-Dichlorobenzidine	200	154.7		ug/L		77	46 - 130
2,4-Dichlorophenol	200	129.1		ug/L		65	44 - 130
Diethyl phthalate	200	172.8		ug/L		86	53 - 130
2,4-Dimethylphenol	200	122.1		ug/L		61	37 - 130
Dimethyl phthalate	200	162.8		ug/L		81	53 - 130
Di-n-butyl phthalate	200	173.6		ug/L		87	51 - 130
4,6-Dinitro-2-methylphenol	400	329.5		ug/L		82	42 - 130
2,4-Dinitrophenol	400	280.5		ug/L		70	31 - 130
2,4-Dinitrotoluene	200	162.5		ug/L		81	52 - 130
2,6-Dinitrotoluene	200	158.9		ug/L		79	52 - 130

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

Lab Sample ID: LCS 680-826629/2-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	200	153.8		ug/L		77	42 - 130
Fluoranthene	200	159.3		ug/L		80	47 - 130
Fluorene	200	152.0		ug/L		76	50 - 130
Hexachlorobenzene	200	162.6		ug/L		81	43 - 130
Hexachlorobutadiene	200	113.8		ug/L		57	27 - 130
Hexachlorocyclopentadiene	200	67.03		ug/L		34	11 - 130
Hexachloroethane	200	117.6		ug/L		59	29 - 130
Indeno[1,2,3-cd]pyrene	200	154.2		ug/L		77	31 - 130
Isophorone	200	148.4		ug/L		74	47 - 130
2-Methylnaphthalene	200	130.6		ug/L		65	40 - 130
2-Methylphenol	200	110.4		ug/L		55	40 - 130
3 & 4 Methylphenol	200	107.8		ug/L		54	42 - 130
Naphthalene	200	127.8		ug/L		64	39 - 130
2-Nitroaniline	200	186.5		ug/L		93	51 - 130
3-Nitroaniline	200	161.4		ug/L		81	53 - 130
4-Nitroaniline	200	176.3		ug/L		88	49 - 130
Nitrobenzene	200	135.2		ug/L		68	43 - 130
2-Nitrophenol	200	113.6		ug/L		57	43 - 130
4-Nitrophenol	400	170.7		ug/L		43	13 - 130
N-Nitrosodi-n-propylamine	200	143.0		ug/L		71	42 - 130
N-Nitrosodiphenylamine	200	158.2		ug/L		79	50 - 130
Pentachlorophenol	400	363.1		ug/L		91	33 - 130
Phenanthrene	200	172.9		ug/L		86	51 - 130
Phenol	200	58.87		ug/L		29	14 - 130
Pyrene	200	166.8		ug/L		83	52 - 130
Pyridine	400	54.67		ug/L		14	10 - 130
2,4,5-Trichlorophenol	200	140.6		ug/L		70	48 - 130
2,4,6-Trichlorophenol	200	137.1		ug/L		69	47 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*
Phenol-d5 (Surr)	*26*		*10 - 130*
Terphenyl-d14 (Surr)	*79*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Acenaphthylene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Acetophenone	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Anthracene	<0.0244		0.322	0.0244	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Atrazine	<0.0224		0.322	0.0224	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzaldehyde	<0.0566		0.322	0.0566	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

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

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[a]pyrene	<0.0507		0.322	0.0507	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[b]fluoranthene	<0.0371		0.322	0.0371	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[g,h,i]perylene	<0.0215		0.322	0.0215	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[k]fluoranthene	<0.0634		0.322	0.0634	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-chloroethoxy)methane	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-chloroethyl)ether	<0.0439		0.322	0.0439	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
bis (2-chloroisopropyl) ether	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-ethylhexyl) phthalate	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Bromophenyl phenyl ether	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Butyl benzyl phthalate	<0.0254		0.322	0.0254	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Caprolactam	<0.0644		0.322	0.0644	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Carbazole	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chloroaniline	<0.0507		0.644	0.0507	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chloro-3-methylphenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Chloronaphthalene	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Chlorophenol	<0.0390		0.322	0.0390	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chlorophenyl phenyl ether	<0.0429		0.322	0.0429	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Chrysene	<0.0205		0.322	0.0205	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dibenz(a,h)anthracene	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dibenzofuran	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3,3'-Dichlorobenzidine	<0.0273		0.644	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Diethyl phthalate	<0.0361		0.322	0.0361	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dimethylphenol	<0.0429		0.322	0.0429	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dimethyl phthalate	<0.0332		0.322	0.0332	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Di-n-butyl phthalate	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dinitrophenol	<0.810		1.66	0.810	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dinitrotoluene	<0.0478		0.322	0.0478	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,6-Dinitrotoluene	<0.0410		0.322	0.0410	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Di-n-octyl phthalate	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Fluoranthene	<0.0312		0.322	0.0312	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Fluorene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorobenzene	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorobutadiene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorocyclopentadiene	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachloroethane	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Indeno[1,2,3-cd]pyrene	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Isophorone	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Methylnaphthalene	<0.0371		0.322	0.0371	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Methylphenol	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3 & 4 Methylphenol	<0.0420		0.322	0.0420	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Naphthalene	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Nitroaniline	<0.0439		1.66	0.0439	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3-Nitroaniline	<0.0449		1.66	0.0449	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Nitroaniline	<0.0478		1.66	0.0478	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Nitrobenzene	<0.0254		0.322	0.0254	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

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

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Nitrophenol	<0.322		1.66	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
N-Nitrosodi-n-propylamine	<0.0312		0.322	0.0312	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
N-Nitrosodiphenylamine	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pentachlorophenol	<0.322		1.66	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Phenanthrene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Phenol	<0.0332		0.322	0.0332	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pyrene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pyridine	<0.322		0.644	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4,5-Trichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4,6-Trichlorophenol	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
2-Fluorophenol (Surr)	*54*		*18 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Nitrobenzene-d5 (Surr)	*58*		*19 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Phenol-d5 (Surr)	*56*		*21 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*21 - 132*	*03/11/24 10:45*	*03/11/24 18:42*	*1*

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.44	5.082		mg/Kg		79	33 - 130
Acenaphthylene	6.44	4.805		mg/Kg		75	34 - 130
Acetophenone	6.44	4.376		mg/Kg		68	28 - 130
Anthracene	6.44	5.174		mg/Kg		80	39 - 130
Atrazine	6.44	5.132		mg/Kg		80	27 - 130
Benzaldehyde	6.44	1.352		mg/Kg		21	10 - 130
Benzo[a]anthracene	6.44	5.280		mg/Kg		82	40 - 130
Benzo[a]pyrene	6.44	5.362		mg/Kg		83	37 - 131
Benzo[b]fluoranthene	6.44	5.315		mg/Kg		83	35 - 130
Benzo[g,h,i]perylene	6.44	5.562		mg/Kg		86	39 - 130
Benzo[k]fluoranthene	6.44	5.441		mg/Kg		84	35 - 130
1,1'-Biphenyl	6.44	4.745		mg/Kg		74	32 - 130
Bis(2-chloroethoxy)methane	6.44	4.384		mg/Kg		68	29 - 130
Bis(2-chloroethyl)ether	6.44	4.017		mg/Kg		62	18 - 130
bis (2-chloroisopropyl) ether	6.44	3.762		mg/Kg		58	12 - 130
Bis(2-ethylhexyl) phthalate	6.44	5.211		mg/Kg		81	39 - 130
4-Bromophenyl phenyl ether	6.44	4.801		mg/Kg		75	32 - 130
Butyl benzyl phthalate	6.44	5.360		mg/Kg		83	38 - 130
Caprolactam	6.44	5.068		mg/Kg		79	27 - 148
Carbazole	6.44	5.322		mg/Kg		83	43 - 130
4-Chloroaniline	6.44	4.125		mg/Kg		64	10 - 130
4-Chloro-3-methylphenol	6.44	4.967		mg/Kg		77	31 - 130
2-Chloronaphthalene	6.44	4.681		mg/Kg		73	30 - 130

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

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	6.44	4.247		mg/Kg		66	28 - 130
4-Chlorophenyl phenyl ether	6.44	4.963		mg/Kg		77	32 - 130
Chrysene	6.44	5.235		mg/Kg		81	40 - 130
Dibenz(a,h)anthracene	6.44	5.450		mg/Kg		85	37 - 130
Dibenzofuran	6.44	4.749		mg/Kg		74	34 - 130
3,3'-Dichlorobenzidine	6.44	4.776		mg/Kg		74	10 - 130
2,4-Dichlorophenol	6.44	4.946		mg/Kg		77	30 - 130
Diethyl phthalate	6.44	5.138		mg/Kg		80	36 - 130
2,4-Dimethylphenol	6.44	4.388		mg/Kg		68	34 - 130
Dimethyl phthalate	6.44	4.941		mg/Kg		77	36 - 130
Di-n-butyl phthalate	6.44	5.393		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	12.9	11.22		mg/Kg		87	22 - 130
2,4-Dinitrophenol	12.9	9.487		mg/Kg		74	10 - 130
2,4-Dinitrotoluene	6.44	6.097		mg/Kg		95	34 - 130
2,6-Dinitrotoluene	6.44	5.536		mg/Kg		86	33 - 130
Di-n-octyl phthalate	6.44	5.336		mg/Kg		83	38 - 131
Fluoranthene	6.44	5.345		mg/Kg		83	38 - 130
Fluorene	6.44	4.936		mg/Kg		77	34 - 130
Hexachlorobenzene	6.44	5.044		mg/Kg		78	28 - 130
Hexachlorobutadiene	6.44	4.279		mg/Kg		66	22 - 130
Hexachlorocyclopentadiene	6.44	3.240		mg/Kg		50	11 - 130
Hexachloroethane	6.44	3.927		mg/Kg		61	21 - 130
Indeno[1,2,3-cd]pyrene	6.44	5.356		mg/Kg		83	40 - 130
Isophorone	6.44	4.403		mg/Kg		68	26 - 130
2-Methylnaphthalene	6.44	4.507		mg/Kg		70	28 - 130
2-Methylphenol	6.44	4.349		mg/Kg		68	30 - 130
3 & 4 Methylphenol	6.44	4.539		mg/Kg		70	31 - 130
Naphthalene	6.44	4.373		mg/Kg		68	25 - 130
2-Nitroaniline	6.44	5.261		mg/Kg		82	26 - 130
3-Nitroaniline	6.44	5.329		mg/Kg		83	10 - 130
4-Nitroaniline	6.44	5.791		mg/Kg		90	25 - 130
Nitrobenzene	6.44	4.462		mg/Kg		69	25 - 130
2-Nitrophenol	6.44	4.798		mg/Kg		75	24 - 130
4-Nitrophenol	12.9	12.30		mg/Kg		96	25 - 130
N-Nitrosodi-n-propylamine	6.44	3.962		mg/Kg		62	24 - 130
N-Nitrosodiphenylamine	6.44	5.167		mg/Kg		80	37 - 130
Pentachlorophenol	12.9	11.22		mg/Kg		87	16 - 135
Phenanthrene	6.44	5.064		mg/Kg		79	38 - 130
Phenol	6.44	4.308		mg/Kg		67	27 - 130
Pyrene	6.44	5.457		mg/Kg		85	40 - 130
Pyridine	12.9	4.498		mg/Kg		35	10 - 130
2,4,5-Trichlorophenol	6.44	5.117		mg/Kg		79	33 - 130
2,4,6-Trichlorophenol	6.44	5.188		mg/Kg		81	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*
2-Fluorophenol (Surr)	*61*		*18 - 130*
Nitrobenzene-d5 (Surr)	*64*		*19 - 130*

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

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*64*		*21 - 130*
Terphenyl-d14 (Surr)	*76*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*80*		*21 - 132*

Lab Sample ID: MB 680-827696/1-A
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/15/24 07:58	03/15/24 15:21	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/15/24 07:58	03/15/24 15:21	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/15/24 07:58	03/15/24 15:21	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/15/24 07:58	03/15/24 15:21	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/15/24 07:58	03/15/24 15:21	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/15/24 07:58	03/15/24 15:21	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/15/24 07:58	03/15/24 15:21	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/15/24 07:58	03/15/24 15:21	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/15/24 07:58	03/15/24 15:21	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/15/24 07:58	03/15/24 15:21	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/15/24 07:58	03/15/24 15:21	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/15/24 07:58	03/15/24 15:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
2-Fluorophenol (Surr)	*31*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
Phenol-d5 (Surr)	*21*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
Terphenyl-d14 (Surr)	*69*		*35 - 131*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*

Lab Sample ID: LCS 680-827696/2-A
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1019		mg/L		51	13 - 130
2,4-Dinitrotoluene	0.200	0.1723		mg/L		86	37 - 130
Hexachlorobenzene	0.200	0.1402		mg/L		70	30 - 130
Hexachlorobutadiene	0.200	0.09613		mg/L		48	12 - 130
Hexachloroethane	0.200	0.09080		mg/L		45	12 - 130
2-Methylphenol	0.200	0.1115		mg/L		56	21 - 130
3 & 4 Methylphenol	0.200	0.1048		mg/L		52	19 - 130
Nitrobenzene	0.200	0.1229		mg/L		61	32 - 130
Pentachlorophenol	0.400	0.2934		mg/L		73	24 - 130
Pyridine	0.400	0.07924		mg/L		20	10 - 130
2,4,5-Trichlorophenol	0.200	0.1459		mg/L		73	26 - 130
2,4,6-Trichlorophenol	0.200	0.1435		mg/L		72	28 - 130

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

Lab Sample ID: LCS 680-827696/2-A
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827696

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*25 - 130*
2-Fluorophenol (Surr)	*31*		*10 - 130*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*
Phenol-d5 (Surr)	*22*		*10 - 130*
Terphenyl-d14 (Surr)	*63*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*72*		*30 - 130*

Lab Sample ID: LB1 680-827406/1-D
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 827696

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 15:46	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/15/24 07:58	03/15/24 15:46	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/15/24 07:58	03/15/24 15:46	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/15/24 07:58	03/15/24 15:46	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 15:46	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/15/24 07:58	03/15/24 15:46	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/15/24 07:58	03/15/24 15:46	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 15:46	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/15/24 07:58	03/15/24 15:46	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/15/24 07:58	03/15/24 15:46	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 15:46	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/15/24 07:58	03/15/24 15:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*25 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
2-Fluorophenol (Surr)	*25*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
Phenol-d5 (Surr)	*16*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
Terphenyl-d14 (Surr)	*67*		*35 - 131*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*

Lab Sample ID: 680-247630-6 MS
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: NH-14
Prep Type: TCLP
Prep Batch: 827696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.5223		mg/L		52	13 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.9467		mg/L		95	37 - 130
Hexachlorobenzene	<0.00800		1.00	0.7605		mg/L		76	30 - 130
Hexachlorobutadiene	<0.0200		1.00	0.5326		mg/L		53	12 - 130
Hexachloroethane	<0.0180		1.00	0.4892		mg/L		49	12 - 130
2-Methylphenol	<0.00900		1.00	0.5622		mg/L		56	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.5384		mg/L		54	19 - 130
Nitrobenzene	<0.0180		1.00	0.6356		mg/L		64	32 - 130
Pentachlorophenol	<0.0500		2.00	1.542		mg/L		77	24 - 130
Pyridine	<0.0370	F1 F2	2.00	0.4808		mg/L		24	10 - 130

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

Lab Sample ID: 680-247630-6 MS
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: NH-14
Prep Type: TCLP
Prep Batch: 827696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	<0.0160		1.00	0.8036		mg/L		80	26 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.7868		mg/L		79	28 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*
Phenol-d5 (Surr)	*22*		*10 - 130*
Terphenyl-d14 (Surr)	*72*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*

Lab Sample ID: 680-247630-6 MSD
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: NH-14
Prep Type: TCLP
Prep Batch: 827696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.5124		mg/L		51	13 - 130	2	50
2,4-Dinitrotoluene	<0.0120		1.00	0.9853		mg/L		99	37 - 130	4	50
Hexachlorobenzene	<0.00800		1.00	0.7473		mg/L		75	30 - 130	2	50
Hexachlorobutadiene	<0.0200		1.00	0.5209		mg/L		52	12 - 130	2	50
Hexachloroethane	<0.0180		1.00	0.4880		mg/L		49	12 - 130	0	50
2-Methylphenol	<0.00900		1.00	0.5505		mg/L		55	21 - 130	2	50
3 & 4 Methylphenol	<0.00700		1.00	0.5286		mg/L		53	19 - 130	2	50
Nitrobenzene	<0.0180		1.00	0.6265		mg/L		63	32 - 130	1	50
Pentachlorophenol	<0.0500		2.00	1.685		mg/L		84	24 - 130	9	50
Pyridine	<0.0370	F1 F2	2.00	0.1153	J F1 F2	mg/L		6	10 - 130	123	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.7682		mg/L		77	26 - 130	5	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.7732		mg/L		77	28 - 130	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*
Phenol-d5 (Surr)	*23*		*10 - 130*
Terphenyl-d14 (Surr)	*71*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*81*		*30 - 130*

GC/MS VOA

Analysis Batch: 826226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-7	Field Blank - 20240305	Total/NA	Water	8260D	
680-247630-8	Equipment Blank - 20240305	Total/NA	Water	8260D	
680-247630-9	Trip Blank	Total/NA	Water	8260D	
MB 680-826226/10	Method Blank	Total/NA	Water	8260D	
LCS 680-826226/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-826226/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Prep Batch: 826866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	5035A	
680-247630-2	WOTA-BS-05	Total/NA	Solid	5035A	
680-247630-3	WOTA-BS-06	Total/NA	Solid	5035A	

Leach Batch: 827405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-4	NH-14a	TCLP	Solid	1311	
LB 680-827405/1-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 827653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-5	NH-14b	TCLP	Solid	1311	
LB 680-827653/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 827731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-827731/11	Method Blank	Total/NA	Solid	8260D	
LCS 680-827731/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827731/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-4	NH-14a	TCLP	Solid	8260D	827405
LB 680-827405/1-A	Method Blank	TCLP	Solid	8260D	827405
MB 680-827735/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-827735/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827735/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-827653/1-A	Method Blank	TCLP	Solid	8260D	827653
MB 680-827981/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-827981/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827981/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-5	NH-14b	TCLP	Solid	8260D	827653
MB 680-827987/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-827987/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827987/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS VOA

Analysis Batch: 828063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	8260D	826866
680-247630-2	WOTA-BS-05	Total/NA	Solid	8260D	826866
680-247630-3	WOTA-BS-06	Total/NA	Solid	8260D	826866
MB 680-828063/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-828063/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-828063/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 826629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-7	Field Blank - 20240305	Total/NA	Water	3510C	
680-247630-8	Equipment Blank - 20240305	Total/NA	Water	3510C	
MB 680-826629/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-826629/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 826647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-7	Field Blank - 20240305	Total/NA	Water	8270E	826629
680-247630-8	Equipment Blank - 20240305	Total/NA	Water	8270E	826629
MB 680-826629/1-A	Method Blank	Total/NA	Water	8270E	826629
LCS 680-826629/2-A	Lab Control Sample	Total/NA	Water	8270E	826629

Prep Batch: 826806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	3546	
680-247630-2	WOTA-BS-05	Total/NA	Solid	3546	
680-247630-3	WOTA-BS-06	Total/NA	Solid	3546	
680-247630-6	NH-14	Total/NA	Solid	3546	
MB 680-826806/19-A	Method Blank	Total/NA	Solid	3546	
LCS 680-826806/20-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 826937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	8270E	826806
680-247630-2	WOTA-BS-05	Total/NA	Solid	8270E	826806
680-247630-3	WOTA-BS-06	Total/NA	Solid	8270E	826806
680-247630-6	NH-14	Total/NA	Solid	8270E	826806
MB 680-826806/19-A	Method Blank	Total/NA	Solid	8270E	826806
LCS 680-826806/20-A	Lab Control Sample	Total/NA	Solid	8270E	826806

Leach Batch: 827406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-6	NH-14	TCLP	Solid	1311	
LB1 680-827406/1-D	Method Blank	TCLP	Solid	1311	
680-247630-6 MS	NH-14	TCLP	Solid	1311	
680-247630-6 MSD	NH-14	TCLP	Solid	1311	

Prep Batch: 827696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-6	NH-14	TCLP	Solid	3510C	827406

GC/MS Semi VOA (Continued)

Prep Batch: 827696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB1 680-827406/1-D	Method Blank	TCLP	Solid	3510C	827406
MB 680-827696/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-827696/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-247630-6 MS	NH-14	TCLP	Solid	3510C	827406
680-247630-6 MSD	NH-14	TCLP	Solid	3510C	827406

Analysis Batch: 827816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-6	NH-14	TCLP	Solid	8270E	827696
LB1 680-827406/1-D	Method Blank	TCLP	Solid	8270E	827696
MB 680-827696/1-A	Method Blank	Total/NA	Solid	8270E	827696
LCS 680-827696/2-A	Lab Control Sample	Total/NA	Solid	8270E	827696
680-247630-6 MS	NH-14	TCLP	Solid	8270E	827696
680-247630-6 MSD	NH-14	TCLP	Solid	8270E	827696

General Chemistry

Analysis Batch: 826497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	Moisture	
680-247630-2	WOTA-BS-05	Total/NA	Solid	Moisture	
680-247630-3	WOTA-BS-06	Total/NA	Solid	Moisture	
680-247630-6	NH-14	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.104 g	5 mL	826866	03/11/24 10:52	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	828063	03/18/24 14:07	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.66 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 21:14	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.867 g	5 mL	826866	03/11/24 10:52	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	828063	03/18/24 14:29	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.64 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 21:39	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-BS-06
Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-06

Lab Sample ID: 680-247630-3
Date Collected: 03/05/24 10:00
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.616 g	5 mL	826866	03/11/24 10:52	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	828063	03/18/24 14:51	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.41 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 22:05	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: NH-14a

Lab Sample ID: 680-247630-4
Date Collected: 03/05/24 10:20
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827405	03/13/24 22:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827735	03/15/24 14:36	AA	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: NH-14b

Lab Sample ID: 680-247630-5
Date Collected: 03/05/24 10:25
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827653	03/14/24 21:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827987	03/17/24 15:43	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: NH-14

Lab Sample ID: 680-247630-6
Date Collected: 03/05/24 10:20
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	827406	03/13/24 22:30	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827696	03/15/24 07:58	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827816	03/15/24 17:54	OK	EET SAV
	Instrument ID: CMST									
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: NH-14

Lab Sample ID: 680-247630-6
Date Collected: 03/05/24 10:20
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.35 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 22:30	T1C	EET SAV
	Instrument ID: CMST									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Field Blank - 20240305

Lab Sample ID: 680-247630-7

Date Collected: 03/05/24 12:30
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 16:22	MLL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Prep	3510C			500.6 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 18:42	T1C	EET SAV
	Instrument ID: CMSK									

Client Sample ID: Equipment Blank - 20240305

Lab Sample ID: 680-247630-8

Date Collected: 03/05/24 12:40
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 16:44	MLL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Prep	3510C			500.2 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 19:09	T1C	EET SAV
	Instrument ID: CMSK									

Client Sample ID: Trip Blank

Lab Sample ID: 680-247630-9

Date Collected: 03/05/24 00:00
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 17:06	MLL	EET SAV
	Instrument ID: CMSAB									

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: 680-247630-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154780-55565.1
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	A		
WOTA-BS-04	3/5/24	9:50	G	S			X	X			
WOTA-BS-05		9:55	G				X	X			
WOTA-BS-06		10:00	G				X	X			
NH-14a		10:20	G				X	X			
NH-14b		10:25	G				X	X			
NH-14		10:20	C					X			
WOTA-MSD-20240305		11:20	G				X	X			collected from WOTA-SS-06(B)
WOTA-MS-20240305		11:30	G				X	X			
Field Blank-20240305		12:30	G	W				X	X		
Equipment Blank-20240305		12:40	G	W				X	X		
Trip Blank									X		on hold

680-247630 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
	[signature]	3/5/24 18:30		[signature]	3-6-24 1017	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	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: 1.4/1.4

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-766079.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 680-247630-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 3/13/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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 - Client ID (Lab ID)	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)	8260D/5035A_FP VOCs-NC 02L List - Soil	Special Instructions/Note:
			Preservation Code:					
WOTA-BS-04 (680-247630-1)	3/5/24	09:50 Eastern		Solid			X	
WOTA-BS-05 (680-247630-2)	3/5/24	09:55 Eastern		Solid			X	
WOTA-BS-06 (680-247630-3)	3/5/24	10:00 Eastern		Solid			X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/13/24 1600		BP	3/14/24 1002	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 1.1°C 1.8°C IR11

Ver: 06/08/2021

3/18/2024

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247630-1

Login Number: 247630
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/18/2024 12:17:22 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247840-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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3/18/2024 12:17:22 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247840-1	NH-15	Solid	03/08/24 12:30	03/09/24 09:33
680-247840-2	NH-15a	Solid	03/08/24 12:30	03/09/24 09:33
680-247840-3	NH-15b	Solid	03/08/24 12:35	03/09/24 09:33
680-247840-4	WAP-01	Solid	03/08/24 12:40	03/09/24 09:33
680-247840-5	WAP-01a	Solid	03/08/24 12:40	03/09/24 09:33
680-247840-6	WAP-01b	Solid	03/08/24 12:45	03/09/24 09:33
680-247840-7	WAP-02	Solid	03/08/24 12:50	03/09/24 09:33
680-247840-8	WAP-02a	Solid	03/08/24 12:50	03/09/24 09:33
680-247840-9	WAP-02b	Solid	03/08/24 12:55	03/09/24 09:33
680-247840-10	WAP-03	Solid	03/08/24 13:00	03/09/24 09:33
680-247840-11	WAP-03a	Solid	03/08/24 13:00	03/09/24 09:33
680-247840-12	WAP-03b	Solid	03/08/24 13:05	03/09/24 09:33
680-247840-13	WAP-04	Solid	03/08/24 13:10	03/09/24 09:33
680-247840-14	WAP-04a	Solid	03/08/24 13:10	03/09/24 09:33
680-247840-15	WAP-04b	Solid	03/08/24 13:15	03/09/24 09:33
680-247840-16	WAP-05	Solid	03/08/24 13:20	03/09/24 09:33
680-247840-17	WAP-05a	Solid	03/08/24 13:20	03/09/24 09:33
680-247840-18	WAP-05b	Solid	03/08/24 13:25	03/09/24 09:33
680-247840-19	WAP-06	Solid	03/08/24 13:30	03/09/24 09:33
680-247840-20	WAP-06a	Solid	03/08/24 13:30	03/09/24 09:33
680-247840-21	WAP-06b	Solid	03/08/24 13:35	03/09/24 09:33

Job ID: 680-247840-1 Eurofins Savannah

Job Narrative
680-247840-1

Receipt
The samples were received on 3/9/2024 9:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

GC/MS VOA
Method 8260D - TCLP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-827107 and analytical batch 680-827478 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 - TCLP: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 680-827104 and 680-827437 and analytical batch 680-827604 exceeded control limits for the following analyte(s): Pyridine, Note that this analyte is a known poor performer when analyzed using this method.

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: NH-15

Date Collected: 03/08/24 12:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/14/24 18:51	1
Pyridine	<0.0370	F2	0.250	0.0370	mg/L		03/14/24 07:46	03/14/24 18:51	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/14/24 18:51	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/14/24 18:51	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/14/24 18:51	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/14/24 18:51	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/14/24 18:51	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/14/24 18:51	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/14/24 18:51	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/14/24 18:51	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/14/24 18:51	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/14/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*30 - 130*	*03/14/24 07:46*	*03/14/24 18:51*	*1*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*	*03/14/24 07:46*	*03/14/24 18:51*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/14/24 07:46*	*03/14/24 18:51*	*1*
Terphenyl-d14 (Surr)	*76*		*35 - 131*	*03/14/24 07:46*	*03/14/24 18:51*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/14/24 07:46*	*03/14/24 18:51*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/14/24 07:46*	*03/14/24 18:51*	*1*

Client Sample ID: NH-15a

Date Collected: 03/08/24 12:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 15:46	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 15:46	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 15:46	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 15:46	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 15:46	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 15:46	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 15:46	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 15:46	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 15:46	20
Tetrachloroethene	**0.0211**		0.0200	0.0150	mg/L			03/14/24 15:46	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 15:46	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 15:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/14/24 15:46*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/14/24 15:46*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/14/24 15:46*	*20*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*03/14/24 15:46*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: NH-15b

Lab Sample ID: 680-247840-3

Date Collected: 03/08/24 12:35
Date Received: 03/09/24 09:33

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 16:07	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:07	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 16:07	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 16:07	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 16:07	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 16:07	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 16:07	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:07	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 16:07	20
Tetrachloroethene	**0.0484**		0.0200	0.0150	mg/L			03/14/24 16:07	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 16:07	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/14/24 16:07*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/14/24 16:07*	*20*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/14/24 16:07*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*03/14/24 16:07*	*20*

Client Sample ID: WAP-01

Lab Sample ID: 680-247840-4

Date Collected: 03/08/24 12:40
Date Received: 03/09/24 09:33

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 00:30	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/15/24 00:30	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/15/24 00:30	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/15/24 00:30	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 00:30	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/15/24 00:30	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/15/24 00:30	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/15/24 00:30	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 00:30	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 00:30	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/15/24 00:30	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/15/24 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*30 - 130*	*03/14/24 07:46*	*03/15/24 00:30*	*1*
2-Fluorobiphenyl (Surr)	*61*		*25 - 130*	*03/14/24 07:46*	*03/15/24 00:30*	*1*
2-Fluorophenol (Surr)	*40*		*10 - 130*	*03/14/24 07:46*	*03/15/24 00:30*	*1*
Terphenyl-d14 (Surr)	*76*		*35 - 131*	*03/14/24 07:46*	*03/15/24 00:30*	*1*
Phenol-d5 (Surr)	*28*		*10 - 130*	*03/14/24 07:46*	*03/15/24 00:30*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/14/24 07:46*	*03/15/24 00:30*	*1*

Client Sample ID: WAP-01a

Lab Sample ID: 680-247840-5

Date Collected: 03/08/24 12:40
Matrix: Solid
Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 16:29	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:29	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 16:29	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 16:29	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 16:29	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 16:29	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 16:29	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:29	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 16:29	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/14/24 16:29	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 16:29	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/14/24 16:29*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/14/24 16:29*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/14/24 16:29*	*20*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*03/14/24 16:29*	*20*

Client Sample ID: WAP-01b

Lab Sample ID: 680-247840-6

Date Collected: 03/08/24 12:45
Matrix: Solid
Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 16:50	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:50	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 16:50	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 16:50	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 16:50	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 16:50	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 16:50	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:50	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 16:50	20
Tetrachloroethene	**0.592**		0.0200	0.0150	mg/L			03/14/24 16:50	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 16:50	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 16:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/14/24 16:50*	*20*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/14/24 16:50*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/14/24 16:50*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*03/14/24 16:50*	*20*

Client Sample ID: WAP-02

Lab Sample ID: 680-247840-7

Date Collected: 03/08/24 12:50
Matrix: Solid
Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 00:56	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: WAP-02

Lab Sample ID: 680-247840-7

Date Collected: 03/08/24 12:50

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/15/24 00:56	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/15/24 00:56	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/15/24 00:56	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 00:56	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/15/24 00:56	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/15/24 00:56	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/15/24 00:56	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 00:56	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 00:56	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/15/24 00:56	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/15/24 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*30 - 130*	*03/14/24 07:46*	*03/15/24 00:56*	*1*
2-Fluorobiphenyl (Surr)	*47*		*25 - 130*	*03/14/24 07:46*	*03/15/24 00:56*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 130*	*03/14/24 07:46*	*03/15/24 00:56*	*1*
Terphenyl-d14 (Surr)	*79*		*35 - 131*	*03/14/24 07:46*	*03/15/24 00:56*	*1*
Phenol-d5 (Surr)	*27*		*10 - 130*	*03/14/24 07:46*	*03/15/24 00:56*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/14/24 07:46*	*03/15/24 00:56*	*1*

Client Sample ID: WAP-02a

Lab Sample ID: 680-247840-8

Date Collected: 03/08/24 12:50

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 17:12	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:12	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 17:12	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 17:12	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 17:12	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 17:12	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 17:12	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:12	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 17:12	20
Tetrachloroethene	**0.0170**	**J**	0.0200	0.0150	mg/L			03/14/24 17:12	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 17:12	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/14/24 17:12*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/14/24 17:12*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/14/24 17:12*	*20*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*03/14/24 17:12*	*20*

Client Sample ID: WAP-02b

Lab Sample ID: 680-247840-9

Date Collected: 03/08/24 12:55

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 17:33	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:33	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 17:33	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 17:33	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 17:33	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 17:33	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 17:33	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:33	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 17:33	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/14/24 17:33	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 17:33	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/14/24 17:33*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/14/24 17:33*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/14/24 17:33*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*03/14/24 17:33*	*20*

Client Sample ID: WAP-03

Lab Sample ID: 680-247840-10

Date Collected: 03/08/24 13:00

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 01:23	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/15/24 01:23	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/15/24 01:23	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/15/24 01:23	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 01:23	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/15/24 01:23	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/15/24 01:23	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/15/24 01:23	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 01:23	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 01:23	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/15/24 01:23	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/15/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 130*	*03/14/24 07:46*	*03/15/24 01:23*	*1*
2-Fluorobiphenyl (Surr)	*56*		*25 - 130*	*03/14/24 07:46*	*03/15/24 01:23*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 130*	*03/14/24 07:46*	*03/15/24 01:23*	*1*
Terphenyl-d14 (Surr)	*76*		*35 - 131*	*03/14/24 07:46*	*03/15/24 01:23*	*1*
Phenol-d5 (Surr)	*26*		*10 - 130*	*03/14/24 07:46*	*03/15/24 01:23*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/14/24 07:46*	*03/15/24 01:23*	*1*

Client Sample ID: WAP-03a

Lab Sample ID: 680-247840-11

Date Collected: 03/08/24 13:00

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 17:55	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:55	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 17:55	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 17:55	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 17:55	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 17:55	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 17:55	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:55	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 17:55	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/14/24 17:55	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 17:55	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 17:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/14/24 17:55*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/14/24 17:55*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/14/24 17:55*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*03/14/24 17:55*	*20*

Client Sample ID: WAP-03b

Lab Sample ID: 680-247840-12

Date Collected: 03/08/24 13:05

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 18:16	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:16	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 18:16	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 18:16	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 18:16	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 18:16	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 18:16	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:16	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 18:16	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/14/24 18:16	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 18:16	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/14/24 18:16*	*20*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*03/14/24 18:16*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/14/24 18:16*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*03/14/24 18:16*	*20*

Client Sample ID: WAP-04

Lab Sample ID: 680-247840-13

Date Collected: 03/08/24 13:10

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 01:48	1

Client Sample ID: WAP-04

Date Collected: 03/08/24 13:10
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/15/24 01:48	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/15/24 01:48	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/15/24 01:48	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 01:48	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/15/24 01:48	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/15/24 01:48	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/15/24 01:48	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 01:48	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 01:48	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/15/24 01:48	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/15/24 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*		*30 - 130*	*03/14/24 07:46*	*03/15/24 01:48*	*1*
2-Fluorobiphenyl (Surr)	*55*		*25 - 130*	*03/14/24 07:46*	*03/15/24 01:48*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/14/24 07:46*	*03/15/24 01:48*	*1*
Terphenyl-d14 (Surr)	*71*		*35 - 131*	*03/14/24 07:46*	*03/15/24 01:48*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*03/14/24 07:46*	*03/15/24 01:48*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/14/24 07:46*	*03/15/24 01:48*	*1*

Client Sample ID: WAP-04a

Date Collected: 03/08/24 13:10
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 18:38	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:38	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 18:38	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 18:38	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 18:38	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 18:38	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 18:38	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:38	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 18:38	20
Tetrachloroethene	**0.112**		0.0200	0.0150	mg/L			03/14/24 18:38	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 18:38	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/14/24 18:38*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/14/24 18:38*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/14/24 18:38*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*03/14/24 18:38*	*20*

Client Sample ID: WAP-04b

Lab Sample ID: 680-247840-15

Date Collected: 03/08/24 13:15

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 18:59	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:59	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 18:59	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 18:59	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 18:59	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 18:59	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 18:59	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:59	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 18:59	20
Tetrachloroethene	**0.0428**		0.0200	0.0150	mg/L			03/14/24 18:59	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 18:59	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 18:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/14/24 18:59*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/14/24 18:59*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/14/24 18:59*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*03/14/24 18:59*	*20*

Client Sample ID: WAP-05

Lab Sample ID: 680-247840-16

Date Collected: 03/08/24 13:20

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 02:15	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/15/24 02:15	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/15/24 02:15	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/15/24 02:15	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 02:15	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/15/24 02:15	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/15/24 02:15	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/15/24 02:15	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 02:15	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 02:15	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/15/24 02:15	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/15/24 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*49*		*30 - 130*	*03/14/24 07:46*	*03/15/24 02:15*	*1*
2-Fluorobiphenyl (Surr)	*50*		*25 - 130*	*03/14/24 07:46*	*03/15/24 02:15*	*1*
2-Fluorophenol (Surr)	*34*		*10 - 130*	*03/14/24 07:46*	*03/15/24 02:15*	*1*
Terphenyl-d14 (Surr)	*62*		*35 - 131*	*03/14/24 07:46*	*03/15/24 02:15*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*03/14/24 07:46*	*03/15/24 02:15*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/14/24 07:46*	*03/15/24 02:15*	*1*

Client Sample ID: WAP-05a

Lab Sample ID: 680-247840-17

Date Collected: 03/08/24 13:20

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 19:21	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 19:21	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 19:21	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 19:21	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 19:21	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 19:21	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 19:21	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 19:21	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 19:21	20
Tetrachloroethene	**0.0405**		0.0200	0.0150	mg/L			03/14/24 19:21	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 19:21	20
Vinyl chloride	<0.0100	F1	0.0200	0.0100	mg/L			03/14/24 19:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/14/24 19:21*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/14/24 19:21*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/14/24 19:21*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*03/14/24 19:21*	*20*

Client Sample ID: WAP-05b

Lab Sample ID: 680-247840-18

Date Collected: 03/08/24 13:25

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 14:57	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 14:57	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 14:57	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 14:57	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 14:57	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 14:57	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 14:57	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 14:57	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 14:57	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 14:57	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 14:57	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			03/15/24 14:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/15/24 14:57*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*03/15/24 14:57*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/15/24 14:57*	*20*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*03/15/24 14:57*	*20*

Client Sample ID: WAP-06

Lab Sample ID: 680-247840-19

Date Collected: 03/08/24 13:30

Matrix: Solid

Date Received: 03/09/24 09:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 02:41	1

Client Sample ID: WAP-06

Date Collected: 03/08/24 13:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/15/24 02:41	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/15/24 02:41	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/15/24 02:41	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 02:41	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/15/24 02:41	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/15/24 02:41	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/15/24 02:41	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/15/24 02:41	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/15/24 02:41	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/15/24 02:41	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/15/24 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 130*	*03/14/24 07:46*	*03/15/24 02:41*	*1*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*	*03/14/24 07:46*	*03/15/24 02:41*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/14/24 07:46*	*03/15/24 02:41*	*1*
Terphenyl-d14 (Surr)	*79*		*35 - 131*	*03/14/24 07:46*	*03/15/24 02:41*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/14/24 07:46*	*03/15/24 02:41*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/14/24 07:46*	*03/15/24 02:41*	*1*

Client Sample ID: WAP-06a

Date Collected: 03/08/24 13:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 15:19	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 15:19	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 15:19	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 15:19	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 15:19	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 15:19	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 15:19	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 15:19	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 15:19	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 15:19	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 15:19	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			03/15/24 15:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/15/24 15:19*	*20*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*03/15/24 15:19*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 15:19*	*20*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*03/15/24 15:19*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: WAP-06b
Date Collected: 03/08/24 13:35
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 15:40	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 15:40	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 15:40	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 15:40	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 15:40	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 15:40	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 15:40	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 15:40	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 15:40	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 15:40	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 15:40	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			03/15/24 15:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/24 15:40*	*20*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*03/15/24 15:40*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 15:40*	*20*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*03/15/24 15:40*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

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

Lab Sample ID: MB 680-827478/8
Matrix: Solid
Analysis Batch: 827478

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/14/24 12:25	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/14/24 12:25	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/14/24 12:25	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/14/24 12:25	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/14/24 12:25	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/14/24 12:25	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/14/24 12:25	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/14/24 12:25	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/14/24 12:25	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/14/24 12:25	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/14/24 12:25	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/14/24 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/14/24 12:25*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/14/24 12:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/14/24 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*03/14/24 12:25*	*1*

Lab Sample ID: LCS 680-827478/4
Matrix: Solid
Analysis Batch: 827478

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04953		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.05186		mg/L		104	70 - 130
1,4-Dichlorobenzene	0.0500	0.04945		mg/L		99	70 - 130
2-Butanone (MEK)	0.250	0.2617		mg/L		105	69 - 114
Benzene	0.0500	0.04858		mg/L		97	70 - 130
Carbon tetrachloride	0.0500	0.04915		mg/L		98	70 - 130
Chlorobenzene	0.0500	0.05163		mg/L		103	70 - 130
Chloroform	0.0500	0.05243		mg/L		105	70 - 130
Hexachlorobutadiene	0.0500	0.04942		mg/L		99	70 - 130
Tetrachloroethene	0.0500	0.04871		mg/L		97	70 - 130
Trichloroethene	0.0500	0.05160		mg/L		103	70 - 130
Vinyl chloride	0.0500	0.05288		mg/L		106	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*

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

Lab Sample ID: LCSD 680-827478/5
Matrix: Solid
Analysis Batch: 827478

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-Dichloroethene			0.0500	0.04781		mg/L		96	70 - 130	4	20
1,2-Dichloroethane			0.0500	0.05193		mg/L		104	70 - 130	0	50
1,4-Dichlorobenzene			0.0500	0.05148		mg/L		103	70 - 130	4	30
2-Butanone (MEK)			0.250	0.2672		mg/L		107	69 - 114	2	30
Benzene			0.0500	0.04893		mg/L		98	70 - 130	1	30
Carbon tetrachloride			0.0500	0.04869		mg/L		97	70 - 130	1	30
Chlorobenzene			0.0500	0.05039		mg/L		101	70 - 130	2	30
Chloroform			0.0500	0.05328		mg/L		107	70 - 130	2	30
Hexachlorobutadiene			0.0500	0.05101		mg/L		102	70 - 130	3	20
Tetrachloroethene			0.0500	0.04890		mg/L		98	70 - 130	0	30
Trichloroethene			0.0500	0.05141		mg/L		103	70 - 130	0	30
Vinyl chloride			0.0500	0.05253		mg/L		105	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*

Lab Sample ID: MB 680-827731/11
Matrix: Solid
Analysis Batch: 827731

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/15/24 13:36	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/15/24 13:36	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/15/24 13:36	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/15/24 13:36	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/15/24 13:36	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/15/24 13:36	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/15/24 13:36	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/15/24 13:36	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/15/24 13:36	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*03/15/24 13:36*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*03/15/24 13:36*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*03/15/24 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*03/15/24 13:36*	*1*

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

Lab Sample ID: LCS 680-827731/4
Matrix: Solid
Analysis Batch: 827731

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.05115		mg/L		102	70 - 130		
1,2-Dichloroethane			0.0500	0.05332		mg/L		107	70 - 130		
1,4-Dichlorobenzene			0.0500	0.04697		mg/L		94	70 - 130		
2-Butanone (MEK)			0.250	0.2461		mg/L		98	69 - 114		
Benzene			0.0500	0.04927		mg/L		99	70 - 130		
Carbon tetrachloride			0.0500	0.04944		mg/L		99	70 - 130		
Chlorobenzene			0.0500	0.04977		mg/L		100	70 - 130		
Chloroform			0.0500	0.04748		mg/L		95	70 - 130		
Hexachlorobutadiene			0.0500	0.05126		mg/L		103	70 - 130		
Tetrachloroethene			0.0500	0.05079		mg/L		102	70 - 130		
Trichloroethene			0.0500	0.04679		mg/L		94	70 - 130		
Vinyl chloride			0.0500	0.05935		mg/L		119	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*

Lab Sample ID: LCSD 680-827731/5
Matrix: Solid
Analysis Batch: 827731

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-Dichloroethene			0.0500	0.05096		mg/L		102	70 - 130	0	20
1,2-Dichloroethane			0.0500	0.05232		mg/L		105	70 - 130	2	50
1,4-Dichlorobenzene			0.0500	0.04853		mg/L		97	70 - 130	3	30
2-Butanone (MEK)			0.250	0.2489		mg/L		100	69 - 114	1	30
Benzene			0.0500	0.04911		mg/L		98	70 - 130	0	30
Carbon tetrachloride			0.0500	0.05032		mg/L		101	70 - 130	2	30
Chlorobenzene			0.0500	0.04892		mg/L		98	70 - 130	2	30
Chloroform			0.0500	0.04804		mg/L		96	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.05449		mg/L		109	70 - 130	6	20
Tetrachloroethene			0.0500	0.05221		mg/L		104	70 - 130	3	30
Trichloroethene			0.0500	0.04975		mg/L		99	70 - 130	6	30
Vinyl chloride			0.0500	0.06193		mg/L		124	66 - 129	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*

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

Lab Sample ID: MB 680-827735/9
Matrix: Solid
Analysis Batch: 827735

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/15/24 12:40	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/15/24 12:40	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/15/24 12:40	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/15/24 12:40	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/15/24 12:40	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/15/24 12:40	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/15/24 12:40	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/15/24 12:40	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/15/24 12:40	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/24 12:40*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/15/24 12:40*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*03/15/24 12:40*	*1*

Lab Sample ID: LCS 680-827735/4
Matrix: Solid
Analysis Batch: 827735

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.05208		mg/L		104	70 - 130
1,2-Dichloroethane	0.0500	0.04787		mg/L		96	70 - 130
1,4-Dichlorobenzene	0.0500	0.04993		mg/L		100	70 - 130
2-Butanone (MEK)	0.250	0.2487		mg/L		99	69 - 114
Benzene	0.0500	0.05357		mg/L		107	70 - 130
Carbon tetrachloride	0.0500	0.04808		mg/L		96	70 - 130
Chlorobenzene	0.0500	0.05236		mg/L		105	70 - 130
Chloroform	0.0500	0.04596		mg/L		92	70 - 130
Hexachlorobutadiene	0.0500	0.05002		mg/L		100	70 - 130
Tetrachloroethene	0.0500	0.04767		mg/L		95	70 - 130
Trichloroethene	0.0500	0.04963		mg/L		99	70 - 130
Vinyl chloride	0.0250	0.04735	*+	mg/L		189	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*86*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*

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

Lab Sample ID: LCSD 680-827735/5
Matrix: Solid
Analysis Batch: 827735

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-Dichloroethene			0.0500	0.05230		mg/L		105	70 - 130	0	20
1,2-Dichloroethane			0.0500	0.04964		mg/L		99	70 - 130	4	50
1,4-Dichlorobenzene			0.0500	0.05098		mg/L		102	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2648		mg/L		106	69 - 114	6	30
Benzene			0.0500	0.05345		mg/L		107	70 - 130	0	30
Carbon tetrachloride			0.0500	0.04849		mg/L		97	70 - 130	1	30
Chlorobenzene			0.0500	0.05185		mg/L		104	70 - 130	1	30
Chloroform			0.0500	0.04747		mg/L		95	70 - 130	3	30
Hexachlorobutadiene			0.0500	0.04903		mg/L		98	70 - 130	2	20
Tetrachloroethene			0.0500	0.04793		mg/L		96	70 - 130	1	30
Trichloroethene			0.0500	0.05065		mg/L		101	70 - 130	2	30
Vinyl chloride			0.0250	0.04696	*+	mg/L		188	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*87*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*

Lab Sample ID: LB 680-827107/1-A
Matrix: Solid
Analysis Batch: 827478

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/14/24 14:41	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/14/24 14:41	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/14/24 14:41	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/14/24 14:41	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/14/24 14:41	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/14/24 14:41	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/14/24 14:41	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/14/24 14:41	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/14/24 14:41	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/14/24 14:41	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/14/24 14:41	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/14/24 14:41	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/14/24 14:41*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/14/24 14:41*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/14/24 14:41*	*20*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*03/14/24 14:41*	*20*

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

Lab Sample ID: 680-247840-17 MS
Matrix: Solid
Analysis Batch: 827478

Client Sample ID: WAP-05a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.00720		1.00	1.015		mg/L		102	70 - 130
1,2-Dichloroethane	<0.0100		1.00	1.058		mg/L		106	70 - 130
1,4-Dichlorobenzene	<0.00920		1.00	0.9903		mg/L		99	70 - 130
2-Butanone (MEK)	<0.0680		5.00	4.902		mg/L		98	69 - 114
Benzene	<0.00860		1.00	0.9726		mg/L		97	70 - 130
Carbon tetrachloride	<0.00660		1.00	1.062		mg/L		106	70 - 130
Chlorobenzene	<0.00520		1.00	1.014		mg/L		101	70 - 130
Chloroform	<0.0100		1.00	1.052		mg/L		105	70 - 130
Hexachlorobutadiene	<0.0500		1.00	0.7678		mg/L		77	70 - 130
Tetrachloroethene	0.0405		1.00	1.039		mg/L		100	70 - 130
Trichloroethene	<0.00960		1.00	1.040		mg/L		104	70 - 130
Vinyl chloride	<0.0100	F1	0.500	1.078	F1	mg/L		216	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*

Lab Sample ID: 680-247840-17 MSD
Matrix: Solid
Analysis Batch: 827478

Client Sample ID: WAP-05a
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	<0.00720		1.00	0.9896		mg/L		99	70 - 130	3	20
1,2-Dichloroethane	<0.0100		1.00	1.056		mg/L		106	70 - 130	0	50
1,4-Dichlorobenzene	<0.00920		1.00	0.9749		mg/L		97	70 - 130	2	20
2-Butanone (MEK)	<0.0680		5.00	5.350		mg/L		107	69 - 114	9	20
Benzene	<0.00860		1.00	0.9834		mg/L		98	70 - 130	1	20
Carbon tetrachloride	<0.00660		1.00	1.034		mg/L		103	70 - 130	3	20
Chlorobenzene	<0.00520		1.00	1.007		mg/L		101	70 - 130	1	20
Chloroform	<0.0100		1.00	1.052		mg/L		105	70 - 130	0	20
Hexachlorobutadiene	<0.0500		1.00	0.7876		mg/L		79	70 - 130	3	20
Tetrachloroethene	0.0405		1.00	1.032		mg/L		99	70 - 130	1	20
Trichloroethene	<0.00960		1.00	1.019		mg/L		102	70 - 130	2	20
Vinyl chloride	<0.0100	F1	0.500	1.077	F1	mg/L		215	66 - 129	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*

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

Lab Sample ID: LB 680-827405/1-A
Matrix: Solid
Analysis Batch: 827735

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene - DL	<0.00720		0.0200	0.00720	mg/L			03/15/24 13:32	20
1,2-Dichloroethane - DL	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20
1,4-Dichlorobenzene - DL	<0.00920		0.0200	0.00920	mg/L			03/15/24 13:32	20
2-Butanone (MEK) - DL	<0.0680		0.200	0.0680	mg/L			03/15/24 13:32	20
Benzene - DL	<0.00860		0.0200	0.00860	mg/L			03/15/24 13:32	20
Carbon tetrachloride - DL	<0.00660		0.0200	0.00660	mg/L			03/15/24 13:32	20
Chlorobenzene - DL	<0.00520		0.0200	0.00520	mg/L			03/15/24 13:32	20
Chloroform - DL	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20
Hexachlorobutadiene - DL	<0.0500		0.100	0.0500	mg/L			03/15/24 13:32	20
Tetrachloroethene - DL	<0.0150		0.0200	0.0150	mg/L			03/15/24 13:32	20
Trichloroethene - DL	<0.00960		0.0200	0.00960	mg/L			03/15/24 13:32	20
Vinyl chloride - DL	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr) - DL	*98*		*70 - 130*		*03/15/24 13:32*	*20*
Dibromofluoromethane (Surr) - DL	*90*		*70 - 130*		*03/15/24 13:32*	*20*
Toluene-d8 (Surr) - DL	*95*		*70 - 130*		*03/15/24 13:32*	*20*
1,2-Dichloroethane-d4 (Surr) - DL	*81*		*60 - 124*		*03/15/24 13:32*	*20*

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

Lab Sample ID: MB 680-827437/1-A
Matrix: Solid
Analysis Batch: 827604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/14/24 07:46	03/14/24 16:41	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/14/24 07:46	03/14/24 16:41	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/14/24 07:46	03/14/24 16:41	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/14/24 07:46	03/14/24 16:41	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/14/24 07:46	03/14/24 16:41	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/14/24 07:46	03/14/24 16:41	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/14/24 07:46	03/14/24 16:41	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/14/24 07:46	03/14/24 16:41	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/14/24 07:46	03/14/24 16:41	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/14/24 07:46	03/14/24 16:41	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/14/24 07:46	03/14/24 16:41	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/14/24 07:46	03/14/24 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 130*	*03/14/24 07:46*	*03/14/24 16:41*	*1*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*	*03/14/24 07:46*	*03/14/24 16:41*	*1*
2-Fluorophenol (Surr)	*40*		*10 - 130*	*03/14/24 07:46*	*03/14/24 16:41*	*1*
Terphenyl-d14 (Surr)	*75*		*35 - 131*	*03/14/24 07:46*	*03/14/24 16:41*	*1*
Phenol-d5 (Surr)	*27*		*10 - 130*	*03/14/24 07:46*	*03/14/24 16:41*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/14/24 07:46*	*03/14/24 16:41*	*1*

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

Lab Sample ID: LCS 680-827437/2-A
Matrix: Solid
Analysis Batch: 827604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1182		mg/L		59	13 - 130
Pyridine	0.400	0.1335		mg/L		33	10 - 130
Hexachlorobenzene	0.200	0.1408		mg/L		70	30 - 130
2,4-Dinitrotoluene	0.200	0.1456		mg/L		73	37 - 130
Hexachloroethane	0.200	0.1236		mg/L		62	12 - 130
Hexachlorobutadiene	0.200	0.1175		mg/L		59	12 - 130
Pentachlorophenol	0.400	0.3141		mg/L		79	24 - 130
2,4,6-Trichlorophenol	0.200	0.1340		mg/L		67	28 - 130
2,4,5-Trichlorophenol	0.200	0.1351		mg/L		68	26 - 130
Nitrobenzene	0.200	0.1379		mg/L		69	32 - 130
2-Methylphenol	0.200	0.1215		mg/L		61	21 - 130
3 & 4 Methylphenol	0.200	0.1156		mg/L		58	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*67*		*30 - 130*
2-Fluorobiphenyl (Surr)	*58*		*25 - 130*
2-Fluorophenol (Surr)	*37*		*10 - 130*
Terphenyl-d14 (Surr)	*67*		*35 - 131*
Phenol-d5 (Surr)	*27*		*10 - 130*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*

Lab Sample ID: LB1 680-827104/1-B
Matrix: Solid
Analysis Batch: 827604

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 827437

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/14/24 17:07	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/14/24 07:46	03/14/24 17:07	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/14/24 07:46	03/14/24 17:07	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/14/24 07:46	03/14/24 17:07	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/14/24 17:07	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/14/24 07:46	03/14/24 17:07	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/14/24 07:46	03/14/24 17:07	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/14/24 07:46	03/14/24 17:07	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/14/24 07:46	03/14/24 17:07	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/14/24 07:46	03/14/24 17:07	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/14/24 07:46	03/14/24 17:07	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/14/24 07:46	03/14/24 17:07	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 130*	*03/14/24 07:46*	*03/14/24 17:07*	*1*
2-Fluorobiphenyl (Surr)	*55*		*25 - 130*	*03/14/24 07:46*	*03/14/24 17:07*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 130*	*03/14/24 07:46*	*03/14/24 17:07*	*1*
Terphenyl-d14 (Surr)	*73*		*35 - 131*	*03/14/24 07:46*	*03/14/24 17:07*	*1*
Phenol-d5 (Surr)	*24*		*10 - 130*	*03/14/24 07:46*	*03/14/24 17:07*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/14/24 07:46*	*03/14/24 17:07*	*1*

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

Lab Sample ID: 680-247840-1 MS
Matrix: Solid
Analysis Batch: 827604

Client Sample ID: NH-15
Prep Type: TCLP
Prep Batch: 827437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.5737		mg/L		57	13 - 130
Pyridine	<0.0370	F2	2.00	0.5602		mg/L		28	10 - 130
Hexachlorobenzene	<0.00800		1.00	0.8268		mg/L		83	30 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.8208		mg/L		82	37 - 130
Hexachloroethane	<0.0180		1.00	0.6151		mg/L		62	12 - 130
Hexachlorobutadiene	<0.0200		1.00	0.5902		mg/L		59	12 - 130
Pentachlorophenol	<0.0500		2.00	1.851		mg/L		93	24 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.7048		mg/L		70	28 - 130
2,4,5-Trichlorophenol	<0.0160		1.00	0.7226		mg/L		72	26 - 130
Nitrobenzene	<0.0180		1.00	0.6933		mg/L		69	32 - 130
2-Methylphenol	<0.00900		1.00	0.5803		mg/L		58	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.5493		mg/L		55	19 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*74*		*30 - 130*
2-Fluorobiphenyl (Surr)	*60*		*25 - 130*
2-Fluorophenol (Surr)	*35*		*10 - 130*
Terphenyl-d14 (Surr)	*77*		*35 - 131*
Phenol-d5 (Surr)	*25*		*10 - 130*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*

Lab Sample ID: 680-247840-1 MSD
Matrix: Solid
Analysis Batch: 827604

Client Sample ID: NH-15
Prep Type: TCLP
Prep Batch: 827437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.5340		mg/L		53	13 - 130	7	50
Pyridine	<0.0370	F2	2.00	0.3172	F2	mg/L		16	10 - 130	55	50
Hexachlorobenzene	<0.00800		1.00	0.6908		mg/L		69	30 - 130	18	50
2,4-Dinitrotoluene	<0.0120		1.00	0.6801		mg/L		68	37 - 130	19	50
Hexachloroethane	<0.0180		1.00	0.5712		mg/L		57	12 - 130	7	50
Hexachlorobutadiene	<0.0200		1.00	0.5397		mg/L		54	12 - 130	9	50
Pentachlorophenol	<0.0500		2.00	1.567		mg/L		78	24 - 130	17	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.5952		mg/L		60	28 - 130	17	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.6080		mg/L		61	26 - 130	17	50
Nitrobenzene	<0.0180		1.00	0.6051		mg/L		61	32 - 130	14	50
2-Methylphenol	<0.00900		1.00	0.5467		mg/L		55	21 - 130	6	50
3 & 4 Methylphenol	<0.00700		1.00	0.5161		mg/L		52	19 - 130	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 130*
2-Fluorobiphenyl (Surr)	*52*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Terphenyl-d14 (Surr)	*64*		*35 - 131*
Phenol-d5 (Surr)	*24*		*10 - 130*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*

GC/MS VOA

Leach Batch: 827107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-2	NH-15a	TCLP	Solid	1311	
680-247840-3	NH-15b	TCLP	Solid	1311	
680-247840-5	WAP-01a	TCLP	Solid	1311	
680-247840-6	WAP-01b	TCLP	Solid	1311	
680-247840-8	WAP-02a	TCLP	Solid	1311	
680-247840-9	WAP-02b	TCLP	Solid	1311	
680-247840-11	WAP-03a	TCLP	Solid	1311	
680-247840-12	WAP-03b	TCLP	Solid	1311	
680-247840-14	WAP-04a	TCLP	Solid	1311	
680-247840-15	WAP-04b	TCLP	Solid	1311	
680-247840-17	WAP-05a	TCLP	Solid	1311	
LB 680-827107/1-A	Method Blank	TCLP	Solid	1311	
680-247840-17 MS	WAP-05a	TCLP	Solid	1311	
680-247840-17 MSD	WAP-05a	TCLP	Solid	1311	

Leach Batch: 827405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-18 - DL	WAP-05b	TCLP	Solid	1311	
680-247840-20 - DL	WAP-06a	TCLP	Solid	1311	
680-247840-21 - DL	WAP-06b	TCLP	Solid	1311	
LB 680-827405/1-A - DL	Method Blank	TCLP	Solid	1311	

Analysis Batch: 827478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-2	NH-15a	TCLP	Solid	8260D	827107
680-247840-3	NH-15b	TCLP	Solid	8260D	827107
680-247840-5	WAP-01a	TCLP	Solid	8260D	827107
680-247840-6	WAP-01b	TCLP	Solid	8260D	827107
680-247840-8	WAP-02a	TCLP	Solid	8260D	827107
680-247840-9	WAP-02b	TCLP	Solid	8260D	827107
680-247840-11	WAP-03a	TCLP	Solid	8260D	827107
680-247840-12	WAP-03b	TCLP	Solid	8260D	827107
680-247840-14	WAP-04a	TCLP	Solid	8260D	827107
680-247840-15	WAP-04b	TCLP	Solid	8260D	827107
680-247840-17	WAP-05a	TCLP	Solid	8260D	827107
LB 680-827107/1-A	Method Blank	TCLP	Solid	8260D	827107
MB 680-827478/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-827478/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827478/5	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247840-17 MS	WAP-05a	TCLP	Solid	8260D	827107
680-247840-17 MSD	WAP-05a	TCLP	Solid	8260D	827107

Analysis Batch: 827731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-827731/11	Method Blank	Total/NA	Solid	8260D	
LCS 680-827731/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827731/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-18 - DL	WAP-05b	TCLP	Solid	8260D	827405

GC/MS VOA (Continued)

Analysis Batch: 827735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-20 - DL	WAP-06a	TCLP	Solid	8260D	827405
680-247840-21 - DL	WAP-06b	TCLP	Solid	8260D	827405
LB 680-827405/1-A - DL	Method Blank	TCLP	Solid	8260D	827405
MB 680-827735/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-827735/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827735/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 827104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-1	NH-15	TCLP	Solid	1311	
680-247840-4	WAP-01	TCLP	Solid	1311	
680-247840-7	WAP-02	TCLP	Solid	1311	
680-247840-10	WAP-03	TCLP	Solid	1311	
680-247840-13	WAP-04	TCLP	Solid	1311	
680-247840-16	WAP-05	TCLP	Solid	1311	
680-247840-19	WAP-06	TCLP	Solid	1311	
LB1 680-827104/1-B	Method Blank	TCLP	Solid	1311	
680-247840-1 MS	NH-15	TCLP	Solid	1311	
680-247840-1 MSD	NH-15	TCLP	Solid	1311	

Prep Batch: 827437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-1	NH-15	TCLP	Solid	3510C	827104
680-247840-4	WAP-01	TCLP	Solid	3510C	827104
680-247840-7	WAP-02	TCLP	Solid	3510C	827104
680-247840-10	WAP-03	TCLP	Solid	3510C	827104
680-247840-13	WAP-04	TCLP	Solid	3510C	827104
680-247840-16	WAP-05	TCLP	Solid	3510C	827104
680-247840-19	WAP-06	TCLP	Solid	3510C	827104
LB1 680-827104/1-B	Method Blank	TCLP	Solid	3510C	827104
MB 680-827437/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-827437/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-247840-1 MS	NH-15	TCLP	Solid	3510C	827104
680-247840-1 MSD	NH-15	TCLP	Solid	3510C	827104

Analysis Batch: 827604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247840-1	NH-15	TCLP	Solid	8270E	827437
680-247840-4	WAP-01	TCLP	Solid	8270E	827437
680-247840-7	WAP-02	TCLP	Solid	8270E	827437
680-247840-10	WAP-03	TCLP	Solid	8270E	827437
680-247840-13	WAP-04	TCLP	Solid	8270E	827437
680-247840-16	WAP-05	TCLP	Solid	8270E	827437
680-247840-19	WAP-06	TCLP	Solid	8270E	827437
LB1 680-827104/1-B	Method Blank	TCLP	Solid	8270E	827437
MB 680-827437/1-A	Method Blank	Total/NA	Solid	8270E	827437
LCS 680-827437/2-A	Lab Control Sample	Total/NA	Solid	8270E	827437
680-247840-1 MS	NH-15	TCLP	Solid	8270E	827437
680-247840-1 MSD	NH-15	TCLP	Solid	8270E	827437

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: NH-15

Lab Sample ID: 680-247840-1

Date Collected: 03/08/24 12:30

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.00 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/14/24 18:51	OK	EET SAV

Instrument ID: CMSK

Client Sample ID: NH-15a

Lab Sample ID: 680-247840-2

Date Collected: 03/08/24 12:30

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 15:46	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: NH-15b

Lab Sample ID: 680-247840-3

Date Collected: 03/08/24 12:35

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.07 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 16:07	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-01

Lab Sample ID: 680-247840-4

Date Collected: 03/08/24 12:40

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/15/24 00:30	OK	EET SAV

Instrument ID: CMSK

Client Sample ID: WAP-01a

Lab Sample ID: 680-247840-5

Date Collected: 03/08/24 12:40

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 16:29	P1C	EET SAV

Instrument ID: CMSAJ

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: WAP-01b

Lab Sample ID: 680-247840-6

Date Collected: 03/08/24 12:45
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 16:50	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-02

Lab Sample ID: 680-247840-7

Date Collected: 03/08/24 12:50
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.00 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/15/24 00:56	OK	EET SAV

Instrument ID: CMSK

Client Sample ID: WAP-02a

Lab Sample ID: 680-247840-8

Date Collected: 03/08/24 12:50
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.04 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 17:12	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-02b

Lab Sample ID: 680-247840-9

Date Collected: 03/08/24 12:55
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 17:33	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-03

Lab Sample ID: 680-247840-10

Date Collected: 03/08/24 13:00
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.08 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/15/24 01:23	OK	EET SAV

Instrument ID: CMSK

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: WAP-03a

Lab Sample ID: 680-247840-11

Date Collected: 03/08/24 13:00

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.03 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 17:55	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-03b

Lab Sample ID: 680-247840-12

Date Collected: 03/08/24 13:05

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 18:16	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-04

Lab Sample ID: 680-247840-13

Date Collected: 03/08/24 13:10

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/15/24 01:48	OK	EET SAV

Instrument ID: CMSK

Client Sample ID: WAP-04a

Lab Sample ID: 680-247840-14

Date Collected: 03/08/24 13:10

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.06 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 18:38	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-04b

Lab Sample ID: 680-247840-15

Date Collected: 03/08/24 13:15

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 18:59	P1C	EET SAV

Instrument ID: CMSAJ

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: WAP-05

Date Collected: 03/08/24 13:20
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.04 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/15/24 02:15	OK	EET SAV

Instrument ID: CMSK

Client Sample ID: WAP-05a

Date Collected: 03/08/24 13:20
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.07 g	500 mL	827107	03/12/24 20:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827478	03/14/24 19:21	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-05b

Date Collected: 03/08/24 13:25
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311	DL		25.08 g	500 mL	827405	03/13/24 22:30	JJ	EET SAV
TCLP	Analysis	8260D	DL	20	5 mL	5 mL	827735	03/15/24 14:57	AA	EET SAV

Instrument ID: CMSP2

Client Sample ID: WAP-06

Date Collected: 03/08/24 13:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	827104	03/12/24 20:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827437	03/14/24 07:46	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827604	03/15/24 02:41	OK	EET SAV

Instrument ID: CMSK

Client Sample ID: WAP-06a

Date Collected: 03/08/24 13:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311	DL		25.00 g	500 mL	827405	03/13/24 22:30	JJ	EET SAV
TCLP	Analysis	8260D	DL	20	5 mL	5 mL	827735	03/15/24 15:19	AA	EET SAV

Instrument ID: CMSP2

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Client Sample ID: WAP-06b
Date Collected: 03/08/24 13:35
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247840-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311	DL		25.04 g	500 mL	827405	03/13/24 22:30	JJ	EET SAV
TCLP	Analysis	8260D	DL	20	5 mL	5 mL	827735	03/15/24 15:40	AA	EET SAV
	Instrument ID: CMSP2									

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: 680-247840-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247840-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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

Client Information	Sampler: Les Abbott	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water			1311/8260D - TCLP VOCs	1311/8270E - TCLP SVOCs							Total Number of containers	Special Instructions/Note:
Preservation Code:							EF	N	A			N	N								
NH-15	3/8/24	12:30	C	S				X					X								
NH-15a		12:30	G									X									
NH-15b		12:35	G									X									
WAP-01		12:40	C										X								
WAP-01a		12:40	G									X									
WAP-01b		12:45	G									X									
WAP-02		12:50	C										X								
WAP-02a		12:50	G									X									
WAP-02b		12:55	G									X									
WAP-03		13:00	C										X								
WAP-03a	↓	13:00	G	↓								X									

680-247840 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
Luke J Abbott	3/8/24 17:00				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Munro	Date/Time: 3/9/24 0933	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.1/1.1

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Les Abbott	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:	Analysis Requested		Job #:
Address: 2401 Brentwood Road Suite 107	Due Date 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:
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water			1311/8260D - TCLP VOCs	1311/8270E - TCLP SVOCs						Total Number of containers	Special Instructions/Note:
Preservation Code:							EF	N	A			N	N							
WAP - 03b	3/8/24	13:05	G	S								X								
WAP - 04		13:10	C										X							
WAP - 04a		13:10	G									X								
WAP - 04b		13:15	G									X								
WAP - 05		13:20	C										X							
WAP - 05a		13:20	G									X								
WAP - 05b		13:25	G									X								
WAP - 06		13:30	C										X							
WAP - 06a		13:30	G									X								
WAP - 06b		13:35	G									X								
Trip Blank-20240308c				W			X													on hold

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
Les Abbott	3/9/24 17:00				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Munro	Date/Time: 3/9/24 0933	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1/1.1

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247840-1

Login Number: 247840

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/19/2024 2:29:28 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-248051-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
3/19/2024 2:29:28 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

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.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-248051-1	WAP-07a	Solid	03/11/24 17:00	03/14/24 10:22
680-248051-2	WAP-07b	Solid	03/11/24 17:10	03/14/24 10:22
680-248051-3	WAP-07	Solid	03/11/24 17:10	03/14/24 10:22
680-248051-4	WAP-08a	Solid	03/11/24 17:20	03/14/24 10:22
680-248051-5	WAP-08b	Solid	03/11/24 17:30	03/14/24 10:22
680-248051-6	WAP-08	Solid	03/11/24 17:20	03/14/24 10:22

Job ID: 680-248051-1 Eurofins Savannah

Job Narrative
680-248051-1

Receipt
The samples were received on 3/14/2024 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

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

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

Client Sample ID: WAP-07a

Lab Sample ID: 680-248051-1

Date Collected: 03/11/24 17:00
Matrix: Solid
Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 17:16	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:16	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 17:16	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			03/17/24 17:16	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 17:16	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 17:16	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/17/24 17:16	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:16	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 17:16	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 17:16	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 17:16	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/17/24 17:16*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/17/24 17:16*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/17/24 17:16*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*03/17/24 17:16*	*20*

Client Sample ID: WAP-07b

Lab Sample ID: 680-248051-2

Date Collected: 03/11/24 17:10
Matrix: Solid
Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 17:37	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:37	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 17:37	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			03/17/24 17:37	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 17:37	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 17:37	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/17/24 17:37	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:37	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 17:37	20
Tetrachloroethene	**0.0199**	**J**	0.0200	0.0150	mg/L			03/17/24 17:37	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 17:37	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/17/24 17:37*	*20*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/17/24 17:37*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/17/24 17:37*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*03/17/24 17:37*	*20*

Client Sample ID: WAP-07

Lab Sample ID: 680-248051-3

Date Collected: 03/11/24 17:10
Matrix: Solid
Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/17/24 08:25	03/18/24 18:29	1

Client Sample ID: WAP-07

Lab Sample ID: 680-248051-3

Date Collected: 03/11/24 17:10

Matrix: Solid

Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370		0.250	0.0370	mg/L		03/17/24 08:25	03/18/24 18:29	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/17/24 08:25	03/18/24 18:29	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/17/24 08:25	03/18/24 18:29	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/17/24 08:25	03/18/24 18:29	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/17/24 08:25	03/18/24 18:29	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/17/24 08:25	03/18/24 18:29	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/17/24 08:25	03/18/24 18:29	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/17/24 08:25	03/18/24 18:29	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/17/24 08:25	03/18/24 18:29	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/17/24 08:25	03/18/24 18:29	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/17/24 08:25	03/18/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*30 - 130*	*03/17/24 08:25*	*03/18/24 18:29*	*1*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/17/24 08:25*	*03/18/24 18:29*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 130*	*03/17/24 08:25*	*03/18/24 18:29*	*1*
Terphenyl-d14 (Surr)	*79*		*35 - 131*	*03/17/24 08:25*	*03/18/24 18:29*	*1*
Phenol-d5 (Surr)	*30*		*10 - 130*	*03/17/24 08:25*	*03/18/24 18:29*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*	*03/17/24 08:25*	*03/18/24 18:29*	*1*

Client Sample ID: WAP-08a

Lab Sample ID: 680-248051-4

Date Collected: 03/11/24 17:20

Matrix: Solid

Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 17:59	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:59	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 17:59	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			03/17/24 17:59	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 17:59	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 17:59	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/17/24 17:59	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:59	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 17:59	20
Tetrachloroethene	**0.251**		0.0200	0.0150	mg/L			03/17/24 17:59	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 17:59	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 17:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/17/24 17:59*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/17/24 17:59*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/17/24 17:59*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*03/17/24 17:59*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

Client Sample ID: WAP-08b

Lab Sample ID: 680-248051-5

Date Collected: 03/11/24 17:30

Matrix: Solid

Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 18:20	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 18:20	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 18:20	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			03/17/24 18:20	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 18:20	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 18:20	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/17/24 18:20	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 18:20	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 18:20	20
Tetrachloroethene	**0.0260**		0.0200	0.0150	mg/L			03/17/24 18:20	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 18:20	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 18:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/17/24 18:20*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/17/24 18:20*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/17/24 18:20*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*03/17/24 18:20*	*20*

Client Sample ID: WAP-08

Lab Sample ID: 680-248051-6

Date Collected: 03/11/24 17:20

Matrix: Solid

Date Received: 03/14/24 10:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/17/24 08:25	03/18/24 19:21	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/17/24 08:25	03/18/24 19:21	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/17/24 08:25	03/18/24 19:21	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/17/24 08:25	03/18/24 19:21	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/17/24 08:25	03/18/24 19:21	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/17/24 08:25	03/18/24 19:21	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/17/24 08:25	03/18/24 19:21	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/17/24 08:25	03/18/24 19:21	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/17/24 08:25	03/18/24 19:21	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/17/24 08:25	03/18/24 19:21	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/17/24 08:25	03/18/24 19:21	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/17/24 08:25	03/18/24 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*	*03/17/24 08:25*	*03/18/24 19:21*	*1*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*	*03/17/24 08:25*	*03/18/24 19:21*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 130*	*03/17/24 08:25*	*03/18/24 19:21*	*1*
Terphenyl-d14 (Surr)	*78*		*35 - 131*	*03/17/24 08:25*	*03/18/24 19:21*	*1*
Phenol-d5 (Surr)	*31*		*10 - 130*	*03/17/24 08:25*	*03/18/24 19:21*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/17/24 08:25*	*03/18/24 19:21*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

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

Lab Sample ID: MB 680-827981/8
Matrix: Solid
Analysis Batch: 827981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/17/24 13:45	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/17/24 13:45	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/17/24 13:45	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/17/24 13:45	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/17/24 13:45	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/17/24 13:45	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/17/24 13:45	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/17/24 13:45	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/17/24 13:45	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/17/24 13:45*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/17/24 13:45*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/17/24 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*03/17/24 13:45*	*1*

Lab Sample ID: LCS 680-827981/4
Matrix: Solid
Analysis Batch: 827981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04959		mg/L		99	70 - 130
1,2-Dichloroethane	0.0500	0.05160		mg/L		103	70 - 130
1,4-Dichlorobenzene	0.0500	0.05169		mg/L		103	70 - 130
2-Butanone (MEK)	0.250	0.2791		mg/L		112	69 - 114
Benzene	0.0500	0.04954		mg/L		99	70 - 130
Carbon tetrachloride	0.0500	0.04837		mg/L		97	70 - 130
Chlorobenzene	0.0500	0.05235		mg/L		105	70 - 130
Chloroform	0.0500	0.05204		mg/L		104	70 - 130
Hexachlorobutadiene	0.0500	0.05118		mg/L		102	70 - 130
Tetrachloroethene	0.0500	0.04972		mg/L		99	70 - 130
Trichloroethene	0.0500	0.05065		mg/L		101	70 - 130
Vinyl chloride	0.0500	0.05265		mg/L		105	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*

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

Lab Sample ID: LCSD 680-827981/5
Matrix: Solid
Analysis Batch: 827981

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-Dichloroethene			0.0500	0.04997		mg/L		100	70 - 130	1	20
1,2-Dichloroethane			0.0500	0.05315		mg/L		106	70 - 130	3	50
1,4-Dichlorobenzene			0.0500	0.05002		mg/L		100	70 - 130	3	30
2-Butanone (MEK)			0.250	0.2990	*+	mg/L		120	69 - 114	7	30
Benzene			0.0500	0.05072		mg/L		101	70 - 130	2	30
Carbon tetrachloride			0.0500	0.04834		mg/L		97	70 - 130	0	30
Chlorobenzene			0.0500	0.05101		mg/L		102	70 - 130	3	30
Chloroform			0.0500	0.05267		mg/L		105	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.04994		mg/L		100	70 - 130	2	20
Tetrachloroethene			0.0500	0.04884		mg/L		98	70 - 130	2	30
Trichloroethene			0.0500	0.05188		mg/L		104	70 - 130	2	30
Vinyl chloride			0.0500	0.05178		mg/L		104	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*

Lab Sample ID: LB 680-827653/1-A
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 14:24	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 14:24	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/17/24 14:24	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 14:24	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 14:24	20
Chlorobenzene	0.005402	J	0.0200	0.00520	mg/L			03/17/24 14:24	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 14:24	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 14:24	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 14:24	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/17/24 14:24*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/17/24 14:24*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/17/24 14:24*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*03/17/24 14:24*	*20*

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

Lab Sample ID: LB 680-827873/1-A
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 15:07	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:07	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 15:07	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/17/24 15:07	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 15:07	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 15:07	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/17/24 15:07	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:07	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 15:07	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 15:07	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 15:07	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:07	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/17/24 15:07*	*20*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/17/24 15:07*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/17/24 15:07*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*03/17/24 15:07*	*20*

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

Lab Sample ID: MB 680-827967/1-A
Matrix: Solid
Analysis Batch: 828151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/17/24 08:25	03/18/24 15:28	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/17/24 08:25	03/18/24 15:28	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/17/24 08:25	03/18/24 15:28	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/17/24 08:25	03/18/24 15:28	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/17/24 08:25	03/18/24 15:28	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/17/24 08:25	03/18/24 15:28	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/17/24 08:25	03/18/24 15:28	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/17/24 08:25	03/18/24 15:28	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/17/24 08:25	03/18/24 15:28	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/17/24 08:25	03/18/24 15:28	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/17/24 08:25	03/18/24 15:28	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/17/24 08:25	03/18/24 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*30 - 130*	*03/17/24 08:25*	*03/18/24 15:28*	*1*
2-Fluorobiphenyl (Surr)	*71*		*25 - 130*	*03/17/24 08:25*	*03/18/24 15:28*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 130*	*03/17/24 08:25*	*03/18/24 15:28*	*1*
Terphenyl-d14 (Surr)	*82*		*35 - 131*	*03/17/24 08:25*	*03/18/24 15:28*	*1*
Phenol-d5 (Surr)	*28*		*10 - 130*	*03/17/24 08:25*	*03/18/24 15:28*	*1*
Nitrobenzene-d5 (Surr)	*77*		*30 - 130*	*03/17/24 08:25*	*03/18/24 15:28*	*1*

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

Lab Sample ID: LCS 680-827967/2-A
Matrix: Solid
Analysis Batch: 828151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1365		mg/L		68	13 - 130
Pyridine	0.400	0.1440		mg/L		36	10 - 130
Hexachlorobenzene	0.200	0.1683		mg/L		84	30 - 130
2,4-Dinitrotoluene	0.200	0.1688		mg/L		84	37 - 130
Hexachloroethane	0.200	0.1450		mg/L		73	12 - 130
Hexachlorobutadiene	0.200	0.1420		mg/L		71	12 - 130
Pentachlorophenol	0.400	0.3553		mg/L		89	24 - 130
2,4,6-Trichlorophenol	0.200	0.1538		mg/L		77	28 - 130
2,4,5-Trichlorophenol	0.200	0.1531		mg/L		77	26 - 130
Nitrobenzene	0.200	0.1641		mg/L		82	32 - 130
2-Methylphenol	0.200	0.1272		mg/L		64	21 - 130
3 & 4 Methylphenol	0.200	0.1202		mg/L		60	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*80*		*30 - 130*
2-Fluorobiphenyl (Surr)	*68*		*25 - 130*
2-Fluorophenol (Surr)	*37*		*10 - 130*
Terphenyl-d14 (Surr)	*77*		*35 - 131*
Phenol-d5 (Surr)	*27*		*10 - 130*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*

Lab Sample ID: LB1 680-827874/1-B
Matrix: Solid
Analysis Batch: 828151

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 827967

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/17/24 08:25	03/18/24 16:20	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/17/24 08:25	03/18/24 16:20	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/17/24 08:25	03/18/24 16:20	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/17/24 08:25	03/18/24 16:20	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/17/24 08:25	03/18/24 16:20	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/17/24 08:25	03/18/24 16:20	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/17/24 08:25	03/18/24 16:20	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/17/24 08:25	03/18/24 16:20	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/17/24 08:25	03/18/24 16:20	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/17/24 08:25	03/18/24 16:20	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/17/24 08:25	03/18/24 16:20	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/17/24 08:25	03/18/24 16:20	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*30 - 130*	*03/17/24 08:25*	*03/18/24 16:20*	*1*
2-Fluorobiphenyl (Surr)	*60*		*25 - 130*	*03/17/24 08:25*	*03/18/24 16:20*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/17/24 08:25*	*03/18/24 16:20*	*1*
Terphenyl-d14 (Surr)	*74*		*35 - 131*	*03/17/24 08:25*	*03/18/24 16:20*	*1*
Phenol-d5 (Surr)	*26*		*10 - 130*	*03/17/24 08:25*	*03/18/24 16:20*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/17/24 08:25*	*03/18/24 16:20*	*1*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

GC/MS VOA

Leach Batch: 827653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-827653/1-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 827873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248051-1	WAP-07a	TCLP	Solid	1311	
680-248051-2	WAP-07b	TCLP	Solid	1311	
680-248051-4	WAP-08a	TCLP	Solid	1311	
680-248051-5	WAP-08b	TCLP	Solid	1311	
LB 680-827873/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 827981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248051-1	WAP-07a	TCLP	Solid	8260D	827873
680-248051-2	WAP-07b	TCLP	Solid	8260D	827873
680-248051-4	WAP-08a	TCLP	Solid	8260D	827873
680-248051-5	WAP-08b	TCLP	Solid	8260D	827873
LB 680-827653/1-A	Method Blank	TCLP	Solid	8260D	827653
LB 680-827873/1-A	Method Blank	TCLP	Solid	8260D	827873
MB 680-827981/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-827981/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827981/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Leach Batch: 827874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248051-3	WAP-07	TCLP	Solid	1311	
680-248051-6	WAP-08	TCLP	Solid	1311	
LB1 680-827874/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 827967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248051-3	WAP-07	TCLP	Solid	3510C	827874
680-248051-6	WAP-08	TCLP	Solid	3510C	827874
LB1 680-827874/1-B	Method Blank	TCLP	Solid	3510C	827874
MB 680-827967/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-827967/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 828151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248051-3	WAP-07	TCLP	Solid	8270E	827967
680-248051-6	WAP-08	TCLP	Solid	8270E	827967
LB1 680-827874/1-B	Method Blank	TCLP	Solid	8270E	827967
MB 680-827967/1-A	Method Blank	Total/NA	Solid	8270E	827967
LCS 680-827967/2-A	Lab Control Sample	Total/NA	Solid	8270E	827967

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

Client Sample ID: WAP-07a
Lab Sample ID: 680-248051-1
Date Collected: 03/11/24 17:00
Matrix: Solid
Date Received: 03/14/24 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827873	03/15/24 18:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827981	03/17/24 17:16	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-07b
Lab Sample ID: 680-248051-2
Date Collected: 03/11/24 17:10
Matrix: Solid
Date Received: 03/14/24 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.01 g	500 mL	827873	03/15/24 18:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827981	03/17/24 17:37	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-07
Lab Sample ID: 680-248051-3
Date Collected: 03/11/24 17:10
Matrix: Solid
Date Received: 03/14/24 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	827874	03/15/24 18:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827967	03/17/24 08:25	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	828151	03/18/24 18:29	T1C	EET SAV

Instrument ID: CMSK

Client Sample ID: WAP-08a
Lab Sample ID: 680-248051-4
Date Collected: 03/11/24 17:20
Matrix: Solid
Date Received: 03/14/24 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827873	03/15/24 18:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827981	03/17/24 17:59	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-08b
Lab Sample ID: 680-248051-5
Date Collected: 03/11/24 17:30
Matrix: Solid
Date Received: 03/14/24 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.08 g	500 mL	827873	03/15/24 18:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827981	03/17/24 18:20	P1C	EET SAV

Instrument ID: CMSAJ

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

Client Sample ID: WAP-08
Date Collected: 03/11/24 17:20
Date Received: 03/14/24 10:22

Lab Sample ID: 680-248051-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.08 g	2000 mL	827874	03/15/24 18:00	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827967	03/17/24 08:25	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	828151	03/18/24 19:21	T1C	EET SAV
	Instrument ID: CMSK									

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: 680-248051-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248051-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): 3 days			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water		1311/8260D - TCLP VOCs	1311/8270E - TCLP SVOCs							Total Number of containers	Special Instructions/Note:
			Preservation Code:				EF	N	A		N	N								
WAP-07a	3/11	1700	G	S							X									
WAP-07b		1710	G	S							X									
WAP-07		1700	C	S								X								
WAP-08a		1720	G	S							X									
WAP-08b		1730	G	S							X									
WAP-08		1720	C	S								X								
TB_20240312																				ON HOLD

680-248051 Chain of Custody

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

Sample Disposal (A fee ... samples ... longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
1	[signature]	3/12 /2000	Terracon	[signature]	3-14-24 1022	[signature]
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 4.5/4.5

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-248051-1

Login Number: 248051

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	

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/28/2024 2:14:22 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-248378-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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3/28/2024 2:14:22 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

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

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

Sample Summary

Client: Terracon Consultants, Inc.
Job ID: 680-248378-1
Project/Site: Tarheel Army Missile Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-248378-1	WAP-09a	Solid	03/20/24 13:45	03/21/24 10:29
680-248378-2	WAP-09b	Solid	03/20/24 13:50	03/21/24 10:29
680-248378-3	WAP-09	Solid	03/20/24 13:45	03/21/24 10:29

Job ID: 680-248378-1 Eurofins Savannah

Job Narrative
680-248378-1

Receipt
The samples were received on 3/21/2024 10:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

GC/MS VOA
Method 8260D - TCLP: The laboratory control sample duplicate (LCSD) for analytical batch 680-829633 recovered outside control limits for the following analyte: 2-Butanone (MEK). These results have been reported and qualified.

Method 8260D - TCLP: The Matrix Spike Duplicate (MSD) was injected with twice the amount of internal standard than the ICIS of the ICAL. The internal area count is in exceedance. The data was not compromised; therefore, the data has been reported. (680-248378-A-2-A MSD)

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

GC/MS Semi VOA
Method 8270E - TCLP: The laboratory control sample (LCS) for preparation batch 680-829813 and analytical batch 680-829956 recovered outside control limits for the following analyte: Pyridine. Pyridine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E - TCLP: The RPD (precision) of the matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 680-829293 and 680-829813 and analytical batch 680-829956 exceeded control limits for the following analyte: Pyridine. Note that this analyte is a known poor performer when analyzed using this method.

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

Client Sample ID: WAP-09a

Lab Sample ID: 680-248378-1

Date Collected: 03/20/24 13:45
Date Received: 03/21/24 10:29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/26/24 20:25	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/26/24 20:25	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/26/24 20:25	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			03/26/24 20:25	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/26/24 20:25	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/26/24 20:25	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/26/24 20:25	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/26/24 20:25	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/26/24 20:25	20
Tetrachloroethene	**0.0287**		0.0200	0.0150	mg/L			03/26/24 20:25	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/26/24 20:25	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/26/24 20:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*03/26/24 20:25*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/26/24 20:25*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/26/24 20:25*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*03/26/24 20:25*	*20*

Client Sample ID: WAP-09b

Lab Sample ID: 680-248378-2

Date Collected: 03/20/24 13:50
Date Received: 03/21/24 10:29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/26/24 20:47	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/26/24 20:47	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/26/24 20:47	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			03/26/24 20:47	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/26/24 20:47	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/26/24 20:47	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/26/24 20:47	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/26/24 20:47	20
Hexachlorobutadiene	<0.0500	F1	0.100	0.0500	mg/L			03/26/24 20:47	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/26/24 20:47	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/26/24 20:47	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/26/24 20:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/26/24 20:47*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/26/24 20:47*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/26/24 20:47*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*03/26/24 20:47*	*20*

Client Sample ID: WAP-09

Lab Sample ID: 680-248378-3

Date Collected: 03/20/24 13:45
Date Received: 03/21/24 10:29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/27/24 06:55	03/27/24 23:29	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

Client Sample ID: WAP-09
Date Collected: 03/20/24 13:45
Date Received: 03/21/24 10:29

Lab Sample ID: 680-248378-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	<0.0370	F2 *-	0.250	0.0370	mg/L		03/27/24 06:55	03/27/24 23:29	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/27/24 06:55	03/27/24 23:29	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/27/24 06:55	03/27/24 23:29	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/27/24 06:55	03/27/24 23:29	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/27/24 06:55	03/27/24 23:29	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/27/24 06:55	03/27/24 23:29	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/27/24 06:55	03/27/24 23:29	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/27/24 06:55	03/27/24 23:29	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/27/24 06:55	03/27/24 23:29	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/27/24 06:55	03/27/24 23:29	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/27/24 06:55	03/27/24 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*30 - 130*	*03/27/24 06:55*	*03/27/24 23:29*	*1*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/27/24 06:55*	*03/27/24 23:29*	*1*
2-Fluorophenol (Surr)	*33*		*10 - 130*	*03/27/24 06:55*	*03/27/24 23:29*	*1*
Terphenyl-d14 (Surr)	*68*		*35 - 131*	*03/27/24 06:55*	*03/27/24 23:29*	*1*
Phenol-d5 (Surr)	*22*		*10 - 130*	*03/27/24 06:55*	*03/27/24 23:29*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/27/24 06:55*	*03/27/24 23:29*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

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

Lab Sample ID: MB 680-829633/8
Matrix: Solid
Analysis Batch: 829633

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/26/24 18:10	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/26/24 18:10	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/26/24 18:10	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/26/24 18:10	1
Benzene	<0.000430		0.00100	0.000430	mg/L			03/26/24 18:10	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/26/24 18:10	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/26/24 18:10	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/26/24 18:10	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/26/24 18:10	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/26/24 18:10	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/26/24 18:10	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/26/24 18:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/26/24 18:10*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/26/24 18:10*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/26/24 18:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*03/26/24 18:10*	*1*

Lab Sample ID: LCS 680-829633/4
Matrix: Solid
Analysis Batch: 829633

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	0.0500	0.04825		mg/L		96	70 - 130
1,2-Dichloroethane	0.0500	0.05238		mg/L		105	70 - 130
1,4-Dichlorobenzene	0.0500	0.04875		mg/L		98	70 - 130
2-Butanone (MEK)	0.250	0.2515		mg/L		101	69 - 114
Benzene	0.0500	0.04953		mg/L		99	70 - 130
Carbon tetrachloride	0.0500	0.04966		mg/L		99	70 - 130
Chlorobenzene	0.0500	0.05005		mg/L		100	70 - 130
Chloroform	0.0500	0.05319		mg/L		106	70 - 130
Hexachlorobutadiene	0.0500	0.05593		mg/L		112	70 - 130
Tetrachloroethene	0.0500	0.05156		mg/L		103	70 - 130
Trichloroethene	0.0500	0.05275		mg/L		105	70 - 130
Vinyl chloride	0.0500	0.04463		mg/L		89	66 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

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

Lab Sample ID: LCSD 680-829633/5
Matrix: Solid
Analysis Batch: 829633

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-Dichloroethene			0.0500	0.05393		mg/L		108	70 - 130	11	20
1,2-Dichloroethane			0.0500	0.05341		mg/L		107	70 - 130	2	50
1,4-Dichlorobenzene			0.0500	0.04959		mg/L		99	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2985	*+	mg/L		119	69 - 114	17	30
Benzene			0.0500	0.04941		mg/L		99	70 - 130	0	30
Carbon tetrachloride			0.0500	0.05046		mg/L		101	70 - 130	2	30
Chlorobenzene			0.0500	0.05182		mg/L		104	70 - 130	3	30
Chloroform			0.0500	0.05710		mg/L		114	70 - 130	7	30
Hexachlorobutadiene			0.0500	0.05406		mg/L		108	70 - 130	3	20
Tetrachloroethene			0.0500	0.05413		mg/L		108	70 - 130	5	30
Trichloroethene			0.0500	0.05177		mg/L		104	70 - 130	2	30
Vinyl chloride			0.0500	0.04314		mg/L		86	66 - 129	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*

Lab Sample ID: LB 680-829292/1-A
Matrix: Solid
Analysis Batch: 829633

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/26/24 19:40	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/26/24 19:40	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/26/24 19:40	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/26/24 19:40	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/26/24 19:40	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/26/24 19:40	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/26/24 19:40	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/26/24 19:40	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/26/24 19:40	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/26/24 19:40	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/26/24 19:40	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/26/24 19:40	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/26/24 19:40*	*20*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/26/24 19:40*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/26/24 19:40*	*20*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*03/26/24 19:40*	*20*

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

Lab Sample ID: 680-248378-2 MS
Matrix: Solid
Analysis Batch: 829633

Client Sample ID: WAP-09b
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.00720		1.00	1.030		mg/L		103	70 - 130
1,2-Dichloroethane	<0.0100		1.00	1.029		mg/L		103	70 - 130
1,4-Dichlorobenzene	<0.00920		1.00	1.000		mg/L		100	70 - 130
2-Butanone (MEK)	<0.0680	*+	5.00	4.813		mg/L		96	69 - 114
Benzene	<0.00860		1.00	1.008		mg/L		101	70 - 130
Carbon tetrachloride	<0.00660		1.00	1.021		mg/L		102	70 - 130
Chlorobenzene	<0.00520		1.00	1.056		mg/L		106	70 - 130
Chloroform	<0.0100		1.00	1.058		mg/L		106	70 - 130
Hexachlorobutadiene	<0.0500	F1	1.00	0.7200		mg/L		72	70 - 130
Tetrachloroethene	<0.0150		1.00	1.021		mg/L		102	70 - 130
Trichloroethene	<0.00960		1.00	1.067		mg/L		107	70 - 130
Vinyl chloride	<0.0100		1.00	0.8188		mg/L		82	66 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*

Lab Sample ID: 680-248378-2 MSD
Matrix: Solid
Analysis Batch: 829633

Client Sample ID: WAP-09b
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	<0.00720		1.00	0.9489	*3	mg/L		95	70 - 130	8	20
1,2-Dichloroethane	<0.0100		1.00	0.9840	*3	mg/L		98	70 - 130	4	50
1,4-Dichlorobenzene	<0.00920		1.00	0.9435		mg/L		94	70 - 130	6	20
2-Butanone (MEK)	<0.0680	*+	5.00	4.767	*3	mg/L		95	69 - 114	1	20
Benzene	<0.00860		1.00	0.9600	*3	mg/L		96	70 - 130	5	20
Carbon tetrachloride	<0.00660		1.00	0.9577	*3	mg/L		96	70 - 130	6	20
Chlorobenzene	<0.00520		1.00	0.9986	*3	mg/L		100	70 - 130	6	20
Chloroform	<0.0100		1.00	0.9929	*3	mg/L		99	70 - 130	6	20
Hexachlorobutadiene	<0.0500	F1	1.00	0.6414	F1	mg/L		64	70 - 130	12	20
Tetrachloroethene	<0.0150		1.00	0.9493	*3	mg/L		95	70 - 130	7	20
Trichloroethene	<0.00960		1.00	0.9967	*3	mg/L		100	70 - 130	7	20
Vinyl chloride	<0.0100		1.00	0.7797	*3	mg/L		78	66 - 129	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
Dibromofluoromethane (Surr)	*102*	*3	*70 - 130*
Toluene-d8 (Surr)	*101*	*3	*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*	*3	*60 - 124*

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

Lab Sample ID: MB 680-829813/1-A
Matrix: Solid
Analysis Batch: 829956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 829813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/27/24 06:55	03/27/24 19:13	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/27/24 06:55	03/27/24 19:13	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/27/24 06:55	03/27/24 19:13	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/27/24 06:55	03/27/24 19:13	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/27/24 06:55	03/27/24 19:13	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/27/24 06:55	03/27/24 19:13	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/27/24 06:55	03/27/24 19:13	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/27/24 06:55	03/27/24 19:13	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/27/24 06:55	03/27/24 19:13	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/27/24 06:55	03/27/24 19:13	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/27/24 06:55	03/27/24 19:13	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/27/24 06:55	03/27/24 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*32*		*30 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
2-Fluorobiphenyl (Surr)	*36*		*25 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
2-Fluorophenol (Surr)	*17*		*10 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
Terphenyl-d14 (Surr)	*46*		*35 - 131*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
Phenol-d5 (Surr)	*11*		*10 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
Nitrobenzene-d5 (Surr)	*34*		*30 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*

Lab Sample ID: LCS 680-829813/2-A
Matrix: Solid
Analysis Batch: 829956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 829813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1080		mg/L		54	13 - 130
Pyridine	0.400	0.03418	J *-	mg/L		9	10 - 130
Hexachlorobenzene	0.200	0.1248		mg/L		62	30 - 130
2,4-Dinitrotoluene	0.200	0.1633		mg/L		82	37 - 130
Hexachloroethane	0.200	0.1081		mg/L		54	12 - 130
Hexachlorobutadiene	0.200	0.1141		mg/L		57	12 - 130
Pentachlorophenol	0.400	0.2072		mg/L		52	24 - 130
2,4,6-Trichlorophenol	0.200	0.1330		mg/L		66	28 - 130
2,4,5-Trichlorophenol	0.200	0.1218		mg/L		61	26 - 130
Nitrobenzene	0.200	0.1214		mg/L		61	32 - 130
2-Methylphenol	0.200	0.1026		mg/L		51	21 - 130
3 & 4 Methylphenol	0.200	0.09726		mg/L		49	19 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*61*		*30 - 130*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Terphenyl-d14 (Surr)	*64*		*35 - 131*
Phenol-d5 (Surr)	*21*		*10 - 130*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*

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

Lab Sample ID: LB1 680-829293/1-C
Matrix: Solid
Analysis Batch: 829956

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 829813

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/27/24 06:55	03/27/24 19:38	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/27/24 06:55	03/27/24 19:38	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/27/24 06:55	03/27/24 19:38	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/27/24 06:55	03/27/24 19:38	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/27/24 06:55	03/27/24 19:38	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/27/24 06:55	03/27/24 19:38	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/27/24 06:55	03/27/24 19:38	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/27/24 06:55	03/27/24 19:38	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/27/24 06:55	03/27/24 19:38	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/27/24 06:55	03/27/24 19:38	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/27/24 06:55	03/27/24 19:38	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/27/24 06:55	03/27/24 19:38	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*30 - 130*	*03/27/24 06:55*	*03/27/24 19:38*	*1*
2-Fluorobiphenyl (Surr)	*55*		*25 - 130*	*03/27/24 06:55*	*03/27/24 19:38*	*1*
2-Fluorophenol (Surr)	*29*		*10 - 130*	*03/27/24 06:55*	*03/27/24 19:38*	*1*
Terphenyl-d14 (Surr)	*60*		*35 - 131*	*03/27/24 06:55*	*03/27/24 19:38*	*1*
Phenol-d5 (Surr)	*19*		*10 - 130*	*03/27/24 06:55*	*03/27/24 19:38*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/27/24 06:55*	*03/27/24 19:38*	*1*

Lab Sample ID: 680-248378-3 MS
Matrix: Solid
Analysis Batch: 829956

Client Sample ID: WAP-09
Prep Type: TCLP
Prep Batch: 829813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.5661		mg/L		57	13 - 130
Pyridine	<0.0370	F2 *-	2.00	0.5080		mg/L		25	10 - 130
Hexachlorobenzene	<0.00800		1.00	0.6910		mg/L		69	30 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.8742		mg/L		87	37 - 130
Hexachloroethane	<0.0180		1.00	0.5572		mg/L		56	12 - 130
Hexachlorobutadiene	<0.0200		1.00	0.5982		mg/L		60	12 - 130
Pentachlorophenol	<0.0500		2.00	1.165		mg/L		58	24 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.7000		mg/L		70	28 - 130
2,4,5-Trichlorophenol	<0.0160		1.00	0.6725		mg/L		67	26 - 130
Nitrobenzene	<0.0180		1.00	0.6381		mg/L		64	32 - 130
2-Methylphenol	<0.00900		1.00	0.5331		mg/L		53	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.5223		mg/L		52	19 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*65*		*30 - 130*
2-Fluorobiphenyl (Surr)	*61*		*25 - 130*
2-Fluorophenol (Surr)	*34*		*10 - 130*
Terphenyl-d14 (Surr)	*70*		*35 - 131*
Phenol-d5 (Surr)	*21*		*10 - 130*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*

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

Lab Sample ID: 680-248378-3 MSD
Matrix: Solid
Analysis Batch: 829956

Client Sample ID: WAP-09
Prep Type: TCLP
Prep Batch: 829813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.4562		mg/L		46	13 - 130	22	50
Pyridine	<0.0370	F2 *-	2.00	0.2445	J F2	mg/L		12	10 - 130	70	50
Hexachlorobenzene	<0.00800		1.00	0.5766		mg/L		58	30 - 130	18	50
2,4-Dinitrotoluene	<0.0120		1.00	0.7298		mg/L		73	37 - 130	18	50
Hexachloroethane	<0.0180		1.00	0.4532		mg/L		45	12 - 130	21	50
Hexachlorobutadiene	<0.0200		1.00	0.5215		mg/L		52	12 - 130	14	50
Pentachlorophenol	<0.0500		2.00	1.021		mg/L		51	24 - 130	13	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.5993		mg/L		60	28 - 130	16	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.5494		mg/L		55	26 - 130	20	50
Nitrobenzene	<0.0180		1.00	0.5467		mg/L		55	32 - 130	15	50
2-Methylphenol	<0.00900		1.00	0.4454		mg/L		45	21 - 130	18	50
3 & 4 Methylphenol	<0.00700		1.00	0.4184		mg/L		42	19 - 130	22	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*55*		*30 - 130*
2-Fluorobiphenyl (Surr)	*50*		*25 - 130*
2-Fluorophenol (Surr)	*27*		*10 - 130*
Terphenyl-d14 (Surr)	*60*		*35 - 131*
Phenol-d5 (Surr)	*18*		*10 - 130*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

GC/MS VOA

Leach Batch: 829292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248378-1	WAP-09a	TCLP	Solid	1311	
680-248378-2	WAP-09b	TCLP	Solid	1311	
LB 680-829292/1-A	Method Blank	TCLP	Solid	1311	
680-248378-2 MS	WAP-09b	TCLP	Solid	1311	
680-248378-2 MSD	WAP-09b	TCLP	Solid	1311	

Analysis Batch: 829633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248378-1	WAP-09a	TCLP	Solid	8260D	829292
680-248378-2	WAP-09b	TCLP	Solid	8260D	829292
LB 680-829292/1-A	Method Blank	TCLP	Solid	8260D	829292
MB 680-829633/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-829633/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-829633/5	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-248378-2 MS	WAP-09b	TCLP	Solid	8260D	829292
680-248378-2 MSD	WAP-09b	TCLP	Solid	8260D	829292

GC/MS Semi VOA

Leach Batch: 829293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248378-3	WAP-09	TCLP	Solid	1311	
LB1 680-829293/1-C	Method Blank	TCLP	Solid	1311	
680-248378-3 MS	WAP-09	TCLP	Solid	1311	
680-248378-3 MSD	WAP-09	TCLP	Solid	1311	

Prep Batch: 829813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248378-3	WAP-09	TCLP	Solid	3510C	829293
LB1 680-829293/1-C	Method Blank	TCLP	Solid	3510C	829293
MB 680-829813/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-829813/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-248378-3 MS	WAP-09	TCLP	Solid	3510C	829293
680-248378-3 MSD	WAP-09	TCLP	Solid	3510C	829293

Analysis Batch: 829956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248378-3	WAP-09	TCLP	Solid	8270E	829813
LB1 680-829293/1-C	Method Blank	TCLP	Solid	8270E	829813
MB 680-829813/1-A	Method Blank	Total/NA	Solid	8270E	829813
LCS 680-829813/2-A	Lab Control Sample	Total/NA	Solid	8270E	829813
680-248378-3 MS	WAP-09	TCLP	Solid	8270E	829813
680-248378-3 MSD	WAP-09	TCLP	Solid	8270E	829813

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

Client Sample ID: WAP-09a

Lab Sample ID: 680-248378-1

Date Collected: 03/20/24 13:45

Matrix: Solid

Date Received: 03/21/24 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	829292	03/23/24 18:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	829633	03/26/24 20:25	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-09b

Lab Sample ID: 680-248378-2

Date Collected: 03/20/24 13:50

Matrix: Solid

Date Received: 03/21/24 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.02 g	500 mL	829292	03/23/24 18:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	829633	03/26/24 20:47	P1C	EET SAV

Instrument ID: CMSAJ

Client Sample ID: WAP-09

Lab Sample ID: 680-248378-3

Date Collected: 03/20/24 13:45

Matrix: Solid

Date Received: 03/21/24 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.06 g	2000 mL	829293	03/23/24 18:30	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	829813	03/27/24 06:55	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	829956	03/27/24 23:29	OK	EET SAV

Instrument ID: CMST

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: 680-248378-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248378-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154780-55565.1
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:	Analysis Requested		Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water	TCLP VOCs 8260	TCLP SVOCs 8270	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A				
WAP-09a	3/20/24	1345	G	S						X			
WAP-09b	3/20/24	1350	G	S						X			
WAP-09	3/20/24	1345	C	S							X		
TB_20240320	3/20/24	—	G	W									ON HOLD

680-248378 Chain of Custody

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

Sample Disposal (A fee may be assesse
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
1	[signature]	3/20/24 1900		[signature]	3.21.24 1029	TN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 29/29

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-248378-1

Login Number: 248378

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	

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/8/2024 8:03:03 AM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247306-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
3/8/2024 8:03:03 AM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

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.
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.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247306-1	WOTA-SS-01 (4)	Solid	02/28/24 14:10	02/29/24 10:11
680-247306-2	WOTA-SS-01 (8)	Solid	02/28/24 14:20	02/29/24 10:11
680-247306-3	WOTA-SS-02 (4)	Solid	02/28/24 14:30	02/29/24 10:11
680-247306-4	WOTA-SS-02 (8)	Solid	02/28/24 14:40	02/29/24 10:11
680-247306-5	WOTA-SS-03 (4)	Solid	02/28/24 14:50	02/29/24 10:11
680-247306-6	WOTA-SS-03 (8)	Solid	02/28/24 15:00	02/29/24 10:11
680-247306-10	DUP-WOTA	Solid	02/28/24 00:00	02/29/24 10:11
680-247306-11	TB-01_20240228	Water	02/28/24 00:00	02/29/24 10:11

Job ID: 680-247306-1 Eurofins Savannah

Job Narrative
680-247306-1

Comments
Per client request all analysis was canceled for the following samples: WOTA-SS-04a (4), WOTA-SS-04b (4), and WOTA-SS-04 (8).

Receipt
The samples were received on 2/29/2024 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-825632 recovered outside control limits for the following analytes: Dichlorodifluoromethane, Trichlorofluoromethane and Vinyl chloride. 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 and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-825632 recovered outside control limits for the following analytes: Chloromethane and 1,2-Dibromo-3-Chloropropane. These results have been reported and qualified.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WOTA-SS-02 (4) (680-247306-3). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following sample was outside control limits: WOTA-SS-03 (8) (680-247306-6). Evidence of matrix interference is present; therefore, re-analysis was not performed.

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

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-01 (4)
Date Collected: 02/28/24 14:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-1
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0298	J	0.0423	0.00932	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Benzene	<0.00203		0.00423	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Bromobenzene	<0.00144		0.00423	0.00144	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Chlorobromomethane	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Dichlorobromomethane	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Bromoform	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Bromomethane	<0.00203		0.00423	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
2-Butanone (MEK)	<0.00779		0.0212	0.00779	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
n-Butylbenzene	<0.00161		0.00423	0.00161	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
sec-Butylbenzene	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
tert-Butylbenzene	<0.00212		0.00423	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Carbon disulfide	<0.00178		0.00423	0.00178	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Carbon tetrachloride	<0.00178		0.00423	0.00178	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Chlorobenzene	<0.00119		0.00423	0.00119	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Chloroethane	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Chloroform	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Chloromethane	<0.00203		0.00423	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
2-Chlorotoluene	<0.00195		0.00423	0.00195	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
4-Chlorotoluene	<0.00178		0.00423	0.00178	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Chlorodibromomethane	<0.00178		0.00423	0.00178	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2-Dibromo-3-Chloropropane	<0.00136		0.00847	0.00136	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Ethylene Dibromide	<0.00144		0.00423	0.00144	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Dibromomethane	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2-Dichlorobenzene	<0.00144		0.00423	0.00144	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,3-Dichlorobenzene	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,4-Dichlorobenzene	<0.00152		0.00423	0.00152	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
trans-1,4-Dichloro-2-butene	<0.00203		0.00847	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Dichlorodifluoromethane	<0.00271		0.00423	0.00271	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1-Dichloroethane	<0.00246		0.00423	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2-Dichloroethane	<0.00195		0.00423	0.00195	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
cis-1,2-Dichloroethene	<0.00246		0.00423	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
trans-1,2-Dichloroethene	<0.00195		0.00423	0.00195	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1-Dichloroethene	<0.00305		0.00423	0.00305	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2-Dichloropropane	<0.00220		0.00423	0.00220	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,3-Dichloropropane	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
2,2-Dichloropropane	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1-Dichloropropene	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
cis-1,3-Dichloropropene	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
trans-1,3-Dichloropropene	<0.00220		0.00423	0.00220	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Ethylbenzene	<0.00178		0.00423	0.00178	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Hexachlorobutadiene	<0.00347		0.00423	0.00347	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
2-Hexanone	<0.0161		0.0212	0.0161	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Iodomethane	<0.00144		0.00423	0.00144	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Isopropylbenzene	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
4-Isopropyltoluene	<0.00220		0.00423	0.00220	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Methylene Chloride	<0.00678		0.00847	0.00678	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0152		0.0212	0.0152	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Methyl tert-butyl ether	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Naphthalene	<0.00263		0.00423	0.00263	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-01 (4)
Date Collected: 02/28/24 14:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-1
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Styrene	<0.00161		0.00423	0.00161	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1,1,2-Tetrachloroethane	<0.00110		0.00423	0.00110	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1,2,2-Tetrachloroethane	<0.00178		0.00423	0.00178	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Tetrachloroethene	<0.00220		0.00423	0.00220	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Toluene	<0.00220		0.00423	0.00220	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2,3-Trichlorobenzene	<0.00169		0.00423	0.00169	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2,4-Trichlorobenzene	<0.00212		0.00423	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1,1-Trichloroethane	<0.00220		0.00423	0.00220	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1,2-Trichloroethane	<0.00127		0.00423	0.00127	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Trichloroethene	**0.00990**		0.00423	0.00152	mg/Kg	☼	03/01/24 08:57	03/07/24 12:02	1
Trichlorofluoromethane	<0.00263		0.00423	0.00263	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2,3-Trichloropropane	<0.00152		0.00423	0.00152	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00246		0.00423	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,2,4-Trimethylbenzene	<0.00212		0.00423	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
1,3,5-Trimethylbenzene	<0.00203		0.00423	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Vinyl acetate	<0.00466		0.00847	0.00466	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Vinyl chloride	<0.00237		0.00423	0.00237	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
o-Xylene	<0.00195		0.00423	0.00195	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
m-Xylene & p-Xylene	<0.00186		0.00423	0.00186	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Xylenes, Total	<0.00305		0.00847	0.00305	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Isopropyl ether	<0.00127		0.00847	0.00127	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Hexane	<0.00144		0.00423	0.00144	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
n-Heptane	<0.00364		0.00423	0.00364	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1
Ethyl acetate	<0.00847		0.00847	0.00847	mg/Kg	☼	03/01/24 08:57	03/06/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:17*	*1*
Toluene-d8 (Surr)	*106*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:02*	*1*
Dibromofluoromethane (Surr)	*114*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:17*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0486		0.391	0.0486	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Acenaphthylene	<0.0427		0.391	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Acetophenone	<0.0332		0.391	0.0332	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Anthracene	<0.0297		0.391	0.0297	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Atrazine	<0.0273		0.391	0.0273	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Benzaldehyde	<0.0688		0.391	0.0688	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Benzo[a]anthracene	<0.0320		0.391	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Benzo[a]pyrene	<0.0617		0.391	0.0617	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Benzo[b]fluoranthene	<0.0451		0.391	0.0451	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Benzo[g,h,i]perylene	<0.0261		0.391	0.0261	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Benzo[k]fluoranthene	<0.0771		0.391	0.0771	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
1,1'-Biphenyl	<2.02		2.02	2.02	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-01 (4)
Date Collected: 02/28/24 14:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-1
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.0463		0.391	0.0463	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Bis(2-chloroethyl)ether	<0.0534		0.391	0.0534	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
bis (2-chloroisopropyl) ether	<0.0356		0.391	0.0356	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Bis(2-ethylhexyl) phthalate	<0.0344		0.391	0.0344	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4-Bromophenyl phenyl ether	<0.0427		0.391	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Butyl benzyl phthalate	<0.0308		0.391	0.0308	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Caprolactam	<0.0783		0.391	0.0783	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Carbazole	<0.0356		0.391	0.0356	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4-Chloroaniline	<0.0617		0.783	0.0617	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4-Chloro-3-methylphenol	<0.0415		0.391	0.0415	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2-Chloronaphthalene	<0.0415		0.391	0.0415	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2-Chlorophenol	<0.0474		0.391	0.0474	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4-Chlorophenyl phenyl ether	<0.0522		0.391	0.0522	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Chrysene	<0.0249		0.391	0.0249	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Dibenz(a,h)anthracene	<0.0463		0.391	0.0463	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Dibenzofuran	<0.0391		0.391	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
3,3'-Dichlorobenzidine	<0.0332		0.783	0.0332	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,4-Dichlorophenol	<0.0415		0.391	0.0415	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Diethyl phthalate	<0.0439		0.391	0.0439	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,4-Dimethylphenol	<0.0522		0.391	0.0522	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Dimethyl phthalate	<0.0403		0.391	0.0403	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Di-n-butyl phthalate	<0.0356		0.391	0.0356	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4,6-Dinitro-2-methylphenol	<0.202		2.02	0.202	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,4-Dinitrophenol	<0.985		2.02	0.985	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,4-Dinitrotoluene	<0.0581		0.391	0.0581	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,6-Dinitrotoluene	<0.0498		0.391	0.0498	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Di-n-octyl phthalate	<0.0344		0.391	0.0344	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Fluoranthene	<0.0380		0.391	0.0380	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Fluorene	<0.0427		0.391	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Hexachlorobenzene	<0.0463		0.391	0.0463	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Hexachlorobutadiene	<0.0427		0.391	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Hexachlorocyclopentadiene	<0.0486		0.391	0.0486	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Hexachloroethane	<0.0332		0.391	0.0332	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Indeno[1,2,3-cd]pyrene	<0.0332		0.391	0.0332	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Isophorone	<0.0391		0.391	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2-Methylnaphthalene	<0.0451		0.391	0.0451	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2-Methylphenol	<0.0320		0.391	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
3 & 4 Methylphenol	<0.0510		0.391	0.0510	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Naphthalene	<0.0356		0.391	0.0356	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2-Nitroaniline	<0.0534		2.02	0.0534	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
3-Nitroaniline	<0.0546		2.02	0.0546	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4-Nitroaniline	<0.0581		2.02	0.0581	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Nitrobenzene	<0.0308		0.391	0.0308	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2-Nitrophenol	<0.0486		0.391	0.0486	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
4-Nitrophenol	<0.391		2.02	0.391	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
N-Nitrosodi-n-propylamine	<0.0380		0.391	0.0380	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
N-Nitrosodiphenylamine	<0.0391		0.391	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Pentachlorophenol	<0.391		2.02	0.391	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Phenanthrene	<0.0320		0.391	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1

Client Sample ID: WOTA-SS-01 (4)

Date Collected: 02/28/24 14:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-1

Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.0403		0.391	0.0403	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Pyrene	<0.0320		0.391	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
Pyridine	<0.391		0.783	0.391	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,4,5-Trichlorophenol	<0.0415		0.391	0.0415	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1
2,4,6-Trichlorophenol	<0.0344		0.391	0.0344	mg/Kg	☼	03/05/24 07:30	03/06/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*25 - 130*	*03/05/24 07:30*	*03/06/24 16:02*	*1*
2-Fluorophenol (Surr)	*77*		*18 - 130*	*03/05/24 07:30*	*03/06/24 16:02*	*1*
Nitrobenzene-d5 (Surr)	*75*		*19 - 130*	*03/05/24 07:30*	*03/06/24 16:02*	*1*
Phenol-d5 (Surr)	*75*		*21 - 130*	*03/05/24 07:30*	*03/06/24 16:02*	*1*
Terphenyl-d14 (Surr)	*74*		*31 - 133*	*03/05/24 07:30*	*03/06/24 16:02*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*	*03/05/24 07:30*	*03/06/24 16:02*	*1*

Client Sample ID: WOTA-SS-01 (8)

Date Collected: 02/28/24 14:20
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-2

Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0237**	**J**	0.0441	0.00971	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Benzene	<0.00212		0.00441	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Bromobenzene	<0.00150		0.00441	0.00150	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Chlorobromomethane	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Dichlorobromomethane	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Bromoform	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Bromomethane	<0.00212		0.00441	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
2-Butanone (MEK)	<0.00812		0.0221	0.00812	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
n-Butylbenzene	<0.00168		0.00441	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
sec-Butylbenzene	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
tert-Butylbenzene	<0.00221		0.00441	0.00221	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Carbon disulfide	<0.00185		0.00441	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Carbon tetrachloride	<0.00185		0.00441	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Chlorobenzene	<0.00124		0.00441	0.00124	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Chloroethane	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Chloroform	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Chloromethane	<0.00212		0.00441	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
2-Chlorotoluene	<0.00203		0.00441	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
4-Chlorotoluene	<0.00185		0.00441	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Chlorodibromomethane	<0.00185		0.00441	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2-Dibromo-3-Chloropropane	<0.00141		0.00883	0.00141	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Ethylene Dibromide	<0.00150		0.00441	0.00150	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Dibromomethane	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2-Dichlorobenzene	**0.00420**	**J**	0.00441	0.00150	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,3-Dichlorobenzene	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,4-Dichlorobenzene	<0.00159		0.00441	0.00159	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
trans-1,4-Dichloro-2-butene	<0.00212		0.00883	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Dichlorodifluoromethane	<0.00283		0.00441	0.00283	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1-Dichloroethane	<0.00256		0.00441	0.00256	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2-Dichloroethane	<0.00203		0.00441	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1

Client Sample ID: WOTA-SS-01 (8)
Date Collected: 02/28/24 14:20
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-2
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.00898**		0.00441	0.00256	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
trans-1,2-Dichloroethene	<0.00203		0.00441	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1-Dichloroethene	<0.00318		0.00441	0.00318	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2-Dichloropropane	<0.00230		0.00441	0.00230	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,3-Dichloropropane	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
2,2-Dichloropropane	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1-Dichloropropene	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
cis-1,3-Dichloropropene	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
trans-1,3-Dichloropropene	<0.00230		0.00441	0.00230	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Ethylbenzene	<0.00185		0.00441	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Hexachlorobutadiene	<0.00362		0.00441	0.00362	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
2-Hexanone	<0.0168		0.0221	0.0168	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Iodomethane	<0.00150		0.00441	0.00150	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Isopropylbenzene	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
4-Isopropyltoluene	<0.00230		0.00441	0.00230	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Methylene Chloride	<0.00706		0.00883	0.00706	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0159		0.0221	0.0159	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Methyl tert-butyl ether	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Naphthalene	**0.00287**	**J**	0.00441	0.00274	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
N-Propylbenzene	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Styrene	<0.00168		0.00441	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1,1,2-Tetrachloroethane	<0.00115		0.00441	0.00115	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1,2,2-Tetrachloroethane	<0.00185		0.00441	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Tetrachloroethene	<0.00230		0.00441	0.00230	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Toluene	<0.00230		0.00441	0.00230	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2,3-Trichlorobenzene	<0.00177		0.00441	0.00177	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2,4-Trichlorobenzene	<0.00221		0.00441	0.00221	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1,1-Trichloroethane	<0.00230		0.00441	0.00230	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1,2-Trichloroethane	<0.00132		0.00441	0.00132	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Trichlorofluoromethane	<0.00274		0.00441	0.00274	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2,3-Trichloropropane	<0.00159		0.00441	0.00159	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00256		0.00441	0.00256	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,2,4-Trimethylbenzene	<0.00221		0.00441	0.00221	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
1,3,5-Trimethylbenzene	<0.00212		0.00441	0.00212	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Vinyl acetate	<0.00486		0.00883	0.00486	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Vinyl chloride	<0.00247		0.00441	0.00247	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
o-Xylene	<0.00203		0.00441	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
m-Xylene & p-Xylene	<0.00194		0.00441	0.00194	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Xylenes, Total	<0.00318		0.00883	0.00318	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Isopropyl ether	<0.00132		0.00883	0.00132	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Hexane	<0.00150		0.00441	0.00150	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
n-Heptane	<0.00380		0.00441	0.00380	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1
Ethyl acetate	<0.00883		0.00883	0.00883	mg/Kg	☼	03/01/24 08:57	03/06/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:39*	*1*
Dibromofluoromethane (Surr)	*113*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*	*03/01/24 08:57*	*03/06/24 17:39*	*1*

Client Sample ID: WOTA-SS-01 (8)

Date Collected: 02/28/24 14:20
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-2

Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	11.9		1.10	0.395	mg/Kg	☼	03/01/24 08:57	03/07/24 19:40	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*128*		*65 - 130*	*03/01/24 08:57*	*03/07/24 19:40*	*250*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 130*	*03/01/24 08:57*	*03/07/24 19:40*	*250*
Dibromofluoromethane (Surr)	*118*		*65 - 130*	*03/01/24 08:57*	*03/07/24 19:40*	*250*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*03/01/24 08:57*	*03/07/24 19:40*	*250*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0507		0.408	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Acenaphthylene	<0.0445		0.408	0.0445	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Acetophenone	<0.0346		0.408	0.0346	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Anthracene	<0.0309		0.408	0.0309	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Atrazine	<0.0284		0.408	0.0284	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Benzaldehyde	<0.0717		0.408	0.0717	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Benzo[a]anthracene	<0.0334		0.408	0.0334	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Benzo[a]pyrene	<0.0643		0.408	0.0643	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Benzo[b]fluoranthene	<0.0470		0.408	0.0470	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Benzo[g,h,i]perylene	<0.0272		0.408	0.0272	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Benzo[k]fluoranthene	<0.0804		0.408	0.0804	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
1,1'-Biphenyl	<2.10		2.10	2.10	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Bis(2-chloroethoxy)methane	<0.0482		0.408	0.0482	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Bis(2-chloroethyl)ether	<0.0556		0.408	0.0556	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
bis (2-chloroisopropyl) ether	<0.0371		0.408	0.0371	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Bis(2-ethylhexyl) phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4-Bromophenyl phenyl ether	<0.0445		0.408	0.0445	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Butyl benzyl phthalate	<0.0321		0.408	0.0321	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Caprolactam	<0.0816		0.408	0.0816	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Carbazole	<0.0371		0.408	0.0371	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4-Chloroaniline	<0.0643		0.816	0.0643	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4-Chloro-3-methylphenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2-Chloronaphthalene	<0.0433		0.408	0.0433	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2-Chlorophenol	<0.0495		0.408	0.0495	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4-Chlorophenyl phenyl ether	<0.0544		0.408	0.0544	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Chrysene	<0.0260		0.408	0.0260	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Dibenz(a,h)anthracene	<0.0482		0.408	0.0482	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Dibenzofuran	<0.0408		0.408	0.0408	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
3,3'-Dichlorobenzidine	<0.0346		0.816	0.0346	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,4-Dichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Diethyl phthalate	<0.0457		0.408	0.0457	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,4-Dimethylphenol	<0.0544		0.408	0.0544	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Dimethyl phthalate	<0.0420		0.408	0.0420	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Di-n-butyl phthalate	<0.0371		0.408	0.0371	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4,6-Dinitro-2-methylphenol	<0.210		2.10	0.210	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,4-Dinitrophenol	<1.03		2.10	1.03	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,4-Dinitrotoluene	<0.0606		0.408	0.0606	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,6-Dinitrotoluene	<0.0519		0.408	0.0519	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Di-n-octyl phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Fluoranthene	<0.0396		0.408	0.0396	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1

Client Sample ID: WOTA-SS-01 (8)

Date Collected: 02/28/24 14:20
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-2

Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.0445		0.408	0.0445	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Hexachlorobenzene	<0.0482		0.408	0.0482	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Hexachlorobutadiene	<0.0445		0.408	0.0445	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Hexachlorocyclopentadiene	<0.0507		0.408	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Hexachloroethane	<0.0346		0.408	0.0346	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Indeno[1,2,3-cd]pyrene	<0.0346		0.408	0.0346	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Isophorone	<0.0408		0.408	0.0408	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2-Methylnaphthalene	<0.0470		0.408	0.0470	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2-Methylphenol	<0.0334		0.408	0.0334	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
3 & 4 Methylphenol	<0.0532		0.408	0.0532	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Naphthalene	<0.0371		0.408	0.0371	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2-Nitroaniline	<0.0556		2.10	0.0556	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
3-Nitroaniline	<0.0569		2.10	0.0569	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4-Nitroaniline	<0.0606		2.10	0.0606	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Nitrobenzene	<0.0321		0.408	0.0321	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2-Nitrophenol	<0.0507		0.408	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
4-Nitrophenol	<0.408		2.10	0.408	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
N-Nitrosodi-n-propylamine	<0.0396		0.408	0.0396	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
N-Nitrosodiphenylamine	<0.0408		0.408	0.0408	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Pentachlorophenol	<0.408		2.10	0.408	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Phenanthrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Phenol	<0.0420		0.408	0.0420	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Pyrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
Pyridine	<0.408		0.816	0.408	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,4,5-Trichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1
2,4,6-Trichlorophenol	<0.0359		0.408	0.0359	mg/Kg	☼	03/05/24 07:30	03/06/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*25 - 130*	*03/05/24 07:30*	*03/06/24 16:28*	*1*
2-Fluorophenol (Surr)	*73*		*18 - 130*	*03/05/24 07:30*	*03/06/24 16:28*	*1*
Nitrobenzene-d5 (Surr)	*70*		*19 - 130*	*03/05/24 07:30*	*03/06/24 16:28*	*1*
Phenol-d5 (Surr)	*72*		*21 - 130*	*03/05/24 07:30*	*03/06/24 16:28*	*1*
Terphenyl-d14 (Surr)	*78*		*31 - 133*	*03/05/24 07:30*	*03/06/24 16:28*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*	*03/05/24 07:30*	*03/06/24 16:28*	*1*

Client Sample ID: WOTA-SS-02 (4)

Date Collected: 02/28/24 14:30
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-3

Matrix: Solid
Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.959		4.36	0.959	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Benzene	<0.209		0.436	0.209	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Bromobenzene	<0.148		0.436	0.148	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Chlorobromomethane	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Dichlorobromomethane	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Bromoform	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Bromomethane	<0.209		0.436	0.209	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
2-Butanone (MEK)	<0.802		2.18	0.802	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
n-Butylbenzene	<0.166		0.436	0.166	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100

Client Sample ID: WOTA-SS-02 (4)
Date Collected: 02/28/24 14:30
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-3
Matrix: Solid
Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
tert-Butylbenzene	<0.218		0.436	0.218	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Carbon disulfide	<0.183		0.436	0.183	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Carbon tetrachloride	<0.183		0.436	0.183	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Chlorobenzene	<0.122		0.436	0.122	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Chloroethane	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Chloroform	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Chloromethane	<0.209		0.436	0.209	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
2-Chlorotoluene	<0.201		0.436	0.201	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
4-Chlorotoluene	<0.183		0.436	0.183	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Chlorodibromomethane	<0.183		0.436	0.183	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2-Dibromo-3-Chloropropane	<0.140		0.872	0.140	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Ethylene Dibromide	<0.148		0.436	0.148	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Dibromomethane	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2-Dichlorobenzene	<0.148		0.436	0.148	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,3-Dichlorobenzene	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,4-Dichlorobenzene	<0.157		0.436	0.157	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
trans-1,4-Dichloro-2-butene	<0.209		0.872	0.209	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Dichlorodifluoromethane	<0.279		0.436	0.279	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1-Dichloroethane	<0.253		0.436	0.253	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2-Dichloroethane	<0.201		0.436	0.201	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
cis-1,2-Dichloroethene	<0.253		0.436	0.253	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
trans-1,2-Dichloroethene	<0.201		0.436	0.201	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1-Dichloroethene	<0.314		0.436	0.314	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2-Dichloropropane	<0.227		0.436	0.227	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,3-Dichloropropane	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
2,2-Dichloropropane	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1-Dichloropropene	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
cis-1,3-Dichloropropene	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
trans-1,3-Dichloropropene	<0.227		0.436	0.227	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Ethylbenzene	<0.183		0.436	0.183	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Hexachlorobutadiene	<0.358		0.436	0.358	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
2-Hexanone	<1.66		2.18	1.66	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Iodomethane	<0.148		0.436	0.148	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Isopropylbenzene	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
4-Isopropyltoluene	<0.227		0.436	0.227	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Methylene Chloride	<0.698		0.872	0.698	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
4-Methyl-2-pentanone (MIBK)	<1.57		2.18	1.57	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Methyl tert-butyl ether	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Naphthalene	<0.270		0.436	0.270	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
N-Propylbenzene	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Styrene	<0.166		0.436	0.166	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1,1,2-Tetrachloroethane	<0.113		0.436	0.113	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1,2,2-Tetrachloroethane	<0.183		0.436	0.183	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Tetrachloroethene	<0.227		0.436	0.227	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Toluene	<0.227		0.436	0.227	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2,3-Trichlorobenzene	<0.174		0.436	0.174	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2,4-Trichlorobenzene	<0.218		0.436	0.218	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1,1-Trichloroethane	<0.227		0.436	0.227	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100

Client Sample ID: WOTA-SS-02 (4)

Date Collected: 02/28/24 14:30
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-3

Matrix: Solid
Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.131		0.436	0.131	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Trichlorofluoromethane	<0.270		0.436	0.270	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2,3-Trichloropropane	<0.157		0.436	0.157	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.253		0.436	0.253	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,2,4-Trimethylbenzene	<0.218		0.436	0.218	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
1,3,5-Trimethylbenzene	<0.209		0.436	0.209	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Vinyl acetate	<0.480		0.872	0.480	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Vinyl chloride	<0.244		0.436	0.244	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
o-Xylene	<0.201		0.436	0.201	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
m-Xylene & p-Xylene	<0.192		0.436	0.192	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Xylenes, Total	<0.314		0.872	0.314	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Isopropyl ether	<0.131		0.872	0.131	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Hexane	<0.148		0.436	0.148	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
n-Heptane	<0.375		0.436	0.375	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100
Ethyl acetate	<0.872		0.872	0.872	mg/Kg	☼	03/01/24 08:57	03/06/24 21:15	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:15*	*100*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:15*	*100*
Dibromofluoromethane (Surr)	*110*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:15*	*100*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:15*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**153**		4.36	1.57	mg/Kg	☼	03/01/24 08:57	03/07/24 14:55	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*127*		*65 - 130*	*03/01/24 08:57*	*03/07/24 14:55*	*1000*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 130*	*03/01/24 08:57*	*03/07/24 14:55*	*1000*
Dibromofluoromethane (Surr)	*111*		*65 - 130*	*03/01/24 08:57*	*03/07/24 14:55*	*1000*
4-Bromofluorobenzene (Surr)	*116*		*65 - 130*	*03/01/24 08:57*	*03/07/24 14:55*	*1000*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0499		0.402	0.0499	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Acenaphthylene	<0.0438		0.402	0.0438	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Acetophenone	<0.0341		0.402	0.0341	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Anthracene	<0.0304		0.402	0.0304	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Atrazine	<0.0280		0.402	0.0280	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Benzaldehyde	<0.0706		0.402	0.0706	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Benzo[a]anthracene	**0.0896**	**J**	0.402	0.0329	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Benzo[a]pyrene	<0.0633		0.402	0.0633	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Benzo[b]fluoranthene	<0.0463		0.402	0.0463	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Benzo[g,h,i]perylene	<0.0268		0.402	0.0268	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Benzo[k]fluoranthene	<0.0791		0.402	0.0791	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
1,1'-Biphenyl	<2.07		2.07	2.07	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Bis(2-chloroethoxy)methane	<0.0475		0.402	0.0475	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Bis(2-chloroethyl)ether	<0.0548		0.402	0.0548	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
bis (2-chloroisopropyl) ether	<0.0365		0.402	0.0365	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Bis(2-ethylhexyl) phthalate	**0.0789**	**J**	0.402	0.0353	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-02 (4)
Date Collected: 02/28/24 14:30
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-3
Matrix: Solid
Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0438		0.402	0.0438	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Butyl benzyl phthalate	<0.0317		0.402	0.0317	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Caprolactam	<0.0804		0.402	0.0804	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Carbazole	<0.0365		0.402	0.0365	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
4-Chloroaniline	<0.0633		0.804	0.0633	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
4-Chloro-3-methylphenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2-Chloronaphthalene	<0.0426		0.402	0.0426	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2-Chlorophenol	<0.0487		0.402	0.0487	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
4-Chlorophenyl phenyl ether	<0.0536		0.402	0.0536	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Chrysene	**0.129**	**J**	0.402	0.0256	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Dibenz(a,h)anthracene	<0.0475		0.402	0.0475	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Dibenzofuran	<0.0402		0.402	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
3,3'-Dichlorobenzidine	<0.0341		0.804	0.0341	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2,4-Dichlorophenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Diethyl phthalate	<0.0450		0.402	0.0450	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2,4-Dimethylphenol	<0.0536		0.402	0.0536	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Dimethyl phthalate	<0.0414		0.402	0.0414	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Di-n-butyl phthalate	<0.0365		0.402	0.0365	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
4,6-Dinitro-2-methylphenol	<0.207		2.07	0.207	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2,4-Dinitrophenol	<1.01		2.07	1.01	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2,4-Dinitrotoluene	<0.0597		0.402	0.0597	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2,6-Dinitrotoluene	<0.0511		0.402	0.0511	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Di-n-octyl phthalate	<0.0353		0.402	0.0353	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Fluoranthene	**0.123**	**J**	0.402	0.0390	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Fluorene	<0.0438		0.402	0.0438	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Hexachlorobenzene	<0.0475		0.402	0.0475	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Hexachlorobutadiene	<0.0438		0.402	0.0438	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Hexachlorocyclopentadiene	<0.0499		0.402	0.0499	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Hexachloroethane	<0.0341		0.402	0.0341	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Indeno[1,2,3-cd]pyrene	<0.0341		0.402	0.0341	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Isophorone	<0.0402		0.402	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2-Methylnaphthalene	<0.0463		0.402	0.0463	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2-Methylphenol	<0.0329		0.402	0.0329	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
3 & 4 Methylphenol	<0.0524		0.402	0.0524	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Naphthalene	<0.0365		0.402	0.0365	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2-Nitroaniline	<0.0548		2.07	0.0548	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
3-Nitroaniline	<0.0560		2.07	0.0560	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
4-Nitroaniline	<0.0597		2.07	0.0597	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Nitrobenzene	<0.0317		0.402	0.0317	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2-Nitrophenol	<0.0499		0.402	0.0499	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
4-Nitrophenol	<0.402		2.07	0.402	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
N-Nitrosodi-n-propylamine	<0.0390		0.402	0.0390	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
N-Nitrosodiphenylamine	<0.0402		0.402	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Pentachlorophenol	<0.402		2.07	0.402	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Phenanthrene	**0.113**	**J**	0.402	0.0329	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Phenol	<0.0414		0.402	0.0414	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Pyrene	**0.168**	**J**	0.402	0.0329	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
Pyridine	<0.402		0.804	0.402	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1
2,4,5-Trichlorophenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1

Client Sample ID: WOTA-SS-02 (4)

Lab Sample ID: 680-247306-3
Date Collected: 02/28/24 14:30
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 77.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0353		0.402	0.0353	mg/Kg	☼	03/05/24 07:30	03/06/24 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/05/24 07:30*	*03/06/24 16:55*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 130*	*03/05/24 07:30*	*03/06/24 16:55*	*1*
Nitrobenzene-d5 (Surr)	*64*		*19 - 130*	*03/05/24 07:30*	*03/06/24 16:55*	*1*
Phenol-d5 (Surr)	*69*		*21 - 130*	*03/05/24 07:30*	*03/06/24 16:55*	*1*
Terphenyl-d14 (Surr)	*74*		*31 - 133*	*03/05/24 07:30*	*03/06/24 16:55*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*21 - 132*	*03/05/24 07:30*	*03/06/24 16:55*	*1*

Client Sample ID: WOTA-SS-02 (8)

Lab Sample ID: 680-247306-4
Date Collected: 02/28/24 14:40
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0622**		0.0419	0.00923	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Benzene	<0.00201		0.00419	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Bromobenzene	<0.00143		0.00419	0.00143	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Chlorobromomethane	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Dichlorobromomethane	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Bromoform	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Bromomethane	<0.00201		0.00419	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
2-Butanone (MEK)	<0.00772		0.0210	0.00772	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
n-Butylbenzene	<0.00159		0.00419	0.00159	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
sec-Butylbenzene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
tert-Butylbenzene	<0.00210		0.00419	0.00210	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Carbon disulfide	<0.00176		0.00419	0.00176	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Carbon tetrachloride	<0.00176		0.00419	0.00176	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Chlorobenzene	<0.00117		0.00419	0.00117	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Chloroethane	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Chloroform	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Chloromethane	<0.00201		0.00419	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
2-Chlorotoluene	<0.00193		0.00419	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
4-Chlorotoluene	<0.00176		0.00419	0.00176	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Chlorodibromomethane	<0.00176		0.00419	0.00176	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2-Dibromo-3-Chloropropane	<0.00134		0.00839	0.00134	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Ethylene Dibromide	<0.00143		0.00419	0.00143	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Dibromomethane	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2-Dichlorobenzene	**0.00866**		0.00419	0.00143	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,3-Dichlorobenzene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,4-Dichlorobenzene	**0.00324**	**J**	0.00419	0.00151	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
trans-1,4-Dichloro-2-butene	<0.00201		0.00839	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Dichlorodifluoromethane	<0.00268		0.00419	0.00268	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1-Dichloroethane	**0.00369**	**J**	0.00419	0.00243	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2-Dichloroethane	<0.00193		0.00419	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
cis-1,2-Dichloroethene	**0.0804**		0.00419	0.00243	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
trans-1,2-Dichloroethene	**0.00198**	**J**	0.00419	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1-Dichloroethene	<0.00302		0.00419	0.00302	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2-Dichloropropane	<0.00218		0.00419	0.00218	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1

Client Sample ID: WOTA-SS-02 (8)

Date Collected: 02/28/24 14:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-4

Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
2,2-Dichloropropane	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1-Dichloropropene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
cis-1,3-Dichloropropene	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
trans-1,3-Dichloropropene	<0.00218		0.00419	0.00218	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Ethylbenzene	<0.00176		0.00419	0.00176	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Hexachlorobutadiene	<0.00344		0.00419	0.00344	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
2-Hexanone	<0.0159		0.0210	0.0159	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Iodomethane	<0.00143		0.00419	0.00143	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Isopropylbenzene	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
4-Isopropyltoluene	<0.00218		0.00419	0.00218	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Methylene Chloride	<0.00671		0.00839	0.00671	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0151		0.0210	0.0151	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Methyl tert-butyl ether	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Naphthalene	**0.00294**	**J**	0.00419	0.00260	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
N-Propylbenzene	<0.00185		0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Styrene	<0.00159		0.00419	0.00159	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1,1,2-Tetrachloroethane	<0.00109		0.00419	0.00109	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1,2,2-Tetrachloroethane	<0.00176		0.00419	0.00176	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Tetrachloroethene	**0.00752**		0.00419	0.00218	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Toluene	**0.0101**		0.00419	0.00218	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2,3-Trichlorobenzene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2,4-Trichlorobenzene	<0.00210		0.00419	0.00210	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1,1-Trichloroethane	<0.00218		0.00419	0.00218	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1,2-Trichloroethane	<0.00126		0.00419	0.00126	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Trichlorofluoromethane	<0.00260		0.00419	0.00260	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2,3-Trichloropropane	<0.00151		0.00419	0.00151	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00243		0.00419	0.00243	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,2,4-Trimethylbenzene	<0.00210		0.00419	0.00210	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
1,3,5-Trimethylbenzene	<0.00201		0.00419	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Vinyl acetate	<0.00461		0.00839	0.00461	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Vinyl chloride	<0.00235		0.00419	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
o-Xylene	<0.00193		0.00419	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
m-Xylene & p-Xylene	**0.00217**	**J**	0.00419	0.00185	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Xylenes, Total	<0.00302		0.00839	0.00302	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Isopropyl ether	<0.00126		0.00839	0.00126	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Hexane	<0.00143		0.00419	0.00143	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
n-Heptane	<0.00361		0.00419	0.00361	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1
Ethyl acetate	<0.00839		0.00839	0.00839	mg/Kg	☼	03/01/24 08:57	03/06/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:00*	*1*
Dibromofluoromethane (Surr)	*111*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:00*	*1*
4-Bromofluorobenzene (Surr)	*112*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**13.0**		0.421	0.152	mg/Kg	☼	03/01/24 08:57	03/07/24 15:39	100

Client Sample ID: WOTA-SS-02 (8)

Date Collected: 02/28/24 14:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-4

Matrix: Solid
Percent Solids: 81.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*128*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:39*	*100*
1,2-Dichloroethane-d4 (Surr)	*118*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:39*	*100*
Dibromofluoromethane (Surr)	*119*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:39*	*100*
4-Bromofluorobenzene (Surr)	*112*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:39*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0479		0.385	0.0479	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Acenaphthylene	<0.0420		0.385	0.0420	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Acetophenone	<0.0327		0.385	0.0327	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Anthracene	<0.0292		0.385	0.0292	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Atrazine	<0.0269		0.385	0.0269	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Benzaldehyde	<0.0677		0.385	0.0677	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Benzo[a]anthracene	<0.0315		0.385	0.0315	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Benzo[a]pyrene	<0.0607		0.385	0.0607	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Benzo[b]fluoranthene	<0.0444		0.385	0.0444	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Benzo[g,h,i]perylene	<0.0257		0.385	0.0257	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Benzo[k]fluoranthene	<0.0759		0.385	0.0759	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
1,1'-Biphenyl	<1.99		1.99	1.99	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Bis(2-chloroethoxy)methane	<0.0456		0.385	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Bis(2-chloroethyl)ether	<0.0526		0.385	0.0526	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
bis (2-chloroisopropyl) ether	<0.0350		0.385	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Bis(2-ethylhexyl) phthalate	<0.0339		0.385	0.0339	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4-Bromophenyl phenyl ether	<0.0420		0.385	0.0420	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Butyl benzyl phthalate	<0.0304		0.385	0.0304	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Caprolactam	<0.0771		0.385	0.0771	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Carbazole	<0.0350		0.385	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4-Chloroaniline	<0.0607		0.771	0.0607	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4-Chloro-3-methylphenol	<0.0409		0.385	0.0409	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2-Chloronaphthalene	<0.0409		0.385	0.0409	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2-Chlorophenol	<0.0467		0.385	0.0467	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4-Chlorophenyl phenyl ether	<0.0514		0.385	0.0514	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Chrysene	<0.0245		0.385	0.0245	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Dibenz(a,h)anthracene	<0.0456		0.385	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Dibenzofuran	<0.0385		0.385	0.0385	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
3,3'-Dichlorobenzidine	<0.0327		0.771	0.0327	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,4-Dichlorophenol	<0.0409		0.385	0.0409	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Diethyl phthalate	<0.0432		0.385	0.0432	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,4-Dimethylphenol	<0.0514		0.385	0.0514	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Dimethyl phthalate	<0.0397		0.385	0.0397	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Di-n-butyl phthalate	<0.0350		0.385	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4,6-Dinitro-2-methylphenol	<0.199		1.99	0.199	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,4-Dinitrophenol	<0.969		1.99	0.969	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,4-Dinitrotoluene	<0.0572		0.385	0.0572	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,6-Dinitrotoluene	<0.0491		0.385	0.0491	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Di-n-octyl phthalate	<0.0339		0.385	0.0339	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Fluoranthene	<0.0374		0.385	0.0374	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Fluorene	<0.0420		0.385	0.0420	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Hexachlorobenzene	<0.0456		0.385	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Hexachlorobutadiene	<0.0420		0.385	0.0420	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1

Client Sample ID: WOTA-SS-02 (8)

Date Collected: 02/28/24 14:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-4

Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0479		0.385	0.0479	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Hexachloroethane	<0.0327		0.385	0.0327	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Indeno[1,2,3-cd]pyrene	<0.0327		0.385	0.0327	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Isophorone	<0.0385		0.385	0.0385	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2-Methylnaphthalene	<0.0444		0.385	0.0444	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2-Methylphenol	<0.0315		0.385	0.0315	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
3 & 4 Methylphenol	<0.0502		0.385	0.0502	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Naphthalene	<0.0350		0.385	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2-Nitroaniline	<0.0526		1.99	0.0526	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
3-Nitroaniline	<0.0537		1.99	0.0537	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4-Nitroaniline	<0.0572		1.99	0.0572	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Nitrobenzene	<0.0304		0.385	0.0304	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2-Nitrophenol	<0.0479		0.385	0.0479	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
4-Nitrophenol	<0.385		1.99	0.385	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
N-Nitrosodi-n-propylamine	<0.0374		0.385	0.0374	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
N-Nitrosodiphenylamine	<0.0385		0.385	0.0385	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Pentachlorophenol	<0.385		1.99	0.385	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Phenanthrene	<0.0315		0.385	0.0315	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Phenol	<0.0397		0.385	0.0397	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Pyrene	<0.0315		0.385	0.0315	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
Pyridine	<0.385		0.771	0.385	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,4,5-Trichlorophenol	<0.0409		0.385	0.0409	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1
2,4,6-Trichlorophenol	<0.0339		0.385	0.0339	mg/Kg	☼	03/05/24 07:30	03/06/24 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*25 - 130*	*03/05/24 07:30*	*03/06/24 17:21*	*1*
2-Fluorophenol (Surr)	*73*		*18 - 130*	*03/05/24 07:30*	*03/06/24 17:21*	*1*
Nitrobenzene-d5 (Surr)	*70*		*19 - 130*	*03/05/24 07:30*	*03/06/24 17:21*	*1*
Phenol-d5 (Surr)	*72*		*21 - 130*	*03/05/24 07:30*	*03/06/24 17:21*	*1*
Terphenyl-d14 (Surr)	*76*		*31 - 133*	*03/05/24 07:30*	*03/06/24 17:21*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*21 - 132*	*03/05/24 07:30*	*03/06/24 17:21*	*1*

Client Sample ID: WOTA-SS-03 (4)

Date Collected: 02/28/24 14:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-5

Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0756**		0.0483	0.0106	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Benzene	<0.00232		0.00483	0.00232	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Bromobenzene	<0.00164		0.00483	0.00164	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Chlorobromomethane	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Dichlorobromomethane	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Bromoform	<0.00213		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Bromomethane	<0.00232		0.00483	0.00232	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
2-Butanone (MEK)	**0.0107**	**J**	0.0242	0.00889	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
n-Butylbenzene	**0.00303**	**J**	0.00483	0.00184	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
sec-Butylbenzene	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
tert-Butylbenzene	<0.00242		0.00483	0.00242	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Carbon disulfide	<0.00203		0.00483	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1

Client Sample ID: WOTA-SS-03 (4)
Date Collected: 02/28/24 14:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-5
Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00203		0.00483	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Chlorobenzene	<0.00135		0.00483	0.00135	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Chloroethane	<0.00213		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Chloroform	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Chloromethane	<0.00232		0.00483	0.00232	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
2-Chlorotoluene	<0.00222		0.00483	0.00222	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
4-Chlorotoluene	<0.00203		0.00483	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Chlorodibromomethane	<0.00203		0.00483	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2-Dibromo-3-Chloropropane	<0.00155		0.00967	0.00155	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Ethylene Dibromide	<0.00164		0.00483	0.00164	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Dibromomethane	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2-Dichlorobenzene	<0.00164		0.00483	0.00164	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,3-Dichlorobenzene	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,4-Dichlorobenzene	<0.00174		0.00483	0.00174	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
trans-1,4-Dichloro-2-butene	<0.00232		0.00967	0.00232	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Dichlorodifluoromethane	<0.00309		0.00483	0.00309	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1-Dichloroethane	<0.00280		0.00483	0.00280	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2-Dichloroethane	<0.00222		0.00483	0.00222	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
cis-1,2-Dichloroethene	<0.00280		0.00483	0.00280	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
trans-1,2-Dichloroethene	<0.00222		0.00483	0.00222	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1-Dichloroethene	<0.00348		0.00483	0.00348	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2-Dichloropropane	<0.00251		0.00483	0.00251	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,3-Dichloropropane	<0.00213		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
2,2-Dichloropropane	<0.00213		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1-Dichloropropene	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
cis-1,3-Dichloropropene	<0.00213		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
trans-1,3-Dichloropropene	<0.00251		0.00483	0.00251	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Ethylbenzene	**0.0314**		0.00483	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Hexachlorobutadiene	**0.00427**	**J**	0.00483	0.00396	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
2-Hexanone	<0.0184		0.0242	0.0184	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Iodomethane	<0.00164		0.00483	0.00164	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Isopropylbenzene	**0.00318**	**J**	0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
4-Isopropyltoluene	**0.0248**		0.00483	0.00251	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Methylene Chloride	<0.00773		0.00967	0.00773	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
4-Methyl-2-pentanone (MIBK)	<0.0174		0.0242	0.0174	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Methyl tert-butyl ether	<0.00213		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Naphthalene	**0.0231**		0.00483	0.00300	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
N-Propylbenzene	**0.00321**	**J**	0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Styrene	<0.00184		0.00483	0.00184	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1,1,2-Tetrachloroethane	<0.00126		0.00483	0.00126	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1,2,2-Tetrachloroethane	<0.00203		0.00483	0.00203	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Tetrachloroethene	<0.00251		0.00483	0.00251	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Toluene	**0.0371**		0.00483	0.00251	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2,3-Trichlorobenzene	<0.00193		0.00483	0.00193	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2,4-Trichlorobenzene	<0.00242		0.00483	0.00242	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1,1-Trichloroethane	<0.00251		0.00483	0.00251	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1,2-Trichloroethane	<0.00145		0.00483	0.00145	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Trichloroethene	**0.0411**		0.00487	0.00175	mg/Kg	☼	03/01/24 08:57	03/07/24 12:23	1
Trichlorofluoromethane	<0.00300		0.00483	0.00300	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1

Client Sample ID: WOTA-SS-03 (4)

Date Collected: 02/28/24 14:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-5

Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.00174		0.00483	0.00174	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00280		0.00483	0.00280	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,2,4-Trimethylbenzene	**0.0141**		0.00483	0.00242	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
1,3,5-Trimethylbenzene	**0.00775**		0.00483	0.00232	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Vinyl acetate	<0.00532		0.00967	0.00532	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Vinyl chloride	**0.0188**		0.00483	0.00271	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
o-Xylene	**0.0533**		0.00483	0.00222	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
m-Xylene & p-Xylene	**0.0886**		0.00483	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Xylenes, Total	**0.142**		0.00967	0.00348	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Isopropyl ether	<0.00145		0.00967	0.00145	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Hexane	<0.00164		0.00483	0.00164	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
n-Heptane	**0.0626**		0.00483	0.00416	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1
Ethyl acetate	<0.00967		0.00967	0.00967	mg/Kg	☼	03/01/24 08:57	03/06/24 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:22*	*1*
Toluene-d8 (Surr)	*105*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:23*	*1*
Dibromofluoromethane (Surr)	*111*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:22*	*1*
Dibromofluoromethane (Surr)	*115*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:23*	*1*
4-Bromofluorobenzene (Surr)	*128*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:22*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*	*03/01/24 08:57*	*03/07/24 12:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0533		0.429	0.0533	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Acenaphthylene	<0.0468		0.429	0.0468	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Acetophenone	<0.0364		0.429	0.0364	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Anthracene	<0.0325		0.429	0.0325	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Atrazine	<0.0299		0.429	0.0299	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Benzaldehyde	<0.0754		0.429	0.0754	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Benzo[a]anthracene	**0.0760**	**J**	0.429	0.0351	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Benzo[a]pyrene	<0.0676		0.429	0.0676	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Benzo[b]fluoranthene	<0.0494		0.429	0.0494	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Benzo[g,h,i]perylene	<0.0286		0.429	0.0286	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Benzo[k]fluoranthene	<0.0845		0.429	0.0845	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
1,1'-Biphenyl	<2.21		2.21	2.21	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Bis(2-chloroethoxy)methane	<0.0507		0.429	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Bis(2-chloroethyl)ether	<0.0585		0.429	0.0585	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
bis (2-chloroisopropyl) ether	<0.0390		0.429	0.0390	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Bis(2-ethylhexyl) phthalate	**0.0752**	**J**	0.429	0.0377	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
4-Bromophenyl phenyl ether	<0.0468		0.429	0.0468	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Butyl benzyl phthalate	<0.0338		0.429	0.0338	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Caprolactam	<0.0858		0.429	0.0858	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Carbazole	<0.0390		0.429	0.0390	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
4-Chloroaniline	<0.0676		0.858	0.0676	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
4-Chloro-3-methylphenol	<0.0455		0.429	0.0455	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2-Chloronaphthalene	<0.0455		0.429	0.0455	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2-Chlorophenol	<0.0520		0.429	0.0520	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-03 (4)
Date Collected: 02/28/24 14:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-5
Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.0572		0.429	0.0572	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Chrysene	**0.157**	**J**	0.429	0.0273	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Dibenz(a,h)anthracene	<0.0507		0.429	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Dibenzofuran	<0.0429		0.429	0.0429	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
3,3'-Dichlorobenzidine	<0.0364		0.858	0.0364	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,4-Dichlorophenol	<0.0455		0.429	0.0455	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Diethyl phthalate	<0.0481		0.429	0.0481	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,4-Dimethylphenol	<0.0572		0.429	0.0572	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Dimethyl phthalate	<0.0442		0.429	0.0442	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Di-n-butyl phthalate	<0.0390		0.429	0.0390	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
4,6-Dinitro-2-methylphenol	<0.221		2.21	0.221	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,4-Dinitrophenol	<1.08		2.21	1.08	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,4-Dinitrotoluene	<0.0637		0.429	0.0637	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,6-Dinitrotoluene	<0.0546		0.429	0.0546	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Di-n-octyl phthalate	<0.0377		0.429	0.0377	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Fluoranthene	**0.0924**	**J**	0.429	0.0416	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Fluorene	<0.0468		0.429	0.0468	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Hexachlorobenzene	<0.0507		0.429	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Hexachlorobutadiene	<0.0468		0.429	0.0468	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Hexachlorocyclopentadiene	<0.0533		0.429	0.0533	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Hexachloroethane	<0.0364		0.429	0.0364	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Indeno[1,2,3-cd]pyrene	<0.0364		0.429	0.0364	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Isophorone	<0.0429		0.429	0.0429	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2-Methylnaphthalene	<0.0494		0.429	0.0494	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2-Methylphenol	<0.0351		0.429	0.0351	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
3 & 4 Methylphenol	<0.0559		0.429	0.0559	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Naphthalene	<0.0390		0.429	0.0390	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2-Nitroaniline	<0.0585		2.21	0.0585	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
3-Nitroaniline	<0.0598		2.21	0.0598	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
4-Nitroaniline	<0.0637		2.21	0.0637	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Nitrobenzene	<0.0338		0.429	0.0338	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2-Nitrophenol	<0.0533		0.429	0.0533	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
4-Nitrophenol	<0.429		2.21	0.429	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
N-Nitrosodi-n-propylamine	<0.0416		0.429	0.0416	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
N-Nitrosodiphenylamine	<0.0429		0.429	0.0429	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Pentachlorophenol	<0.429		2.21	0.429	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Phenanthrene	**0.156**	**J**	0.429	0.0351	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Phenol	<0.0442		0.429	0.0442	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Pyrene	**0.105**	**J**	0.429	0.0351	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
Pyridine	<0.429		0.858	0.429	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,4,5-Trichlorophenol	<0.0455		0.429	0.0455	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1
2,4,6-Trichlorophenol	<0.0377		0.429	0.0377	mg/Kg	☼	03/05/24 07:30	03/06/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*25 - 130*	*03/05/24 07:30*	*03/06/24 17:47*	*1*
2-Fluorophenol (Surr)	*71*		*18 - 130*	*03/05/24 07:30*	*03/06/24 17:47*	*1*
Nitrobenzene-d5 (Surr)	*69*		*19 - 130*	*03/05/24 07:30*	*03/06/24 17:47*	*1*
Phenol-d5 (Surr)	*71*		*21 - 130*	*03/05/24 07:30*	*03/06/24 17:47*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/05/24 07:30*	*03/06/24 17:47*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*21 - 132*	*03/05/24 07:30*	*03/06/24 17:47*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-03 (8)
Date Collected: 02/28/24 15:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-6
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0705**		0.0560	0.0123	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Benzene	<0.00269		0.00560	0.00269	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Bromobenzene	<0.00190		0.00560	0.00190	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Chlorobromomethane	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Dichlorobromomethane	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Bromoform	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Bromomethane	<0.00269		0.00560	0.00269	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
2-Butanone (MEK)	**0.0229**	**J**	0.0280	0.0103	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
n-Butylbenzene	<0.00213		0.00560	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
sec-Butylbenzene	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
tert-Butylbenzene	<0.00280		0.00560	0.00280	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Carbon disulfide	**0.00472**	**J**	0.00560	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Carbon tetrachloride	<0.00235		0.00560	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Chlorobenzene	<0.00157		0.00560	0.00157	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Chloroethane	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Chloroform	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Chloromethane	<0.00269		0.00560	0.00269	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
2-Chlorotoluene	<0.00257		0.00560	0.00257	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
4-Chlorotoluene	<0.00235		0.00560	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Chlorodibromomethane	<0.00235		0.00560	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2-Dibromo-3-Chloropropane	<0.00179		0.0112	0.00179	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Ethylene Dibromide	<0.00190		0.00560	0.00190	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Dibromomethane	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2-Dichlorobenzene	**0.00243**	**J**	0.00560	0.00190	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,3-Dichlorobenzene	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,4-Dichlorobenzene	<0.00201		0.00560	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
trans-1,4-Dichloro-2-butene	<0.00269		0.0112	0.00269	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Dichlorodifluoromethane	<0.00358		0.00560	0.00358	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1-Dichloroethane	<0.00325		0.00560	0.00325	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2-Dichloroethane	<0.00257		0.00560	0.00257	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
cis-1,2-Dichloroethene	**0.0922**		0.00560	0.00325	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
trans-1,2-Dichloroethene	<0.00257		0.00560	0.00257	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1-Dichloroethene	<0.00403		0.00560	0.00403	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2-Dichloropropane	<0.00291		0.00560	0.00291	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,3-Dichloropropane	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
2,2-Dichloropropane	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1-Dichloropropene	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
cis-1,3-Dichloropropene	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
trans-1,3-Dichloropropene	<0.00291		0.00560	0.00291	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Ethylbenzene	<0.00235		0.00560	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Hexachlorobutadiene	<0.00459		0.00560	0.00459	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
2-Hexanone	<0.0213		0.0280	0.0213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Iodomethane	<0.00190		0.00560	0.00190	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Isopropylbenzene	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
4-Isopropyltoluene	<0.00291		0.00560	0.00291	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Methylene Chloride	<0.00895		0.0112	0.00895	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
4-Methyl-2-pentanone (MIBK)	<0.0201		0.0280	0.0201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Methyl tert-butyl ether	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Naphthalene	<0.00347		0.00560	0.00347	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1

Client Sample ID: WOTA-SS-03 (8)
Date Collected: 02/28/24 15:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-6
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Styrene	<0.00213		0.00560	0.00213	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1,1,2-Tetrachloroethane	<0.00146		0.00560	0.00146	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1,2,2-Tetrachloroethane	<0.00235		0.00560	0.00235	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Tetrachloroethene	<0.00291		0.00560	0.00291	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Toluene	<0.00291		0.00560	0.00291	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2,3-Trichlorobenzene	<0.00224		0.00560	0.00224	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2,4-Trichlorobenzene	<0.00280		0.00560	0.00280	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1,1-Trichloroethane	<0.00291		0.00560	0.00291	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1,2-Trichloroethane	<0.00168		0.00560	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Trichlorofluoromethane	<0.00347		0.00560	0.00347	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2,3-Trichloropropane	<0.00201		0.00560	0.00201	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00612**		0.00560	0.00325	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,2,4-Trimethylbenzene	<0.00280		0.00560	0.00280	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
1,3,5-Trimethylbenzene	<0.00269		0.00560	0.00269	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Vinyl acetate	<0.00616		0.0112	0.00616	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Vinyl chloride	**0.00531**	**J**	0.00560	0.00313	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
o-Xylene	<0.00257		0.00560	0.00257	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
m-Xylene & p-Xylene	<0.00246		0.00560	0.00246	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Xylenes, Total	<0.00403		0.0112	0.00403	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Isopropyl ether	<0.00168		0.0112	0.00168	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Hexane	<0.00190		0.00560	0.00190	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
n-Heptane	<0.00481		0.00560	0.00481	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1
Ethyl acetate	<0.0112		0.0112	0.0112	mg/Kg	☼	03/01/24 08:57	03/06/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:44*	*1*
Dibromofluoromethane (Surr)	*111*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:44*	*1*
4-Bromofluorobenzene (Surr)	*112*		*65 - 130*	*03/01/24 08:57*	*03/06/24 18:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**0.691**		0.214	0.0769	mg/Kg	☼	03/01/24 08:57	03/07/24 17:28	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*130*		*65 - 130*	*03/01/24 08:57*	*03/07/24 17:28*	*40*
1,2-Dichloroethane-d4 (Surr)	*133*		*65 - 130*	*03/01/24 08:57*	*03/07/24 17:28*	*40*
Dibromofluoromethane (Surr)	*139*		*65 - 130*	*03/01/24 08:57*	*03/07/24 17:28*	*40*
4-Bromofluorobenzene (Surr)	*106*		*65 - 130*	*03/01/24 08:57*	*03/07/24 17:28*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0501		0.403	0.0501	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Acenaphthylene	<0.0440		0.403	0.0440	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Acetophenone	<0.0342		0.403	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Anthracene	<0.0305		0.403	0.0305	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Atrazine	<0.0281		0.403	0.0281	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Benzaldehyde	<0.0708		0.403	0.0708	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Benzo[a]anthracene	<0.0330		0.403	0.0330	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-03 (8)
Date Collected: 02/28/24 15:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-6
Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0635		0.403	0.0635	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Benzo[b]fluoranthene	<0.0464		0.403	0.0464	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Benzo[g,h,i]perylene	<0.0269		0.403	0.0269	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Benzo[k]fluoranthene	<0.0794		0.403	0.0794	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
1,1'-Biphenyl	<2.08		2.08	2.08	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Bis(2-chloroethoxy)methane	<0.0476		0.403	0.0476	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Bis(2-chloroethyl)ether	<0.0549		0.403	0.0549	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
bis (2-chloroisopropyl) ether	<0.0366		0.403	0.0366	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Bis(2-ethylhexyl) phthalate	<0.0354		0.403	0.0354	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
4-Bromophenyl phenyl ether	<0.0440		0.403	0.0440	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Butyl benzyl phthalate	<0.0317		0.403	0.0317	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Caprolactam	<0.0806		0.403	0.0806	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Carbazole	<0.0366		0.403	0.0366	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
4-Chloroaniline	<0.0635		0.806	0.0635	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
4-Chloro-3-methylphenol	<0.0427		0.403	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2-Chloronaphthalene	<0.0427		0.403	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2-Chlorophenol	<0.0488		0.403	0.0488	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
4-Chlorophenyl phenyl ether	<0.0537		0.403	0.0537	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Chrysene	<0.0256		0.403	0.0256	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Dibenz(a,h)anthracene	<0.0476		0.403	0.0476	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Dibenzofuran	<0.0403		0.403	0.0403	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
3,3'-Dichlorobenzidine	<0.0342		0.806	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,4-Dichlorophenol	<0.0427		0.403	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Diethyl phthalate	<0.0452		0.403	0.0452	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,4-Dimethylphenol	<0.0537		0.403	0.0537	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Dimethyl phthalate	<0.0415		0.403	0.0415	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Di-n-butyl phthalate	<0.0366		0.403	0.0366	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
4,6-Dinitro-2-methylphenol	<0.208		2.08	0.208	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,4-Dinitrophenol	<1.01		2.08	1.01	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,4-Dinitrotoluene	<0.0598		0.403	0.0598	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,6-Dinitrotoluene	<0.0513		0.403	0.0513	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Di-n-octyl phthalate	<0.0354		0.403	0.0354	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Fluoranthene	<0.0391		0.403	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Fluorene	<0.0440		0.403	0.0440	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Hexachlorobenzene	<0.0476		0.403	0.0476	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Hexachlorobutadiene	<0.0440		0.403	0.0440	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Hexachlorocyclopentadiene	<0.0501		0.403	0.0501	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Hexachloroethane	<0.0342		0.403	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Indeno[1,2,3-cd]pyrene	<0.0342		0.403	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Isophorone	<0.0403		0.403	0.0403	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2-Methylnaphthalene	<0.0464		0.403	0.0464	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2-Methylphenol	<0.0330		0.403	0.0330	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
3 & 4 Methylphenol	<0.0525		0.403	0.0525	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Naphthalene	<0.0366		0.403	0.0366	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2-Nitroaniline	<0.0549		2.08	0.0549	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
3-Nitroaniline	<0.0562		2.08	0.0562	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
4-Nitroaniline	<0.0598		2.08	0.0598	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Nitrobenzene	<0.0317		0.403	0.0317	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2-Nitrophenol	<0.0501		0.403	0.0501	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1

Client Sample ID: WOTA-SS-03 (8)

Date Collected: 02/28/24 15:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-6

Matrix: Solid
Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.403		2.08	0.403	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
N-Nitrosodi-n-propylamine	<0.0391		0.403	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
N-Nitrosodiphenylamine	<0.0403		0.403	0.0403	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Pentachlorophenol	<0.403		2.08	0.403	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Phenanthrene	<0.0330		0.403	0.0330	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Phenol	<0.0415		0.403	0.0415	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Pyrene	<0.0330		0.403	0.0330	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
Pyridine	<0.403		0.806	0.403	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,4,5-Trichlorophenol	<0.0427		0.403	0.0427	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1
2,4,6-Trichlorophenol	<0.0354		0.403	0.0354	mg/Kg	☼	03/05/24 07:30	03/06/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/05/24 07:30*	*03/06/24 18:14*	*1*
2-Fluorophenol (Surr)	*75*		*18 - 130*	*03/05/24 07:30*	*03/06/24 18:14*	*1*
Nitrobenzene-d5 (Surr)	*73*		*19 - 130*	*03/05/24 07:30*	*03/06/24 18:14*	*1*
Phenol-d5 (Surr)	*74*		*21 - 130*	*03/05/24 07:30*	*03/06/24 18:14*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/05/24 07:30*	*03/06/24 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*21 - 132*	*03/05/24 07:30*	*03/06/24 18:14*	*1*

Client Sample ID: DUP-WOTA

Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-10

Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.31		5.94	1.31	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Benzene	<0.285		0.594	0.285	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Bromobenzene	<0.202		0.594	0.202	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Chlorobromomethane	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Dichlorobromomethane	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Bromoform	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Bromomethane	<0.285		0.594	0.285	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
2-Butanone (MEK)	<1.09		2.97	1.09	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
n-Butylbenzene	<0.226		0.594	0.226	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
sec-Butylbenzene	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
tert-Butylbenzene	<0.297		0.594	0.297	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Carbon disulfide	<0.250		0.594	0.250	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Carbon tetrachloride	<0.250		0.594	0.250	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Chlorobenzene	<0.166		0.594	0.166	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Chloroethane	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Chloroform	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Chloromethane	<0.285		0.594	0.285	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
2-Chlorotoluene	<0.273		0.594	0.273	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
4-Chlorotoluene	<0.250		0.594	0.250	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Chlorodibromomethane	<0.250		0.594	0.250	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2-Dibromo-3-Chloropropane	<0.190		1.19	0.190	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Ethylene Dibromide	<0.202		0.594	0.202	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Dibromomethane	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2-Dichlorobenzene	<0.202		0.594	0.202	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,3-Dichlorobenzene	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: DUP-WOTA
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-10
Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.214		0.594	0.214	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
trans-1,4-Dichloro-2-butene	<0.285		1.19	0.285	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Dichlorodifluoromethane	<0.380		0.594	0.380	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1-Dichloroethane	<0.345		0.594	0.345	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2-Dichloroethane	<0.273		0.594	0.273	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
cis-1,2-Dichloroethene	<0.345		0.594	0.345	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
trans-1,2-Dichloroethene	<0.273		0.594	0.273	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1-Dichloroethene	<0.428		0.594	0.428	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2-Dichloropropane	<0.309		0.594	0.309	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,3-Dichloropropane	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
2,2-Dichloropropane	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1-Dichloropropene	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
cis-1,3-Dichloropropene	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
trans-1,3-Dichloropropene	<0.309		0.594	0.309	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Ethylbenzene	<0.250		0.594	0.250	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Hexachlorobutadiene	<0.487		0.594	0.487	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
2-Hexanone	<2.26		2.97	2.26	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Iodomethane	<0.202		0.594	0.202	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Isopropylbenzene	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
4-Isopropyltoluene	<0.309		0.594	0.309	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Methylene Chloride	<0.951		1.19	0.951	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
4-Methyl-2-pentanone (MIBK)	<2.14		2.97	2.14	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Methyl tert-butyl ether	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Naphthalene	<0.368		0.594	0.368	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
N-Propylbenzene	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Styrene	<0.226		0.594	0.226	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1,1,2-Tetrachloroethane	<0.155		0.594	0.155	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1,2,2-Tetrachloroethane	<0.250		0.594	0.250	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Tetrachloroethene	<0.309		0.594	0.309	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Toluene	<0.309		0.594	0.309	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2,3-Trichlorobenzene	<0.238		0.594	0.238	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2,4-Trichlorobenzene	<0.297		0.594	0.297	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1,1-Trichloroethane	<0.309		0.594	0.309	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1,2-Trichloroethane	<0.178		0.594	0.178	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Trichlorofluoromethane	<0.368		0.594	0.368	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2,3-Trichloropropane	<0.214		0.594	0.214	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.345		0.594	0.345	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,2,4-Trimethylbenzene	<0.297		0.594	0.297	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
1,3,5-Trimethylbenzene	<0.285		0.594	0.285	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Vinyl acetate	<0.654		1.19	0.654	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Vinyl chloride	<0.333		0.594	0.333	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
o-Xylene	<0.273		0.594	0.273	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
m-Xylene & p-Xylene	<0.262		0.594	0.262	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Xylenes, Total	<0.428		1.19	0.428	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Isopropyl ether	<0.178		1.19	0.178	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Hexane	<0.202		0.594	0.202	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
n-Heptane	<0.511		0.594	0.511	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100
Ethyl acetate	<1.19		1.19	1.19	mg/Kg	☼	03/01/24 08:57	03/06/24 21:37	100

Client Sample ID: DUP-WOTA

Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-10

Matrix: Solid
Percent Solids: 78.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:37*	*100*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:37*	*100*
Dibromofluoromethane (Surr)	*108*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:37*	*100*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*	*03/01/24 08:57*	*03/06/24 21:37*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**102**		5.94	2.14	mg/Kg	☼	03/01/24 08:57	03/07/24 15:17	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*127*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:17*	*1000*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:17*	*1000*
Dibromofluoromethane (Surr)	*116*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:17*	*1000*
4-Bromofluorobenzene (Surr)	*111*		*65 - 130*	*03/01/24 08:57*	*03/07/24 15:17*	*1000*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0495		0.398	0.0495	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Acenaphthylene	<0.0435		0.398	0.0435	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Acetophenone	<0.0338		0.398	0.0338	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Anthracene	<0.0302		0.398	0.0302	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Atrazine	<0.0278		0.398	0.0278	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Benzaldehyde	<0.0700		0.398	0.0700	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Benzo[a]anthracene	**0.103**	**J**	0.398	0.0326	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Benzo[a]pyrene	<0.0628		0.398	0.0628	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Benzo[b]fluoranthene	<0.0459		0.398	0.0459	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Benzo[g,h,i]perylene	**0.0851**	**J**	0.398	0.0266	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Benzo[k]fluoranthene	<0.0785		0.398	0.0785	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
1,1'-Biphenyl	<2.05		2.05	2.05	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Bis(2-chloroethoxy)methane	<0.0471		0.398	0.0471	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Bis(2-chloroethyl)ether	<0.0543		0.398	0.0543	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
bis (2-chloroisopropyl) ether	<0.0362		0.398	0.0362	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Bis(2-ethylhexyl) phthalate	**0.0907**	**J**	0.398	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
4-Bromophenyl phenyl ether	<0.0435		0.398	0.0435	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Butyl benzyl phthalate	<0.0314		0.398	0.0314	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Caprolactam	<0.0797		0.398	0.0797	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Carbazole	<0.0362		0.398	0.0362	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
4-Chloroaniline	<0.0628		0.797	0.0628	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
4-Chloro-3-methylphenol	<0.0423		0.398	0.0423	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2-Chloronaphthalene	<0.0423		0.398	0.0423	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2-Chlorophenol	<0.0483		0.398	0.0483	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
4-Chlorophenyl phenyl ether	<0.0531		0.398	0.0531	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Chrysene	**0.186**	**J**	0.398	0.0254	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Dibenz(a,h)anthracene	<0.0471		0.398	0.0471	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Dibenzofuran	<0.0398		0.398	0.0398	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
3,3'-Dichlorobenzidine	<0.0338		0.797	0.0338	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,4-Dichlorophenol	<0.0423		0.398	0.0423	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Diethyl phthalate	<0.0447		0.398	0.0447	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,4-Dimethylphenol	<0.0531		0.398	0.0531	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Dimethyl phthalate	<0.0411		0.398	0.0411	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Di-n-butyl phthalate	<0.0362		0.398	0.0362	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: DUP-WOTA

Lab Sample ID: 680-247306-10
Date Collected: 02/28/24 00:00
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.205		2.05	0.205	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,4-Dinitrophenol	<1.00		2.05	1.00	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,4-Dinitrotoluene	<0.0592		0.398	0.0592	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,6-Dinitrotoluene	<0.0507		0.398	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Di-n-octyl phthalate	<0.0350		0.398	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Fluoranthene	**0.184**	**J**	0.398	0.0386	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Fluorene	<0.0435		0.398	0.0435	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Hexachlorobenzene	<0.0471		0.398	0.0471	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Hexachlorobutadiene	<0.0435		0.398	0.0435	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Hexachlorocyclopentadiene	<0.0495		0.398	0.0495	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Hexachloroethane	<0.0338		0.398	0.0338	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Indeno[1,2,3-cd]pyrene	<0.0338		0.398	0.0338	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Isophorone	<0.0398		0.398	0.0398	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2-Methylnaphthalene	<0.0459		0.398	0.0459	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2-Methylphenol	<0.0326		0.398	0.0326	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
3 & 4 Methylphenol	<0.0519		0.398	0.0519	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Naphthalene	<0.0362		0.398	0.0362	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2-Nitroaniline	<0.0543		2.05	0.0543	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
3-Nitroaniline	<0.0555		2.05	0.0555	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
4-Nitroaniline	<0.0592		2.05	0.0592	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Nitrobenzene	<0.0314		0.398	0.0314	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2-Nitrophenol	<0.0495		0.398	0.0495	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
4-Nitrophenol	<0.398		2.05	0.398	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
N-Nitrosodi-n-propylamine	<0.0386		0.398	0.0386	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
N-Nitrosodiphenylamine	<0.0398		0.398	0.0398	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Pentachlorophenol	<0.398		2.05	0.398	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Phenanthrene	**0.156**	**J**	0.398	0.0326	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Phenol	<0.0411		0.398	0.0411	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Pyrene	**0.259**	**J**	0.398	0.0326	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
Pyridine	<0.398		0.797	0.398	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,4,5-Trichlorophenol	<0.0423		0.398	0.0423	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1
2,4,6-Trichlorophenol	<0.0350		0.398	0.0350	mg/Kg	☼	03/05/24 07:30	03/06/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*03/05/24 07:30*	*03/06/24 19:58*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 130*	*03/05/24 07:30*	*03/06/24 19:58*	*1*
Nitrobenzene-d5 (Surr)	*67*		*19 - 130*	*03/05/24 07:30*	*03/06/24 19:58*	*1*
Phenol-d5 (Surr)	*69*		*21 - 130*	*03/05/24 07:30*	*03/06/24 19:58*	*1*
Terphenyl-d14 (Surr)	*74*		*31 - 133*	*03/05/24 07:30*	*03/06/24 19:58*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*21 - 132*	*03/05/24 07:30*	*03/06/24 19:58*	*1*

Client Sample ID: TB-01_20240228

Lab Sample ID: 680-247306-11
Date Collected: 02/28/24 00:00
Matrix: Water
Date Received: 02/29/24 10:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/04/24 13:57	1
Benzene	<0.270		1.00	0.270	ug/L			03/04/24 13:57	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/04/24 13:57	1

Client Sample ID: TB-01_20240228
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-11
Matrix: Water

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			03/04/24 13:57	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/04/24 13:57	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/04/24 13:57	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/04/24 13:57	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/04/24 13:57	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/04/24 13:57	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/04/24 13:57	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/04/24 13:57	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/04/24 13:57	1
Chloroform	<0.270		1.00	0.270	ug/L			03/04/24 13:57	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/04/24 13:57	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/04/24 13:57	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/04/24 13:57	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/04/24 13:57	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/04/24 13:57	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/04/24 13:57	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/04/24 13:57	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 13:57	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 13:57	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 13:57	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/04/24 13:57	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			03/04/24 13:57	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/04/24 13:57	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/04/24 13:57	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/04/24 13:57	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/04/24 13:57	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/04/24 13:57	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/04/24 13:57	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/04/24 13:57	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/04/24 13:57	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/04/24 13:57	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/04/24 13:57	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/04/24 13:57	1
Hexane	<0.650		5.00	0.650	ug/L			03/04/24 13:57	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/04/24 13:57	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/04/24 13:57	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/04/24 13:57	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/04/24 13:57	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/04/24 13:57	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/04/24 13:57	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/04/24 13:57	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/04/24 13:57	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/04/24 13:57	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/04/24 13:57	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/04/24 13:57	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/04/24 13:57	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/04/24 13:57	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/04/24 13:57	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/04/24 13:57	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: TB-01_20240228
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.270		1.00	0.270	ug/L			03/04/24 13:57	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/04/24 13:57	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/04/24 13:57	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/04/24 13:57	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/04/24 13:57	1
Toluene	<0.250		1.00	0.250	ug/L			03/04/24 13:57	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/04/24 13:57	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/04/24 13:57	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/04/24 13:57	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/04/24 13:57	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/04/24 13:57	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/04/24 13:57	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/04/24 13:57	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/04/24 13:57	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/04/24 13:57	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/04/24 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/04/24 13:57	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/04/24 13:57	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/04/24 13:57	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/04/24 13:57	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/04/24 13:57	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/04/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/04/24 13:57*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/04/24 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*03/04/24 13:57*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/04/24 13:57*	*1*

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

Lab Sample ID: MB 680-825632/10
Matrix: Water
Analysis Batch: 825632

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/04/24 12:40	1
Benzene	<0.270		1.00	0.270	ug/L			03/04/24 12:40	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/04/24 12:40	1
Bromoform	<0.590		1.00	0.590	ug/L			03/04/24 12:40	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/04/24 12:40	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/04/24 12:40	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/04/24 12:40	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/04/24 12:40	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/04/24 12:40	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/04/24 12:40	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/04/24 12:40	1
Chloroform	<0.270		1.00	0.270	ug/L			03/04/24 12:40	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/04/24 12:40	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/04/24 12:40	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/04/24 12:40	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/04/24 12:40	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/04/24 12:40	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/04/24 12:40	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 12:40	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 12:40	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 12:40	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/04/24 12:40	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/04/24 12:40	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/04/24 12:40	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/04/24 12:40	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/04/24 12:40	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/04/24 12:40	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/04/24 12:40	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/04/24 12:40	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/04/24 12:40	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/04/24 12:40	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/04/24 12:40	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/04/24 12:40	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/04/24 12:40	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/04/24 12:40	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/04/24 12:40	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/04/24 12:40	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/04/24 12:40	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/04/24 12:40	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/04/24 12:40	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/04/24 12:40	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/04/24 12:40	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/04/24 12:40	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/04/24 12:40	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/04/24 12:40	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/04/24 12:40	1
Styrene	<0.270		1.00	0.270	ug/L			03/04/24 12:40	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/04/24 12:40	1

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

Lab Sample ID: MB 680-825632/10
Matrix: Water
Analysis Batch: 825632

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			03/04/24 12:40	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/04/24 12:40	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/04/24 12:40	1
Toluene	<0.250		1.00	0.250	ug/L			03/04/24 12:40	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/04/24 12:40	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/04/24 12:40	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/04/24 12:40	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/04/24 12:40	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/04/24 12:40	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/04/24 12:40	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/04/24 12:40	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/04/24 12:40	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/04/24 12:40	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/04/24 12:40	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/04/24 12:40	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/04/24 12:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/04/24 12:40	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/04/24 12:40	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/04/24 12:40	1
Hexane	<0.650		5.00	0.650	ug/L			03/04/24 12:40	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/04/24 12:40	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/04/24 12:40	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/04/24 12:40	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/04/24 12:40	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/04/24 12:40	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/04/24 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/04/24 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/04/24 12:40*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/04/24 12:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/04/24 12:40*	*1*

Lab Sample ID: LCS 680-825632/6
Matrix: Water
Analysis Batch: 825632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	205.2		ug/L		82	67 - 120
Benzene	50.0	52.05		ug/L		104	70 - 130
Bromobenzene	50.0	57.65		ug/L		115	70 - 130
Bromoform	50.0	40.70		ug/L		81	69 - 129
Bromomethane	50.0	57.71		ug/L		115	28 - 192
2-Butanone (MEK)	250	191.7		ug/L		77	69 - 120
Chlorobromomethane	50.0	51.58		ug/L		103	70 - 130
Carbon disulfide	50.0	58.64		ug/L		117	70 - 130
Carbon tetrachloride	50.0	40.56		ug/L		81	70 - 130
Chlorobenzene	50.0	53.60		ug/L		107	70 - 130

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

Lab Sample ID: LCS 680-825632/6
Matrix: Water
Analysis Batch: 825632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	72.42		ug/L		145	31 - 213
Chloroform	50.0	47.55		ug/L		95	70 - 130
Chloromethane	50.0	66.35	*+	ug/L		133	59 - 127
2-Chlorotoluene	50.0	58.95		ug/L		118	70 - 130
4-Chlorotoluene	50.0	59.34		ug/L		119	70 - 130
Chlorodibromomethane	50.0	44.93		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	31.55	*-	ug/L		63	70 - 130
Dibromomethane	50.0	49.12		ug/L		98	70 - 130
1,2-Dichlorobenzene	50.0	50.64		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	54.70		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	54.08		ug/L		108	70 - 130
Dichlorobromomethane	50.0	45.85		ug/L		92	70 - 130
Dichlorodifluoromethane	50.0	91.59	*+	ug/L		183	70 - 130
1,1-Dichloroethane	50.0	52.75		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	45.10		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	50.41		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	56.05		ug/L		112	70 - 130
1,2-Dichloropropane	50.0	51.47		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	52.93		ug/L		106	70 - 130
2,2-Dichloropropane	50.0	48.38		ug/L		97	70 - 130
1,1-Dichloropropene	50.0	53.52		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	49.72		ug/L		99	70 - 130
Ethylene Dibromide	50.0	53.14		ug/L		106	70 - 130
Ethylbenzene	50.0	52.53		ug/L		105	70 - 130
Hexachlorobutadiene	50.0	48.85		ug/L		98	70 - 130
2-Hexanone	250	205.5		ug/L		82	70 - 130
Iodomethane	50.0	47.39		ug/L		95	52 - 129
Isopropylbenzene	50.0	58.39		ug/L		117	70 - 130
4-Isopropyltoluene	50.0	56.93		ug/L		114	70 - 130
Methylene Chloride	50.0	49.74		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	250	220.2		ug/L		88	68 - 120
Methyl tert-butyl ether	50.0	44.42		ug/L		89	70 - 130
Naphthalene	50.0	45.23		ug/L		90	57 - 149
n-Butylbenzene	50.0	56.87		ug/L		114	70 - 130
N-Propylbenzene	50.0	57.48		ug/L		115	70 - 130
sec-Butylbenzene	50.0	56.40		ug/L		113	70 - 130
Styrene	50.0	58.51		ug/L		117	70 - 130
tert-Butylbenzene	50.0	55.95		ug/L		112	70 - 130
1,1,1,2-Tetrachloroethane	50.0	45.83		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.09		ug/L		94	70 - 130
Tetrachloroethene	50.0	49.82		ug/L		100	70 - 130
Toluene	50.0	50.54		ug/L		101	70 - 130
trans-1,4-Dichloro-2-butene	50.0	38.04		ug/L		76	67 - 120
trans-1,2-Dichloroethene	50.0	52.84		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	49.43		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	50.0	47.30		ug/L		95	61 - 141
1,2,4-Trichlorobenzene	50.0	50.36		ug/L		101	70 - 130
1,1,1-Trichloroethane	50.0	45.02		ug/L		90	70 - 130
o-Xylene	50.0	54.18		ug/L		108	70 - 130

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

Lab Sample ID: LCS 680-825632/6
Matrix: Water
Analysis Batch: 825632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	50.0	53.67		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	52.57		ug/L		105	70 - 130
Trichloroethene	50.0	50.38		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	90.58	*+	ug/L		181	63 - 142
1,2,3-Trichloropropane	50.0	46.81		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.01		ug/L		106	63 - 141
1,2,4-Trimethylbenzene	50.0	59.56		ug/L		119	70 - 130
Hexane	50.0	59.07		ug/L		118	70 - 130
1,3,5-Trimethylbenzene	50.0	59.79		ug/L		120	70 - 130
n-Heptane	50.0	55.20		ug/L		110	65 - 120
Vinyl acetate	100	77.22		ug/L		77	67 - 135
Vinyl chloride	50.0	74.44	*+	ug/L		149	66 - 129
Xylenes, Total	100	106.8		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-825632/7
Matrix: Water
Analysis Batch: 825632

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
Acetone	250	215.1		ug/L		86	67 - 120	5	30
Benzene	50.0	52.02		ug/L		104	70 - 130	0	30
Bromobenzene	50.0	57.85		ug/L		116	70 - 130	0	30
Bromoform	50.0	41.99		ug/L		84	69 - 129	3	30
Bromomethane	50.0	59.74		ug/L		119	28 - 192	3	30
2-Butanone (MEK)	250	200.6		ug/L		80	69 - 120	5	30
Chlorobromomethane	50.0	53.95		ug/L		108	70 - 130	4	30
Carbon disulfide	50.0	57.68		ug/L		115	70 - 130	2	30
Carbon tetrachloride	50.0	40.34		ug/L		81	70 - 130	1	30
Chlorobenzene	50.0	52.92		ug/L		106	70 - 130	1	30
Chloroethane	50.0	71.26		ug/L		143	31 - 213	2	30
Chloroform	50.0	47.94		ug/L		96	70 - 130	1	30
Chloromethane	50.0	66.25	*+	ug/L		132	59 - 127	0	30
2-Chlorotoluene	50.0	58.40		ug/L		117	70 - 130	1	30
4-Chlorotoluene	50.0	58.36		ug/L		117	70 - 130	2	30
Chlorodibromomethane	50.0	45.72		ug/L		91	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	33.51	*-	ug/L		67	70 - 130	6	30
Dibromomethane	50.0	50.14		ug/L		100	70 - 130	2	30
1,2-Dichlorobenzene	50.0	51.91		ug/L		104	70 - 130	2	30
1,3-Dichlorobenzene	50.0	54.93		ug/L		110	70 - 130	0	30
1,4-Dichlorobenzene	50.0	54.78		ug/L		110	70 - 130	1	30
Dichlorobromomethane	50.0	46.44		ug/L		93	70 - 130	1	30
Dichlorodifluoromethane	50.0	71.76	*+	ug/L		144	70 - 130	24	40

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

Lab Sample ID: LCSD 680-825632/7
Matrix: Water
Analysis Batch: 825632

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-Dichloroethane			50.0	52.63		ug/L		105	70 - 130	0	30
1,2-Dichloroethane			50.0	46.39		ug/L		93	70 - 130	3	50
cis-1,2-Dichloroethene			50.0	50.57		ug/L		101	70 - 130	0	30
1,1-Dichloroethene			50.0	54.65		ug/L		109	70 - 130	3	20
1,2-Dichloropropane			50.0	51.75		ug/L		104	70 - 130	1	20
1,3-Dichloropropane			50.0	54.03		ug/L		108	70 - 130	2	20
2,2-Dichloropropane			50.0	48.02		ug/L		96	70 - 130	1	20
1,1-Dichloropropene			50.0	52.96		ug/L		106	70 - 130	1	20
cis-1,3-Dichloropropene			50.0	50.49		ug/L		101	70 - 130	2	20
Ethylene Dibromide			50.0	54.34		ug/L		109	70 - 130	2	30
Ethylbenzene			50.0	52.21		ug/L		104	70 - 130	1	20
Hexachlorobutadiene			50.0	48.98		ug/L		98	70 - 130	0	20
2-Hexanone			250	215.5		ug/L		86	70 - 130	5	20
Iodomethane			50.0	46.62		ug/L		93	52 - 129	2	30
Isopropylbenzene			50.0	58.43		ug/L		117	70 - 130	0	30
4-Isopropyltoluene			50.0	57.32		ug/L		115	70 - 130	1	30
Methylene Chloride			50.0	50.47		ug/L		101	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)			250	231.0		ug/L		92	68 - 120	5	30
Methyl tert-butyl ether			50.0	45.51		ug/L		91	70 - 130	2	30
Naphthalene			50.0	47.19		ug/L		94	57 - 149	4	30
n-Butylbenzene			50.0	56.91		ug/L		114	70 - 130	0	30
N-Propylbenzene			50.0	57.04		ug/L		114	70 - 130	1	30
sec-Butylbenzene			50.0	55.91		ug/L		112	70 - 130	1	30
Styrene			50.0	58.65		ug/L		117	70 - 130	0	30
tert-Butylbenzene			50.0	55.17		ug/L		110	70 - 130	1	30
1,1,1,2-Tetrachloroethane			50.0	45.48		ug/L		91	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	48.63		ug/L		97	70 - 130	3	30
Tetrachloroethene			50.0	49.13		ug/L		98	70 - 130	1	30
Toluene			50.0	50.96		ug/L		102	70 - 130	1	30
trans-1,4-Dichloro-2-butene			50.0	38.51		ug/L		77	67 - 120	1	30
trans-1,2-Dichloroethene			50.0	52.51		ug/L		105	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.51		ug/L		101	70 - 130	2	30
1,2,3-Trichlorobenzene			50.0	48.66		ug/L		97	61 - 141	3	30
1,2,4-Trichlorobenzene			50.0	51.56		ug/L		103	70 - 130	2	30
1,1,1-Trichloroethane			50.0	44.64		ug/L		89	70 - 130	1	30
o-Xylene			50.0	54.35		ug/L		109	70 - 130	0	30
1,1,2-Trichloroethane			50.0	54.38		ug/L		109	70 - 130	1	30
m-Xylene & p-Xylene			50.0	53.41		ug/L		107	70 - 130	2	30
Trichloroethene			50.0	50.36		ug/L		101	70 - 130	0	30
Trichlorofluoromethane			50.0	88.64	*+	ug/L		177	63 - 142	2	30
1,2,3-Trichloropropane			50.0	48.22		ug/L		96	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.67		ug/L		105	63 - 141	1	30
1,2,4-Trimethylbenzene			50.0	59.16		ug/L		118	70 - 130	1	30
Hexane			50.0	57.49		ug/L		115	70 - 130	3	30
1,3,5-Trimethylbenzene			50.0	59.93		ug/L		120	70 - 130	0	30
n-Heptane			50.0	55.06		ug/L		110	65 - 120	0	30
Vinyl acetate			100	75.60		ug/L		76	67 - 135	2	30
Vinyl chloride			50.0	74.44	*+	ug/L		149	66 - 129	0	30

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

Lab Sample ID: LCSD 680-825632/7
Matrix: Water
Analysis Batch: 825632

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
Xylenes, Total			100	107.8		ug/L		108	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/06/24 13:50	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/06/24 13:50	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/06/24 13:50	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/06/24 13:50	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/06/24 13:50	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/06/24 13:50	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/06/24 13:50	1

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

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/06/24 13:50	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/06/24 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/06/24 13:50	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/06/24 13:50	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/06/24 13:50	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/06/24 13:50	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/06/24 13:50	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/06/24 13:50	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/06/24 13:50	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/06/24 13:50	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/06/24 13:50	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/06/24 13:50	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/06/24 13:50	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/06/24 13:50	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/06/24 13:50	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/06/24 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*		*03/06/24 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*		*03/06/24 13:50*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*		*03/06/24 13:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*		*03/06/24 13:50*	*1*

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

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2411		mg/Kg		96	10 - 150
Benzene	0.0500	0.05189		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.05372		mg/Kg		107	70 - 130
Bromoform	0.0500	0.04865		mg/Kg		97	68 - 130
Bromomethane	0.0500	0.06027		mg/Kg		121	70 - 130
2-Butanone (MEK)	0.250	0.2437		mg/Kg		97	40 - 150
Chlorobromomethane	0.0500	0.05276		mg/Kg		106	66 - 130
Carbon disulfide	0.0500	0.05098		mg/Kg		102	70 - 130
Carbon tetrachloride	0.0500	0.05391		mg/Kg		108	70 - 130
Chlorobenzene	0.0500	0.05165		mg/Kg		103	70 - 130
Chloroethane	0.0500	0.04350		mg/Kg		87	70 - 130
Chloroform	0.0500	0.05366		mg/Kg		107	70 - 130
Chloromethane	0.0500	0.05002		mg/Kg		100	70 - 130
2-Chlorotoluene	0.0500	0.05413		mg/Kg		108	70 - 130
4-Chlorotoluene	0.0500	0.05466		mg/Kg		109	70 - 130
Chlorodibromomethane	0.0500	0.05211		mg/Kg		104	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04645		mg/Kg		93	42 - 145
Dibromomethane	0.0500	0.05248		mg/Kg		105	59 - 142
1,2-Dichlorobenzene	0.0500	0.04969		mg/Kg		99	70 - 130
1,3-Dichlorobenzene	0.0500	0.05252		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0500	0.05285		mg/Kg		106	70 - 130
Dichlorobromomethane	0.0500	0.05473		mg/Kg		109	70 - 130
Dichlorodifluoromethane	0.0500	0.05772		mg/Kg		115	43 - 131
1,1-Dichloroethane	0.0500	0.05200		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0500	0.05344		mg/Kg		107	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05233		mg/Kg		105	70 - 130
1,1-Dichloroethene	0.0500	0.05013		mg/Kg		100	69 - 130
1,2-Dichloropropane	0.0500	0.05043		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0500	0.05186		mg/Kg		104	54 - 150
2,2-Dichloropropane	0.0500	0.05404		mg/Kg		108	70 - 130
1,1-Dichloropropene	0.0500	0.05330		mg/Kg		107	70 - 130
cis-1,3-Dichloropropene	0.0500	0.05243		mg/Kg		105	70 - 130
Ethylene Dibromide	0.0500	0.05240		mg/Kg		105	48 - 150
Ethylbenzene	0.0500	0.05365		mg/Kg		107	70 - 130
Hexachlorobutadiene	0.0500	0.05482		mg/Kg		110	70 - 130
2-Hexanone	0.250	0.2453		mg/Kg		98	30 - 150
Iodomethane	0.0500	0.04999		mg/Kg		100	65 - 138
Isopropylbenzene	0.0500	0.05969		mg/Kg		119	70 - 130
4-Isopropyltoluene	0.0500	0.05668		mg/Kg		113	70 - 130
Methylene Chloride	0.0500	0.05214		mg/Kg		104	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2428		mg/Kg		97	34 - 150
Methyl tert-butyl ether	0.0500	0.05126		mg/Kg		103	70 - 130
Naphthalene	0.0500	0.04713		mg/Kg		94	46 - 150
n-Butylbenzene	0.0500	0.05681		mg/Kg		114	70 - 130
N-Propylbenzene	0.0500	0.05712		mg/Kg		114	70 - 130
sec-Butylbenzene	0.0500	0.05682		mg/Kg		114	69 - 142
Styrene	0.0500	0.05246		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0500	0.05546		mg/Kg		111	67 - 145

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

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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	0.0500	0.04927		mg/Kg		99	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04998		mg/Kg		100	64 - 130
Tetrachloroethene	0.0500	0.05466		mg/Kg		109	70 - 130
Toluene	0.0500	0.05318		mg/Kg		106	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04741		mg/Kg		95	54 - 150
trans-1,2-Dichloroethene	0.0500	0.05150		mg/Kg		103	67 - 130
trans-1,3-Dichloropropene	0.0500	0.05352		mg/Kg		107	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04965		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.05181		mg/Kg		104	70 - 130
1,1,1-Trichloroethane	0.0500	0.05320		mg/Kg		106	70 - 130
o-Xylene	0.0500	0.05493		mg/Kg		110	70 - 130
1,1,2-Trichloroethane	0.0500	0.05127		mg/Kg		103	56 - 146
m-Xylene & p-Xylene	0.0500	0.05365		mg/Kg		107	70 - 130
Trichloroethene	0.0500	0.05164		mg/Kg		103	70 - 130
Trichlorofluoromethane	0.0500	0.05123		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	0.0500	0.04834		mg/Kg		97	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05072		mg/Kg		101	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05713		mg/Kg		114	70 - 130
Hexane	0.0500	0.05317		mg/Kg		106	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05688		mg/Kg		114	70 - 130
n-Heptane	0.0500	0.05058		mg/Kg		101	70 - 130
Vinyl acetate	0.100	0.1491		mg/Kg		149	53 - 150
Vinyl chloride	0.0500	0.04883		mg/Kg		98	70 - 130
Xylenes, Total	0.100	0.1086		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 130*
Dibromofluoromethane (Surr)	*108*		*65 - 130*
4-Bromofluorobenzene (Surr)	*95*		*65 - 130*

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
Acetone	0.250	0.2236		mg/Kg		89	10 - 150	8	50
Benzene	0.0500	0.04745		mg/Kg		95	70 - 130	9	30
Bromobenzene	0.0500	0.04801		mg/Kg		96	70 - 130	11	30
Bromoform	0.0500	0.04518		mg/Kg		90	68 - 130	7	30
Bromomethane	0.0500	0.06152		mg/Kg		123	70 - 130	2	30
2-Butanone (MEK)	0.250	0.2237		mg/Kg		89	40 - 150	9	30
Chlorobromomethane	0.0500	0.04725		mg/Kg		95	66 - 130	11	30
Carbon disulfide	0.0500	0.04905		mg/Kg		98	70 - 130	4	30
Carbon tetrachloride	0.0500	0.05007		mg/Kg		100	70 - 130	7	30
Chlorobenzene	0.0500	0.04741		mg/Kg		95	70 - 130	9	30
Chloroethane	0.0500	0.04036		mg/Kg		81	70 - 130	7	30
Chloroform	0.0500	0.04787		mg/Kg		96	70 - 130	11	30

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

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

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
Chloromethane			0.0500	0.04922		mg/Kg		98	70 - 130	2	30
2-Chlorotoluene			0.0500	0.04930		mg/Kg		99	70 - 130	9	30
4-Chlorotoluene			0.0500	0.04905		mg/Kg		98	70 - 130	11	30
Chlorodibromomethane			0.0500	0.04736		mg/Kg		95	64 - 133	10	30
1,2-Dibromo-3-Chloropropane			0.0500	0.04433		mg/Kg		89	42 - 145	5	30
Dibromomethane			0.0500	0.04743		mg/Kg		95	59 - 142	10	30
1,2-Dichlorobenzene			0.0500	0.04637		mg/Kg		93	70 - 130	7	30
1,3-Dichlorobenzene			0.0500	0.04841		mg/Kg		97	70 - 130	8	30
1,4-Dichlorobenzene			0.0500	0.04831		mg/Kg		97	70 - 130	9	30
Dichlorobromomethane			0.0500	0.04962		mg/Kg		99	70 - 130	10	30
Dichlorodifluoromethane			0.0500	0.05668		mg/Kg		113	43 - 131	2	30
1,1-Dichloroethane			0.0500	0.04718		mg/Kg		94	70 - 130	10	30
1,2-Dichloroethane			0.0500	0.04908		mg/Kg		98	68 - 139	8	30
cis-1,2-Dichloroethene			0.0500	0.04801		mg/Kg		96	70 - 130	9	30
1,1-Dichloroethene			0.0500	0.04356		mg/Kg		87	69 - 130	14	50
1,2-Dichloropropane			0.0500	0.04655		mg/Kg		93	70 - 130	8	30
1,3-Dichloropropane			0.0500	0.04663		mg/Kg		93	54 - 150	11	30
2,2-Dichloropropane			0.0500	0.04915		mg/Kg		98	70 - 130	9	30
1,1-Dichloropropene			0.0500	0.04867		mg/Kg		97	70 - 130	9	30
cis-1,3-Dichloropropene			0.0500	0.04779		mg/Kg		96	70 - 130	9	30
Ethylene Dibromide			0.0500	0.04776		mg/Kg		96	48 - 150	9	30
Ethylbenzene			0.0500	0.04873		mg/Kg		97	70 - 130	10	30
Hexachlorobutadiene			0.0500	0.04908		mg/Kg		98	70 - 130	11	30
2-Hexanone			0.250	0.2217		mg/Kg		89	30 - 150	10	30
Iodomethane			0.0500	0.05106		mg/Kg		102	65 - 138	2	30
Isopropylbenzene			0.0500	0.05491		mg/Kg		110	70 - 130	8	30
4-Isopropyltoluene			0.0500	0.05194		mg/Kg		104	70 - 130	9	30
Methylene Chloride			0.0500	0.04710		mg/Kg		94	54 - 149	10	30
4-Methyl-2-pentanone (MIBK)			0.250	0.2208		mg/Kg		88	34 - 150	9	30
Methyl tert-butyl ether			0.0500	0.04613		mg/Kg		92	70 - 130	11	30
Naphthalene			0.0500	0.04339		mg/Kg		87	46 - 150	8	30
n-Butylbenzene			0.0500	0.05183		mg/Kg		104	70 - 130	9	30
N-Propylbenzene			0.0500	0.05139		mg/Kg		103	70 - 130	11	30
sec-Butylbenzene			0.0500	0.05143		mg/Kg		103	69 - 142	10	30
Styrene			0.0500	0.04798		mg/Kg		96	70 - 130	9	30
tert-Butylbenzene			0.0500	0.05037		mg/Kg		101	67 - 145	10	30
1,1,1,2-Tetrachloroethane			0.0500	0.04523		mg/Kg		90	70 - 130	9	30
1,1,2,2-Tetrachloroethane			0.0500	0.04622		mg/Kg		92	64 - 130	8	30
Tetrachloroethene			0.0500	0.04983		mg/Kg		100	70 - 130	9	30
Toluene			0.0500	0.04831		mg/Kg		97	70 - 130	10	30
trans-1,4-Dichloro-2-butene			0.0500	0.04431		mg/Kg		89	54 - 150	7	30
trans-1,2-Dichloroethene			0.0500	0.04847		mg/Kg		97	67 - 130	6	30
trans-1,3-Dichloropropene			0.0500	0.04813		mg/Kg		96	54 - 150	11	30
1,2,3-Trichlorobenzene			0.0500	0.04510		mg/Kg		90	70 - 130	10	30
1,2,4-Trichlorobenzene			0.0500	0.04654		mg/Kg		93	70 - 130	11	30
1,1,1-Trichloroethane			0.0500	0.04948		mg/Kg		99	70 - 130	7	30
o-Xylene			0.0500	0.05016		mg/Kg		100	70 - 130	9	30
1,1,2-Trichloroethane			0.0500	0.04645		mg/Kg		93	56 - 146	10	30
m-Xylene & p-Xylene			0.0500	0.04863		mg/Kg		97	70 - 130	10	30

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

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
Trichloroethene			0.0500	0.04795		mg/Kg		96	70 - 130	7	30
Trichlorofluoromethane			0.0500	0.05326		mg/Kg		107	70 - 130	4	30
1,2,3-Trichloropropane			0.0500	0.04418		mg/Kg		88	64 - 130	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05030		mg/Kg		101	70 - 130	1	40
1,2,4-Trimethylbenzene			0.0500	0.05133		mg/Kg		103	70 - 130	11	30
Hexane			0.0500	0.04928		mg/Kg		99	70 - 130	8	30
1,3,5-Trimethylbenzene			0.0500	0.05137		mg/Kg		103	70 - 130	10	30
n-Heptane			0.0500	0.04746		mg/Kg		95	70 - 130	6	30
Vinyl acetate			0.100	0.1363		mg/Kg		136	53 - 150	9	30
Vinyl chloride			0.0500	0.04945		mg/Kg		99	70 - 130	1	30
Xylenes, Total			0.100	0.09879		mg/Kg		99	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 130*
Dibromofluoromethane (Surr)	*99*		*65 - 130*
4-Bromofluorobenzene (Surr)	*89*		*65 - 130*

Lab Sample ID: MB 680-826213/9
Matrix: Solid
Analysis Batch: 826213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.01795	J	0.0500	0.0110	mg/Kg			03/07/24 11:45	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/07/24 11:45	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/07/24 11:45	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/07/24 11:45	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/07/24 11:45	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1

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

Lab Sample ID: MB 680-826213/9
Matrix: Solid
Analysis Batch: 826213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/07/24 11:45	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/07/24 11:45	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/07/24 11:45	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/07/24 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/07/24 11:45	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Naphthalene	0.003843	J	0.00500	0.00310	mg/Kg			03/07/24 11:45	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:45	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:45	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/07/24 11:45	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/07/24 11:45	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/07/24 11:45	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:45	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/07/24 11:45	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/07/24 11:45	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/07/24 11:45	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/07/24 11:45	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/07/24 11:45	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/07/24 11:45	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	128		65 - 130		03/07/24 11:45	1
1,2-Dichloroethane-d4 (Surr)	95		65 - 130		03/07/24 11:45	1
Dibromofluoromethane (Surr)	112		65 - 130		03/07/24 11:45	1
4-Bromofluorobenzene (Surr)	110		65 - 130		03/07/24 11:45	1

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2235		mg/Kg		89	10 - 150
Benzene	0.0500	0.05191		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.04992		mg/Kg		100	70 - 130
Bromoform	0.0500	0.04289		mg/Kg		86	68 - 130
Bromomethane	0.0500	0.07725		mg/Kg		154	70 - 130
2-Butanone (MEK)	0.250	0.2576		mg/Kg		103	40 - 150
Chlorobromomethane	0.0500	0.05675		mg/Kg		114	66 - 130
Carbon disulfide	0.0500	0.05834		mg/Kg		117	70 - 130
Carbon tetrachloride	0.0500	0.05172		mg/Kg		103	70 - 130
Chlorobenzene	0.0500	0.04984		mg/Kg		100	70 - 130
Chloroethane	0.0500	0.05826		mg/Kg		117	70 - 130
Chloroform	0.0500	0.05039		mg/Kg		101	70 - 130
Chloromethane	0.0500	0.05190		mg/Kg		104	70 - 130
2-Chlorotoluene	0.0500	0.05130		mg/Kg		103	70 - 130
4-Chlorotoluene	0.0500	0.05140		mg/Kg		103	70 - 130
Chlorodibromomethane	0.0500	0.04766		mg/Kg		95	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04144		mg/Kg		83	42 - 145
Dibromomethane	0.0500	0.05088		mg/Kg		102	59 - 142
1,2-Dichlorobenzene	0.0500	0.04967		mg/Kg		99	70 - 130
1,3-Dichlorobenzene	0.0500	0.05147		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0500	0.05095		mg/Kg		102	70 - 130
Dichlorobromomethane	0.0500	0.05175		mg/Kg		104	70 - 130
Dichlorodifluoromethane	0.0500	0.06134		mg/Kg		123	43 - 131
1,1-Dichloroethane	0.0500	0.05363		mg/Kg		107	70 - 130
1,2-Dichloroethane	0.0500	0.05242		mg/Kg		105	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05158		mg/Kg		103	70 - 130
1,1-Dichloroethene	0.0500	0.05414		mg/Kg		108	69 - 130
1,2-Dichloropropane	0.0500	0.04935		mg/Kg		99	70 - 130
1,3-Dichloropropane	0.0500	0.04992		mg/Kg		100	54 - 150
2,2-Dichloropropane	0.0500	0.05300		mg/Kg		106	70 - 130
1,1-Dichloropropene	0.0500	0.04800		mg/Kg		96	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04940		mg/Kg		99	70 - 130
Ethylene Dibromide	0.0500	0.04819		mg/Kg		96	48 - 150
Ethylbenzene	0.0500	0.05164		mg/Kg		103	70 - 130
Hexachlorobutadiene	0.0500	0.05004		mg/Kg		100	70 - 130
2-Hexanone	0.250	0.2667		mg/Kg		107	30 - 150
Iodomethane	0.0500	0.05827		mg/Kg		117	65 - 138
Isopropylbenzene	0.0500	0.05642		mg/Kg		113	70 - 130
4-Isopropyltoluene	0.0500	0.05403		mg/Kg		108	70 - 130
Methylene Chloride	0.0500	0.05477		mg/Kg		110	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2656		mg/Kg		106	34 - 150

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

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl tert-butyl ether			0.0500	0.04900		mg/Kg		98	70 - 130		
Naphthalene			0.0500	0.04190		mg/Kg		84	46 - 150		
n-Butylbenzene			0.0500	0.05524		mg/Kg		110	70 - 130		
N-Propylbenzene			0.0500	0.05382		mg/Kg		108	70 - 130		
sec-Butylbenzene			0.0500	0.05491		mg/Kg		110	69 - 142		
Styrene			0.0500	0.05111		mg/Kg		102	70 - 130		
tert-Butylbenzene			0.0500	0.05310		mg/Kg		106	67 - 145		
1,1,1,2-Tetrachloroethane			0.0500	0.04437		mg/Kg		89	70 - 130		
1,1,2,2-Tetrachloroethane			0.0500	0.04623		mg/Kg		92	64 - 130		
Tetrachloroethene			0.0500	0.05279		mg/Kg		106	70 - 130		
Toluene			0.0500	0.05485		mg/Kg		110	70 - 130		
trans-1,4-Dichloro-2-butene			0.0500	0.04543		mg/Kg		91	54 - 150		
trans-1,2-Dichloroethene			0.0500	0.04804		mg/Kg		96	67 - 130		
trans-1,3-Dichloropropene			0.0500	0.05087		mg/Kg		102	54 - 150		
1,2,3-Trichlorobenzene			0.0500	0.04661		mg/Kg		93	70 - 130		
1,2,4-Trichlorobenzene			0.0500	0.04743		mg/Kg		95	70 - 130		
1,1,1-Trichloroethane			0.0500	0.05364		mg/Kg		107	70 - 130		
o-Xylene			0.0500	0.05278		mg/Kg		106	70 - 130		
1,1,2-Trichloroethane			0.0500	0.04926		mg/Kg		99	56 - 146		
m-Xylene & p-Xylene			0.0500	0.05181		mg/Kg		104	70 - 130		
Trichloroethene			0.0500	0.04633		mg/Kg		93	70 - 130		
Trichlorofluoromethane			0.0500	0.05322		mg/Kg		106	70 - 130		
1,2,3-Trichloropropane			0.0500	0.04452		mg/Kg		89	64 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05268		mg/Kg		105	70 - 130		
1,2,4-Trimethylbenzene			0.0500	0.05525		mg/Kg		111	70 - 130		
Hexane			0.0500	0.05142		mg/Kg		103	70 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05360		mg/Kg		107	70 - 130		
n-Heptane			0.0500	0.05290		mg/Kg		106	70 - 130		
Vinyl acetate			0.100	0.1083		mg/Kg		108	53 - 150		
Vinyl chloride			0.0500	0.05632		mg/Kg		113	70 - 130		
Xylenes, Total			0.100	0.1046		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*
Dibromofluoromethane (Surr)	*102*		*65 - 130*
4-Bromofluorobenzene (Surr)	*99*		*65 - 130*

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
Acetone			0.250	0.2344		mg/Kg		94	10 - 150	5	50
Benzene			0.0500	0.05091		mg/Kg		102	70 - 130	2	30
Bromobenzene			0.0500	0.05042		mg/Kg		101	70 - 130	1	30
Bromoform			0.0500	0.04310		mg/Kg		86	68 - 130	0	30
Bromomethane			0.0500	0.09022		mg/Kg		180	70 - 130	15	30

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

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
2-Butanone (MEK)	0.250	0.2577		mg/Kg		103	40 - 150	0	30
Chlorobromomethane	0.0500	0.06522		mg/Kg		130	66 - 130	14	30
Carbon disulfide	0.0500	0.05784		mg/Kg		116	70 - 130	1	30
Carbon tetrachloride	0.0500	0.05187		mg/Kg		104	70 - 130	0	30
Chlorobenzene	0.0500	0.04874		mg/Kg		97	70 - 130	2	30
Chloroethane	0.0500	0.07422		mg/Kg		148	70 - 130	24	30
Chloroform	0.0500	0.04917		mg/Kg		98	70 - 130	2	30
Chloromethane	0.0500	0.06173		mg/Kg		123	70 - 130	17	30
2-Chlorotoluene	0.0500	0.05037		mg/Kg		101	70 - 130	2	30
4-Chlorotoluene	0.0500	0.04994		mg/Kg		100	70 - 130	3	30
Chlorodibromomethane	0.0500	0.04752		mg/Kg		95	64 - 133	0	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04136		mg/Kg		83	42 - 145	0	30
Dibromomethane	0.0500	0.05009		mg/Kg		100	59 - 142	2	30
1,2-Dichlorobenzene	0.0500	0.04834		mg/Kg		97	70 - 130	3	30
1,3-Dichlorobenzene	0.0500	0.04876		mg/Kg		98	70 - 130	5	30
1,4-Dichlorobenzene	0.0500	0.04999		mg/Kg		100	70 - 130	2	30
Dichlorobromomethane	0.0500	0.05087		mg/Kg		102	70 - 130	2	30
Dichlorodifluoromethane	0.0500	0.07027		mg/Kg		141	43 - 131	14	30
1,1-Dichloroethane	0.0500	0.05218		mg/Kg		104	70 - 130	3	30
1,2-Dichloroethane	0.0500	0.05091		mg/Kg		102	68 - 139	3	30
cis-1,2-Dichloroethene	0.0500	0.05137		mg/Kg		103	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.05005		mg/Kg		100	69 - 130	8	50
1,2-Dichloropropane	0.0500	0.04849		mg/Kg		97	70 - 130	2	30
1,3-Dichloropropane	0.0500	0.04850		mg/Kg		97	54 - 150	3	30
2,2-Dichloropropane	0.0500	0.05143		mg/Kg		103	70 - 130	3	30
1,1-Dichloropropene	0.0500	0.04753		mg/Kg		95	70 - 130	1	30
cis-1,3-Dichloropropene	0.0500	0.04783		mg/Kg		96	70 - 130	3	30
Ethylene Dibromide	0.0500	0.04770		mg/Kg		95	48 - 150	1	30
Ethylbenzene	0.0500	0.05001		mg/Kg		100	70 - 130	3	30
Hexachlorobutadiene	0.0500	0.04785		mg/Kg		96	70 - 130	4	30
2-Hexanone	0.250	0.2613		mg/Kg		105	30 - 150	2	30
Iodomethane	0.0500	0.05952		mg/Kg		119	65 - 138	2	30
Isopropylbenzene	0.0500	0.05485		mg/Kg		110	70 - 130	3	30
4-Isopropyltoluene	0.0500	0.05046		mg/Kg		101	70 - 130	7	30
Methylene Chloride	0.0500	0.05525		mg/Kg		111	54 - 149	1	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2636		mg/Kg		105	34 - 150	1	30
Methyl tert-butyl ether	0.0500	0.04796		mg/Kg		96	70 - 130	2	30
Naphthalene	0.0500	0.04136		mg/Kg		83	46 - 150	1	30
n-Butylbenzene	0.0500	0.05027		mg/Kg		101	70 - 130	9	30
N-Propylbenzene	0.0500	0.05218		mg/Kg		104	70 - 130	3	30
sec-Butylbenzene	0.0500	0.05211		mg/Kg		104	69 - 142	5	30
Styrene	0.0500	0.04973		mg/Kg		99	70 - 130	3	30
tert-Butylbenzene	0.0500	0.05140		mg/Kg		103	67 - 145	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.04417		mg/Kg		88	70 - 130	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.04532		mg/Kg		91	64 - 130	2	30
Tetrachloroethene	0.0500	0.05285		mg/Kg		106	70 - 130	0	30
Toluene	0.0500	0.05343		mg/Kg		107	70 - 130	3	30
trans-1,4-Dichloro-2-butene	0.0500	0.04570		mg/Kg		91	54 - 150	1	30
trans-1,2-Dichloroethene	0.0500	0.04619		mg/Kg		92	67 - 130	4	30

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

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
trans-1,3-Dichloropropene			0.0500	0.04936		mg/Kg		99	54 - 150	3	30
1,2,3-Trichlorobenzene			0.0500	0.04571		mg/Kg		91	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0500	0.04694		mg/Kg		94	70 - 130	1	30
1,1,1-Trichloroethane			0.0500	0.05289		mg/Kg		106	70 - 130	1	30
o-Xylene			0.0500	0.05050		mg/Kg		101	70 - 130	4	30
1,1,2-Trichloroethane			0.0500	0.04851		mg/Kg		97	56 - 146	2	30
m-Xylene & p-Xylene			0.0500	0.05058		mg/Kg		101	70 - 130	2	30
Trichloroethene			0.0500	0.04680		mg/Kg		94	70 - 130	1	30
Trichlorofluoromethane			0.0500	0.06041		mg/Kg		121	70 - 130	13	30
1,2,3-Trichloropropane			0.0500	0.04597		mg/Kg		92	64 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05298		mg/Kg		106	70 - 130	1	40
1,2,4-Trimethylbenzene			0.0500	0.05276		mg/Kg		106	70 - 130	5	30
Hexane			0.0500	0.05095		mg/Kg		102	70 - 130	1	30
1,3,5-Trimethylbenzene			0.0500	0.05161		mg/Kg		103	70 - 130	4	30
n-Heptane			0.0500	0.05099		mg/Kg		102	70 - 130	4	30
Vinyl acetate			0.100	0.1051		mg/Kg		105	53 - 150	3	30
Vinyl chloride			0.0500	0.06333		mg/Kg		127	70 - 130	12	30
Xylenes, Total			0.100	0.1011		mg/Kg		101	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 130*
Dibromofluoromethane (Surr)	*100*		*65 - 130*
4-Bromofluorobenzene (Surr)	*93*		*65 - 130*

Lab Sample ID: MB 680-826220/9
Matrix: Solid
Analysis Batch: 826220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/07/24 11:40	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/07/24 11:40	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/07/24 11:40	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/07/24 11:40	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1

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

Lab Sample ID: MB 680-826220/9
Matrix: Solid
Analysis Batch: 826220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:40	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/07/24 11:40	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:40	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:40	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/07/24 11:40	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/07/24 11:40	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/07/24 11:40	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/07/24 11:40	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/07/24 11:40	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:40	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:40	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:40	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:40	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/07/24 11:40	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/07/24 11:40	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:40	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/07/24 11:40	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:40	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:40	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:40	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/07/24 11:40	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:40	1

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

Lab Sample ID: MB 680-826220/9
Matrix: Solid
Analysis Batch: 826220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/07/24 11:40	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/07/24 11:40	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/07/24 11:40	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/07/24 11:40	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/07/24 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*65 - 130*		*03/07/24 11:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*		*03/07/24 11:40*	*1*
Dibromofluoromethane (Surr)	*113*		*65 - 130*		*03/07/24 11:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*		*03/07/24 11:40*	*1*

Lab Sample ID: LCS 680-826220/5
Matrix: Solid
Analysis Batch: 826220

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2143		mg/Kg		86	10 - 150
Benzene	0.0500	0.04712		mg/Kg		94	70 - 130
Bromobenzene	0.0500	0.04821		mg/Kg		96	70 - 130
Bromoform	0.0500	0.04329		mg/Kg		87	68 - 130
Bromomethane	0.0500	0.05797		mg/Kg		116	70 - 130
2-Butanone (MEK)	0.250	0.2176		mg/Kg		87	40 - 150
Chlorobromomethane	0.0500	0.04779		mg/Kg		96	66 - 130
Carbon disulfide	0.0500	0.04801		mg/Kg		96	70 - 130
Carbon tetrachloride	0.0500	0.04839		mg/Kg		97	70 - 130
Chlorobenzene	0.0500	0.04793		mg/Kg		96	70 - 130
Chloroethane	0.0500	0.03967		mg/Kg		79	70 - 130
Chloroform	0.0500	0.04715		mg/Kg		94	70 - 130
Chloromethane	0.0500	0.04905		mg/Kg		98	70 - 130
2-Chlorotoluene	0.0500	0.04948		mg/Kg		99	70 - 130
4-Chlorotoluene	0.0500	0.05027		mg/Kg		101	70 - 130
Chlorodibromomethane	0.0500	0.04608		mg/Kg		92	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04239		mg/Kg		85	42 - 145
Dibromomethane	0.0500	0.04716		mg/Kg		94	59 - 142
1,2-Dichlorobenzene	0.0500	0.04668		mg/Kg		93	70 - 130
1,3-Dichlorobenzene	0.0500	0.04815		mg/Kg		96	70 - 130
1,4-Dichlorobenzene	0.0500	0.04934		mg/Kg		99	70 - 130
Dichlorobromomethane	0.0500	0.04917		mg/Kg		98	70 - 130
Dichlorodifluoromethane	0.0500	0.05381		mg/Kg		108	43 - 131
1,1-Dichloroethane	0.0500	0.04633		mg/Kg		93	70 - 130
1,2-Dichloroethane	0.0500	0.04815		mg/Kg		96	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04715		mg/Kg		94	70 - 130
1,1-Dichloroethene	0.0500	0.04497		mg/Kg		90	69 - 130
1,2-Dichloropropane	0.0500	0.04525		mg/Kg		91	70 - 130
1,3-Dichloropropane	0.0500	0.04694		mg/Kg		94	54 - 150

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

Lab Sample ID: LCS 680-826220/5
Matrix: Solid
Analysis Batch: 826220

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	0.0500	0.04870		mg/Kg		97	70 - 130
1,1-Dichloropropene	0.0500	0.04778		mg/Kg		96	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04639		mg/Kg		93	70 - 130
Ethylene Dibromide	0.0500	0.04641		mg/Kg		93	48 - 150
Ethylbenzene	0.0500	0.04861		mg/Kg		97	70 - 130
Hexachlorobutadiene	0.0500	0.05222		mg/Kg		104	70 - 130
2-Hexanone	0.250	0.2151		mg/Kg		86	30 - 150
Iodomethane	0.0500	0.05169		mg/Kg		103	65 - 138
Isopropylbenzene	0.0500	0.05468		mg/Kg		109	70 - 130
4-Isopropyltoluene	0.0500	0.05270		mg/Kg		105	70 - 130
Methylene Chloride	0.0500	0.04611		mg/Kg		92	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2138		mg/Kg		86	34 - 150
Methyl tert-butyl ether	0.0500	0.04593		mg/Kg		92	70 - 130
Naphthalene	0.0500	0.04255		mg/Kg		85	46 - 150
n-Butylbenzene	0.0500	0.05405		mg/Kg		108	70 - 130
N-Propylbenzene	0.0500	0.05270		mg/Kg		105	70 - 130
sec-Butylbenzene	0.0500	0.05289		mg/Kg		106	69 - 142
Styrene	0.0500	0.04848		mg/Kg		97	70 - 130
tert-Butylbenzene	0.0500	0.05112		mg/Kg		102	67 - 145
1,1,1,2-Tetrachloroethane	0.0500	0.04515		mg/Kg		90	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04361		mg/Kg		87	64 - 130
Tetrachloroethene	0.0500	0.05055		mg/Kg		101	70 - 130
Toluene	0.0500	0.04876		mg/Kg		98	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04313		mg/Kg		86	54 - 150
trans-1,2-Dichloroethene	0.0500	0.04396		mg/Kg		88	67 - 130
trans-1,3-Dichloropropene	0.0500	0.04815		mg/Kg		96	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04529		mg/Kg		91	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04691		mg/Kg		94	70 - 130
1,1,1-Trichloroethane	0.0500	0.04875		mg/Kg		97	70 - 130
o-Xylene	0.0500	0.04968		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0500	0.04671		mg/Kg		93	56 - 146
m-Xylene & p-Xylene	0.0500	0.04891		mg/Kg		98	70 - 130
Trichloroethene	0.0500	0.04745		mg/Kg		95	70 - 130
Trichlorofluoromethane	0.0500	0.04977		mg/Kg		100	70 - 130
1,2,3-Trichloropropane	0.0500	0.04348		mg/Kg		87	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.04990		mg/Kg		100	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05276		mg/Kg		106	70 - 130
Hexane	0.0500	0.04782		mg/Kg		96	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05310		mg/Kg		106	70 - 130
n-Heptane	0.0500	0.04563		mg/Kg		91	70 - 130
Vinyl acetate	0.100	0.1235		mg/Kg		124	53 - 150
Vinyl chloride	0.0500	0.04772		mg/Kg		95	70 - 130
Xylenes, Total	0.100	0.09859		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 130*

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

Lab Sample ID: LCS 680-826220/5
Matrix: Solid
Analysis Batch: 826220

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 680-826220/6
Matrix: Solid
Analysis Batch: 826220

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
Acetone			0.250	0.2546		mg/Kg		102	10 - 150	17	50
Benzene			0.0500	0.05359		mg/Kg		107	70 - 130	13	30
Bromobenzene			0.0500	0.05491		mg/Kg		110	70 - 130	13	30
Bromoform			0.0500	0.05032		mg/Kg		101	68 - 130	15	30
Bromomethane			0.0500	0.06163		mg/Kg		123	70 - 130	6	30
2-Butanone (MEK)			0.250	0.2487		mg/Kg		99	40 - 150	13	30
Chlorobromomethane			0.0500	0.05355		mg/Kg		107	66 - 130	11	30
Carbon disulfide			0.0500	0.05502		mg/Kg		110	70 - 130	14	30
Carbon tetrachloride			0.0500	0.05632		mg/Kg		113	70 - 130	15	30
Chlorobenzene			0.0500	0.05343		mg/Kg		107	70 - 130	11	30
Chloroethane			0.0500	0.04117		mg/Kg		82	70 - 130	4	30
Chloroform			0.0500	0.05512		mg/Kg		110	70 - 130	16	30
Chloromethane			0.0500	0.04963		mg/Kg		99	70 - 130	1	30
2-Chlorotoluene			0.0500	0.05533		mg/Kg		111	70 - 130	11	30
4-Chlorotoluene			0.0500	0.05561		mg/Kg		111	70 - 130	10	30
Chlorodibromomethane			0.0500	0.05366		mg/Kg		107	64 - 133	15	30
1,2-Dibromo-3-Chloropropane			0.0500	0.04912		mg/Kg		98	42 - 145	15	30
Dibromomethane			0.0500	0.05491		mg/Kg		110	59 - 142	15	30
1,2-Dichlorobenzene			0.0500	0.05216		mg/Kg		104	70 - 130	11	30
1,3-Dichlorobenzene			0.0500	0.05403		mg/Kg		108	70 - 130	12	30
1,4-Dichlorobenzene			0.0500	0.05478		mg/Kg		110	70 - 130	10	30
Dichlorobromomethane			0.0500	0.05637		mg/Kg		113	70 - 130	14	30
Dichlorodifluoromethane			0.0500	0.05364		mg/Kg		107	43 - 131	0	30
1,1-Dichloroethane			0.0500	0.05333		mg/Kg		107	70 - 130	14	30
1,2-Dichloroethane			0.0500	0.05606		mg/Kg		112	68 - 139	15	30
cis-1,2-Dichloroethene			0.0500	0.05391		mg/Kg		108	70 - 130	13	30
1,1-Dichloroethene			0.0500	0.05334		mg/Kg		107	69 - 130	17	50
1,2-Dichloropropane			0.0500	0.05210		mg/Kg		104	70 - 130	14	30
1,3-Dichloropropane			0.0500	0.05366		mg/Kg		107	54 - 150	13	30
2,2-Dichloropropane			0.0500	0.05573		mg/Kg		111	70 - 130	13	30
1,1-Dichloropropene			0.0500	0.05428		mg/Kg		109	70 - 130	13	30
cis-1,3-Dichloropropene			0.0500	0.05341		mg/Kg		107	70 - 130	14	30
Ethylene Dibromide			0.0500	0.05487		mg/Kg		110	48 - 150	17	30
Ethylbenzene			0.0500	0.05532		mg/Kg		111	70 - 130	13	30
Hexachlorobutadiene			0.0500	0.05601		mg/Kg		112	70 - 130	7	30
2-Hexanone			0.250	0.2507		mg/Kg		100	30 - 150	15	30
Iodomethane			0.0500	0.05768		mg/Kg		115	65 - 138	11	30
Isopropylbenzene			0.0500	0.06065		mg/Kg		121	70 - 130	10	30
4-Isopropyltoluene			0.0500	0.05799		mg/Kg		116	70 - 130	10	30
Methylene Chloride			0.0500	0.05370		mg/Kg		107	54 - 149	15	30

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

Lab Sample ID: LCSD 680-826220/6
Matrix: Solid
Analysis Batch: 826220

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
4-Methyl-2-pentanone (MIBK)			0.250	0.2503		mg/Kg		100	34 - 150	16	30
Methyl tert-butyl ether			0.0500	0.05323		mg/Kg		106	70 - 130	15	30
Naphthalene			0.0500	0.04905		mg/Kg		98	46 - 150	14	30
n-Butylbenzene			0.0500	0.05872		mg/Kg		117	70 - 130	8	30
N-Propylbenzene			0.0500	0.05771		mg/Kg		115	70 - 130	9	30
sec-Butylbenzene			0.0500	0.05831		mg/Kg		117	69 - 142	10	30
Styrene			0.0500	0.05467		mg/Kg		109	70 - 130	12	30
tert-Butylbenzene			0.0500	0.05609		mg/Kg		112	67 - 145	9	30
1,1,1,2-Tetrachloroethane			0.0500	0.05252		mg/Kg		105	70 - 130	15	30
1,1,2,2-Tetrachloroethane			0.0500	0.05281		mg/Kg		106	64 - 130	19	30
Tetrachloroethene			0.0500	0.05638		mg/Kg		113	70 - 130	11	30
Toluene			0.0500	0.05534		mg/Kg		111	70 - 130	13	30
trans-1,4-Dichloro-2-butene			0.0500	0.04844		mg/Kg		97	54 - 150	12	30
trans-1,2-Dichloroethene			0.0500	0.05321		mg/Kg		106	67 - 130	19	30
trans-1,3-Dichloropropene			0.0500	0.05585		mg/Kg		112	54 - 150	15	30
1,2,3-Trichlorobenzene			0.0500	0.05188		mg/Kg		104	70 - 130	14	30
1,2,4-Trichlorobenzene			0.0500	0.05338		mg/Kg		107	70 - 130	13	30
1,1,1-Trichloroethane			0.0500	0.05607		mg/Kg		112	70 - 130	14	30
o-Xylene			0.0500	0.05595		mg/Kg		112	70 - 130	12	30
1,1,2-Trichloroethane			0.0500	0.05349		mg/Kg		107	56 - 146	14	30
m-Xylene & p-Xylene			0.0500	0.05462		mg/Kg		109	70 - 130	11	30
Trichloroethene			0.0500	0.05124		mg/Kg		102	70 - 130	8	30
Trichlorofluoromethane			0.0500	0.05125		mg/Kg		103	70 - 130	3	30
1,2,3-Trichloropropane			0.0500	0.04973		mg/Kg		99	64 - 130	13	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05616		mg/Kg		112	70 - 130	12	40
1,2,4-Trimethylbenzene			0.0500	0.05822		mg/Kg		116	70 - 130	10	30
Hexane			0.0500	0.05369		mg/Kg		107	70 - 130	12	30
1,3,5-Trimethylbenzene			0.0500	0.05758		mg/Kg		115	70 - 130	8	30
n-Heptane			0.0500	0.05115		mg/Kg		102	70 - 130	11	30
Vinyl acetate			0.100	0.1667		mg/Kg		167	53 - 150	30	30
Vinyl chloride			0.0500	0.04846		mg/Kg		97	70 - 130	2	30
Xylenes, Total			0.100	0.1106		mg/Kg		111	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*
Dibromofluoromethane (Surr)	*112*		*65 - 130*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*

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

Lab Sample ID: MB 680-825943/20-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0401		0.323	0.0401	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Acenaphthylene	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1

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

Lab Sample ID: MB 680-825943/20-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<0.0274		0.323	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Anthracene	<0.0244		0.323	0.0244	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Atrazine	<0.0225		0.323	0.0225	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzaldehyde	<0.0567		0.323	0.0567	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[a]anthracene	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[a]pyrene	<0.0508		0.323	0.0508	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[b]fluoranthene	<0.0372		0.323	0.0372	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[g,h,i]perylene	<0.0215		0.323	0.0215	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[k]fluoranthene	<0.0636		0.323	0.0636	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Bis(2-chloroethoxy)methane	<0.0381		0.323	0.0381	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Bis(2-chloroethyl)ether	<0.0440		0.323	0.0440	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
bis (2-chloroisopropyl) ether	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Bis(2-ethylhexyl) phthalate	<0.0284		0.323	0.0284	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Bromophenyl phenyl ether	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Butyl benzyl phthalate	<0.0254		0.323	0.0254	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Caprolactam	<0.0645		0.323	0.0645	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Carbazole	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Chloroaniline	<0.0508		0.645	0.0508	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Chloro-3-methylphenol	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Chloronaphthalene	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Chlorophenol	<0.0391		0.323	0.0391	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Chlorophenyl phenyl ether	<0.0430		0.323	0.0430	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Chrysene	<0.0205		0.323	0.0205	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Dibenz(a,h)anthracene	<0.0381		0.323	0.0381	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Dibenzofuran	<0.0323		0.323	0.0323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
3,3'-Dichlorobenzidine	<0.0274		0.645	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dichlorophenol	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Diethyl phthalate	<0.0362		0.323	0.0362	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dimethylphenol	<0.0430		0.323	0.0430	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Dimethyl phthalate	<0.0332		0.323	0.0332	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Di-n-butyl phthalate	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dinitrophenol	<0.812		1.66	0.812	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dinitrotoluene	<0.0479		0.323	0.0479	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,6-Dinitrotoluene	<0.0411		0.323	0.0411	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Di-n-octyl phthalate	<0.0284		0.323	0.0284	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Fluoranthene	<0.0313		0.323	0.0313	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Fluorene	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachlorobenzene	<0.0381		0.323	0.0381	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachlorobutadiene	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachlorocyclopentadiene	<0.0401		0.323	0.0401	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachloroethane	<0.0274		0.323	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Indeno[1,2,3-cd]pyrene	<0.0274		0.323	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Isophorone	<0.0323		0.323	0.0323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Methylnaphthalene	<0.0372		0.323	0.0372	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Methylphenol	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
3 & 4 Methylphenol	<0.0420		0.323	0.0420	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Naphthalene	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1

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

Lab Sample ID: MB 680-825943/20-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.0440		1.66	0.0440	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
3-Nitroaniline	<0.0450		1.66	0.0450	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Nitroaniline	<0.0479		1.66	0.0479	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Nitrobenzene	<0.0254		0.323	0.0254	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Nitrophenol	<0.0401		0.323	0.0401	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Nitrophenol	<0.323		1.66	0.323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
N-Nitrosodi-n-propylamine	<0.0313		0.323	0.0313	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
N-Nitrosodiphenylamine	<0.0323		0.323	0.0323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Pentachlorophenol	<0.323		1.66	0.323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Phenanthrene	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Phenol	<0.0332		0.323	0.0332	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Pyrene	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Pyridine	<0.323		0.645	0.323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4,5-Trichlorophenol	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4,6-Trichlorophenol	<0.0284		0.323	0.0284	mg/Kg		03/05/24 07:30	03/06/24 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
Terphenyl-d14 (Surr)	*80*		*31 - 133*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*21 - 132*	*03/05/24 07:30*	*03/06/24 13:25*	*1*

Lab Sample ID: LCS 680-825943/21-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.60	4.342		mg/Kg		66	33 - 130
Acenaphthylene	6.60	4.566		mg/Kg		69	34 - 130
Acetophenone	6.60	4.134		mg/Kg		63	28 - 130
Anthracene	6.60	5.059		mg/Kg		77	39 - 130
Atrazine	6.60	4.906		mg/Kg		74	27 - 130
Benzaldehyde	6.60	3.581		mg/Kg		54	10 - 130
Benzo[a]anthracene	6.60	5.192		mg/Kg		79	40 - 130
Benzo[a]pyrene	6.60	5.147		mg/Kg		78	37 - 131
Benzo[b]fluoranthene	6.60	5.198		mg/Kg		79	35 - 130
Benzo[g,h,i]perylene	6.60	5.225		mg/Kg		79	39 - 130
Benzo[k]fluoranthene	6.60	5.038		mg/Kg		76	35 - 130
1,1'-Biphenyl	6.60	4.444		mg/Kg		67	32 - 130
Bis(2-chloroethoxy)methane	6.60	4.210		mg/Kg		64	29 - 130
Bis(2-chloroethyl)ether	6.60	3.998		mg/Kg		61	18 - 130
bis (2-chloroisopropyl) ether	6.60	4.270		mg/Kg		65	12 - 130
Bis(2-ethylhexyl) phthalate	6.60	5.740		mg/Kg		87	39 - 130
4-Bromophenyl phenyl ether	6.60	4.540		mg/Kg		69	32 - 130
Butyl benzyl phthalate	6.60	5.690		mg/Kg		86	38 - 130
Caprolactam	6.60	5.267		mg/Kg		80	27 - 148

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

Lab Sample ID: LCS 680-825943/21-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbazole	6.60	5.138		mg/Kg		78	43 - 130
4-Chloroaniline	6.60	4.243		mg/Kg		64	10 - 130
4-Chloro-3-methylphenol	6.60	4.762		mg/Kg		72	31 - 130
2-Chloronaphthalene	6.60	4.273		mg/Kg		65	30 - 130
2-Chlorophenol	6.60	4.234		mg/Kg		64	28 - 130
4-Chlorophenyl phenyl ether	6.60	4.526		mg/Kg		69	32 - 130
Chrysene	6.60	5.016		mg/Kg		76	40 - 130
Dibenz(a,h)anthracene	6.60	5.283		mg/Kg		80	37 - 130
Dibenzofuran	6.60	4.494		mg/Kg		68	34 - 130
3,3'-Dichlorobenzidine	6.60	4.151		mg/Kg		63	10 - 130
2,4-Dichlorophenol	6.60	4.567		mg/Kg		69	30 - 130
Diethyl phthalate	6.60	5.155		mg/Kg		78	36 - 130
2,4-Dimethylphenol	6.60	4.251		mg/Kg		64	34 - 130
Dimethyl phthalate	6.60	4.802		mg/Kg		73	36 - 130
Di-n-butyl phthalate	6.60	5.561		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	13.2	9.852		mg/Kg		75	22 - 130
2,4-Dinitrophenol	13.2	7.705		mg/Kg		58	10 - 130
2,4-Dinitrotoluene	6.60	4.876		mg/Kg		74	34 - 130
2,6-Dinitrotoluene	6.60	4.881		mg/Kg		74	33 - 130
Di-n-octyl phthalate	6.60	5.656		mg/Kg		86	38 - 131
Fluoranthene	6.60	5.176		mg/Kg		78	38 - 130
Fluorene	6.60	4.706		mg/Kg		71	34 - 130
Hexachlorobenzene	6.60	4.606		mg/Kg		70	28 - 130
Hexachlorobutadiene	6.60	3.474		mg/Kg		53	22 - 130
Hexachlorocyclopentadiene	6.60	2.679		mg/Kg		41	11 - 130
Hexachloroethane	6.60	3.536		mg/Kg		54	21 - 130
Indeno[1,2,3-cd]pyrene	6.60	5.121		mg/Kg		78	40 - 130
Isophorone	6.60	4.534		mg/Kg		69	26 - 130
2-Methylnaphthalene	6.60	4.271		mg/Kg		65	28 - 130
2-Methylphenol	6.60	4.607		mg/Kg		70	30 - 130
3 & 4 Methylphenol	6.60	4.703		mg/Kg		71	31 - 130
Naphthalene	6.60	4.023		mg/Kg		61	25 - 130
2-Nitroaniline	6.60	5.266		mg/Kg		80	26 - 130
3-Nitroaniline	6.60	4.662		mg/Kg		71	10 - 130
4-Nitroaniline	6.60	4.974		mg/Kg		75	25 - 130
Nitrobenzene	6.60	4.101		mg/Kg		62	25 - 130
2-Nitrophenol	6.60	4.052		mg/Kg		61	24 - 130
4-Nitrophenol	13.2	11.20		mg/Kg		85	25 - 130
N-Nitrosodi-n-propylamine	6.60	4.572		mg/Kg		69	24 - 130
N-Nitrosodiphenylamine	6.60	4.874		mg/Kg		74	37 - 130
Pentachlorophenol	13.2	8.480		mg/Kg		64	16 - 135
Phenanthrene	6.60	5.063		mg/Kg		77	38 - 130
Phenol	6.60	4.533		mg/Kg		69	27 - 130
Pyrene	6.60	5.461		mg/Kg		83	40 - 130
Pyridine	13.2	3.816		mg/Kg		29	10 - 130
2,4,5-Trichlorophenol	6.60	4.699		mg/Kg		71	33 - 130
2,4,6-Trichlorophenol	6.60	4.687		mg/Kg		71	31 - 130

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

Lab Sample ID: LCS 680-825943/21-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825943

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	63		25 - 130
2-Fluorophenol (Surr)	61		18 - 130
Nitrobenzene-d5 (Surr)	61		19 - 130
Phenol-d5 (Surr)	66		21 - 130
Terphenyl-d14 (Surr)	74		31 - 133
2,4,6-Tribromophenol (Surr)	70		21 - 132

GC/MS VOA

Prep Batch: 825326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	5035A	
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	5035A	
680-247306-2 - DL	WOTA-SS-01 (8)	Total/NA	Solid	5035A	
680-247306-2	WOTA-SS-01 (8)	Total/NA	Solid	5035A	
680-247306-3 - DL	WOTA-SS-02 (4)	Total/NA	Solid	5035A	
680-247306-3	WOTA-SS-02 (4)	Total/NA	Solid	5035A	
680-247306-4 - DL	WOTA-SS-02 (8)	Total/NA	Solid	5035A	
680-247306-4	WOTA-SS-02 (8)	Total/NA	Solid	5035A	
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	5035A	
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	5035A	
680-247306-6 - DL	WOTA-SS-03 (8)	Total/NA	Solid	5035A	
680-247306-6	WOTA-SS-03 (8)	Total/NA	Solid	5035A	
680-247306-10 - DL	DUP-WOTA	Total/NA	Solid	5035A	
680-247306-10	DUP-WOTA	Total/NA	Solid	5035A	

Analysis Batch: 825632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-11	TB-01_20240228	Total/NA	Water	8260D	
MB 680-825632/10	Method Blank	Total/NA	Water	8260D	
LCS 680-825632/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-825632/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 826047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	8260D	825326
680-247306-2	WOTA-SS-01 (8)	Total/NA	Solid	8260D	825326
680-247306-3	WOTA-SS-02 (4)	Total/NA	Solid	8260D	825326
680-247306-4	WOTA-SS-02 (8)	Total/NA	Solid	8260D	825326
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	8260D	825326
680-247306-6	WOTA-SS-03 (8)	Total/NA	Solid	8260D	825326
680-247306-10	DUP-WOTA	Total/NA	Solid	8260D	825326
MB 680-826047/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-826047/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826047/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 826213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-2 - DL	WOTA-SS-01 (8)	Total/NA	Solid	8260D	825326
680-247306-3 - DL	WOTA-SS-02 (4)	Total/NA	Solid	8260D	825326
680-247306-4 - DL	WOTA-SS-02 (8)	Total/NA	Solid	8260D	825326
680-247306-6 - DL	WOTA-SS-03 (8)	Total/NA	Solid	8260D	825326
680-247306-10 - DL	DUP-WOTA	Total/NA	Solid	8260D	825326
MB 680-826213/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-826213/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826213/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 826220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	8260D	825326
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	8260D	825326
MB 680-826220/9	Method Blank	Total/NA	Solid	8260D	

GC/MS VOA (Continued)

Analysis Batch: 826220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-826220/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826220/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 825943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	3546	
680-247306-2	WOTA-SS-01 (8)	Total/NA	Solid	3546	
680-247306-3	WOTA-SS-02 (4)	Total/NA	Solid	3546	
680-247306-4	WOTA-SS-02 (8)	Total/NA	Solid	3546	
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	3546	
680-247306-6	WOTA-SS-03 (8)	Total/NA	Solid	3546	
680-247306-10	DUP-WOTA	Total/NA	Solid	3546	
MB 680-825943/20-A	Method Blank	Total/NA	Solid	3546	
LCS 680-825943/21-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 826070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	8270E	825943
680-247306-2	WOTA-SS-01 (8)	Total/NA	Solid	8270E	825943
680-247306-3	WOTA-SS-02 (4)	Total/NA	Solid	8270E	825943
680-247306-4	WOTA-SS-02 (8)	Total/NA	Solid	8270E	825943
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	8270E	825943
680-247306-6	WOTA-SS-03 (8)	Total/NA	Solid	8270E	825943
680-247306-10	DUP-WOTA	Total/NA	Solid	8270E	825943

Analysis Batch: 826072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-825943/20-A	Method Blank	Total/NA	Solid	8270E	825943
LCS 680-825943/21-A	Lab Control Sample	Total/NA	Solid	8270E	825943

General Chemistry

Analysis Batch: 825328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247306-1	WOTA-SS-01 (4)	Total/NA	Solid	Moisture	
680-247306-2	WOTA-SS-01 (8)	Total/NA	Solid	Moisture	
680-247306-3	WOTA-SS-02 (4)	Total/NA	Solid	Moisture	
680-247306-4	WOTA-SS-02 (8)	Total/NA	Solid	Moisture	
680-247306-5	WOTA-SS-03 (4)	Total/NA	Solid	Moisture	
680-247306-6	WOTA-SS-03 (8)	Total/NA	Solid	Moisture	
680-247306-10	DUP-WOTA	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-01 (4)
Date Collected: 02/28/24 14:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-01 (4)
Date Collected: 02/28/24 14:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-1
Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.189 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 17:17	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	5035A			7.194 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826220	03/07/24 12:02	MLL	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.40 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 16:02	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WOTA-SS-01 (8)
Date Collected: 02/28/24 14:20
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-01 (8)
Date Collected: 02/28/24 14:20
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-2
Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		7.248 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D	DL	250	5 g	5 g	826213	03/07/24 19:40	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			7.203 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 17:39	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.43 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 16:28	OK	EET SAV
	Instrument ID: CMSK									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-02 (4)
Date Collected: 02/28/24 14:30
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-02 (4)
Date Collected: 02/28/24 14:30
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-3
Matrix: Solid
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		7.356 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D	DL	1000	5 g	5 g	826213	03/07/24 14:55	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			7.356 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		100	5 g	5 g	826047	03/06/24 21:15	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.81 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 16:55	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WOTA-SS-02 (8)
Date Collected: 02/28/24 14:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-02 (8)
Date Collected: 02/28/24 14:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-4
Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		7.272 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D	DL	100	5 g	5 g	826213	03/07/24 15:39	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			7.298 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 18:00	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.72 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 17:21	OK	EET SAV
	Instrument ID: CMSK									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: WOTA-SS-03 (4)
Date Collected: 02/28/24 14:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-03 (4)
Date Collected: 02/28/24 14:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-5
Matrix: Solid
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.911 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 18:22	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	5035A			6.853 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826220	03/07/24 12:23	MLL	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.42 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 17:47	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WOTA-SS-03 (8)
Date Collected: 02/28/24 15:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-03 (8)
Date Collected: 02/28/24 15:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-6
Matrix: Solid
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		6.034 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D	DL	40	5 g	5 g	826213	03/07/24 17:28	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			5.76 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 18:44	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.84 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 18:14	OK	EET SAV
	Instrument ID: CMSK									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Client Sample ID: DUP-WOTA
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-WOTA
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-10
Matrix: Solid
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		5.38 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D	DL	1000	5 g	5 g	826213	03/07/24 15:17	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			5.38 g	5 mL	825326	03/01/24 08:57	FES	EET SAV
Total/NA	Analysis	8260D		100	5 g	5 g	826047	03/06/24 21:37	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.89 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826070	03/06/24 19:58	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: TB-01_20240228
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247306-11
Matrix: Water

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	825632	03/04/24 13:57	P1C	EET SAV
	Instrument ID: CMSAB									

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: 680-247306-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247306-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler: ED	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.4
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 4 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - Gasoline Range Organics	8015C_DRO - Diesel Range Organics	8260D - VOCs NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
WOTA-SS-01 (4)	2/28	1410	G	S					X	X					
WOTA-SS-01 (8)		1420													
WOTA-SS-02 (4)		1430													
WOTA-SS-02 (8)		1440													
WOTA-SS-03 (4)		1450													
WOTA-SS-03 (8)		1500													
WOTA-SS-04a (4)		1510													
WOTA-SS-04b (4)		1520													
WOTA-SS-04 (8)		1530													
DUP-WOTA									X	X					
TB-01 20240228									X						

680-247306 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
				2.29.24 1011	TM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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:
		2.5/2.5

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247306-1

Login Number: 247306
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/8/2024 3:42:30 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247307-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization



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Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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, high biased.

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

Sample Summary

Client: Terracon Consultants, Inc.
Job ID: 680-247307-1
Project/Site: Tarheel Army Missile Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247307-1	WOTA-BS-01	Solid	02/27/24 18:50	02/29/24 10:11
680-247307-2	WOTA-BS-02	Solid	02/27/24 19:00	02/29/24 10:11
680-247307-3	WOTA-BS-03	Solid	02/27/24 19:10	02/29/24 10:11

Job ID: 680-247307-1 Eurofins Savannah

Job Narrative
680-247307-1

Receipt
The samples were received on 2/29/2024 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following samples were outside control limits: WOTA-BS-01 (680-247307-1) and WOTA-BS-02 (680-247307-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The method blank for analytical batch 680-826213 contained Acetone above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than half of the reporting limit (RL).

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

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-01
Date Collected: 02/27/24 18:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-1
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.464**	**J B**	1.58	0.348	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Benzene	<0.0759		0.158	0.0759	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Bromobenzene	<0.0538		0.158	0.0538	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Chlorobromomethane	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Dichlorobromomethane	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Bromoform	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Bromomethane	<0.0759	*+	0.158	0.0759	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
2-Butanone (MEK)	<0.291		0.790	0.291	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
n-Butylbenzene	<0.0601		0.158	0.0601	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
sec-Butylbenzene	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
tert-Butylbenzene	<0.0790		0.158	0.0790	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Carbon disulfide	<0.0664		0.158	0.0664	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Carbon tetrachloride	<0.0664		0.158	0.0664	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Chlorobenzene	<0.0443		0.158	0.0443	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Chloroethane	<0.0696	*+	0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Chloroform	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Chloromethane	<0.0759		0.158	0.0759	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
2-Chlorotoluene	<0.0727		0.158	0.0727	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
4-Chlorotoluene	<0.0664		0.158	0.0664	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Chlorodibromomethane	<0.0664		0.158	0.0664	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2-Dibromo-3-Chloropropane	<0.0506		0.316	0.0506	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Ethylene Dibromide	<0.0538		0.158	0.0538	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Dibromomethane	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2-Dichlorobenzene	<0.0538		0.158	0.0538	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,3-Dichlorobenzene	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,4-Dichlorobenzene	<0.0569		0.158	0.0569	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
trans-1,4-Dichloro-2-butene	<0.0759		0.316	0.0759	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Dichlorodifluoromethane	<0.101	*+	0.158	0.101	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1-Dichloroethane	<0.0917		0.158	0.0917	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2-Dichloroethane	<0.0727		0.158	0.0727	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
cis-1,2-Dichloroethene	<0.0917		0.158	0.0917	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
trans-1,2-Dichloroethene	<0.0727		0.158	0.0727	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1-Dichloroethene	<0.114		0.158	0.114	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2-Dichloropropane	<0.0822		0.158	0.0822	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,3-Dichloropropane	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
2,2-Dichloropropane	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1-Dichloropropene	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
cis-1,3-Dichloropropene	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
trans-1,3-Dichloropropene	<0.0822		0.158	0.0822	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Ethylbenzene	<0.0664		0.158	0.0664	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Hexachlorobutadiene	<0.130		0.158	0.130	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
2-Hexanone	<0.601		0.790	0.601	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Iodomethane	**0.171**		0.158	0.0538	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Isopropylbenzene	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
4-Isopropyltoluene	<0.0822		0.158	0.0822	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Methylene Chloride	<0.253		0.316	0.253	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
4-Methyl-2-pentanone (MIBK)	<0.569		0.790	0.569	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Methyl tert-butyl ether	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Naphthalene	**0.119**	**J**	0.158	0.0980	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40

Client Sample ID: WOTA-BS-01
Date Collected: 02/27/24 18:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-1
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Styrene	<0.0601		0.158	0.0601	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1,1,2-Tetrachloroethane	<0.0411		0.158	0.0411	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1,2,2-Tetrachloroethane	<0.0664		0.158	0.0664	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Tetrachloroethene	<0.0822		0.158	0.0822	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Toluene	<0.0822		0.158	0.0822	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2,3-Trichlorobenzene	<0.0632		0.158	0.0632	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2,4-Trichlorobenzene	<0.0790		0.158	0.0790	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1,1-Trichloroethane	<0.0822		0.158	0.0822	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1,2-Trichloroethane	<0.0474		0.158	0.0474	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Trichloroethene	**0.498**		0.158	0.0569	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Trichlorofluoromethane	<0.0980		0.158	0.0980	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2,3-Trichloropropane	<0.0569		0.158	0.0569	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0917		0.158	0.0917	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,2,4-Trimethylbenzene	<0.0790		0.158	0.0790	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
1,3,5-Trimethylbenzene	<0.0759		0.158	0.0759	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Vinyl acetate	<0.174		0.316	0.174	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Vinyl chloride	<0.0885		0.158	0.0885	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
o-Xylene	<0.0727		0.158	0.0727	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
m-Xylene & p-Xylene	<0.0696		0.158	0.0696	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Xylenes, Total	<0.114		0.316	0.114	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Isopropyl ether	<0.0474		0.316	0.0474	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Hexane	<0.0538		0.158	0.0538	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
n-Heptane	<0.136		0.158	0.136	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40
Ethyl acetate	<0.316		0.316	0.316	mg/Kg	☼	03/01/24 09:35	03/07/24 20:02	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*135*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 20:02*	*40*
1,2-Dichloroethane-d4 (Surr)	*128*		*65 - 130*	*03/01/24 09:35*	*03/07/24 20:02*	*40*
Dibromofluoromethane (Surr)	*131*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 20:02*	*40*
4-Bromofluorobenzene (Surr)	*106*		*65 - 130*	*03/01/24 09:35*	*03/07/24 20:02*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0493		0.397	0.0493	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Acenaphthylene	<0.0433		0.397	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Acetophenone	<0.0337		0.397	0.0337	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Anthracene	<0.0301		0.397	0.0301	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Atrazine	<0.0276		0.397	0.0276	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Benzaldehyde	<0.0697		0.397	0.0697	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Benzo[a]anthracene	<0.0325		0.397	0.0325	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Benzo[a]pyrene	<0.0625		0.397	0.0625	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Benzo[b]fluoranthene	<0.0457		0.397	0.0457	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Benzo[g,h,i]perylene	<0.0264		0.397	0.0264	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Benzo[k]fluoranthene	<0.0781		0.397	0.0781	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
1,1'-Biphenyl	<2.04		2.04	2.04	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Bis(2-chloroethoxy)methane	<0.0469		0.397	0.0469	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Bis(2-chloroethyl)ether	<0.0541		0.397	0.0541	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
bis (2-chloroisopropyl) ether	<0.0361		0.397	0.0361	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Bis(2-ethylhexyl) phthalate	<0.0349		0.397	0.0349	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-01
Date Collected: 02/27/24 18:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-1
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0433		0.397	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Butyl benzyl phthalate	<0.0313		0.397	0.0313	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Caprolactam	<0.0793		0.397	0.0793	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Carbazole	<0.0361		0.397	0.0361	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
4-Chloroaniline	<0.0625		0.793	0.0625	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
4-Chloro-3-methylphenol	<0.0421		0.397	0.0421	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2-Chloronaphthalene	<0.0421		0.397	0.0421	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2-Chlorophenol	<0.0481		0.397	0.0481	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
4-Chlorophenyl phenyl ether	<0.0529		0.397	0.0529	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Chrysene	<0.0252		0.397	0.0252	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Dibenz(a,h)anthracene	<0.0469		0.397	0.0469	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Dibenzofuran	<0.0397		0.397	0.0397	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
3,3'-Dichlorobenzidine	<0.0337		0.793	0.0337	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2,4-Dichlorophenol	<0.0421		0.397	0.0421	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Diethyl phthalate	<0.0445		0.397	0.0445	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2,4-Dimethylphenol	<0.0529		0.397	0.0529	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Dimethyl phthalate	<0.0409		0.397	0.0409	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Di-n-butyl phthalate	<0.0361		0.397	0.0361	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
4,6-Dinitro-2-methylphenol	<0.204		2.04	0.204	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2,4-Dinitrophenol	<0.998		2.04	0.998	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2,4-Dinitrotoluene	<0.0589		0.397	0.0589	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2,6-Dinitrotoluene	<0.0505		0.397	0.0505	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Di-n-octyl phthalate	<0.0349		0.397	0.0349	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Fluoranthene	<0.0385		0.397	0.0385	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Fluorene	<0.0433		0.397	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Hexachlorobenzene	<0.0469		0.397	0.0469	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Hexachlorobutadiene	<0.0433		0.397	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Hexachlorocyclopentadiene	<0.0493		0.397	0.0493	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Hexachloroethane	<0.0337		0.397	0.0337	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Indeno[1,2,3-cd]pyrene	<0.0337		0.397	0.0337	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Isophorone	<0.0397		0.397	0.0397	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2-Methylnaphthalene	<0.0457		0.397	0.0457	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2-Methylphenol	<0.0325		0.397	0.0325	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
3 & 4 Methylphenol	<0.0517		0.397	0.0517	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Naphthalene	<0.0361		0.397	0.0361	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2-Nitroaniline	<0.0541		2.04	0.0541	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
3-Nitroaniline	<0.0553		2.04	0.0553	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
4-Nitroaniline	<0.0589		2.04	0.0589	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Nitrobenzene	<0.0313		0.397	0.0313	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2-Nitrophenol	<0.0493		0.397	0.0493	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
4-Nitrophenol	<0.397		2.04	0.397	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
N-Nitrosodi-n-propylamine	<0.0385		0.397	0.0385	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
N-Nitrosodiphenylamine	<0.0397		0.397	0.0397	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Pentachlorophenol	<0.397		2.04	0.397	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Phenanthrene	<0.0325		0.397	0.0325	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Phenol	<0.0409		0.397	0.0409	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Pyrene	<0.0325		0.397	0.0325	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
Pyridine	<0.397		0.793	0.397	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1
2,4,5-Trichlorophenol	<0.0421		0.397	0.0421	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-01

Lab Sample ID: 680-247307-1

Date Collected: 02/27/24 18:50
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0349		0.397	0.0349	mg/Kg	☼	03/06/24 07:30	03/06/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*25 - 130*	*03/06/24 07:30*	*03/06/24 16:25*	*1*
2-Fluorophenol (Surr)	*63*		*18 - 130*	*03/06/24 07:30*	*03/06/24 16:25*	*1*
Nitrobenzene-d5 (Surr)	*69*		*19 - 130*	*03/06/24 07:30*	*03/06/24 16:25*	*1*
Phenol-d5 (Surr)	*64*		*21 - 130*	*03/06/24 07:30*	*03/06/24 16:25*	*1*
Terphenyl-d14 (Surr)	*78*		*31 - 133*	*03/06/24 07:30*	*03/06/24 16:25*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*21 - 132*	*03/06/24 07:30*	*03/06/24 16:25*	*1*

Client Sample ID: WOTA-BS-02

Lab Sample ID: 680-247307-2

Date Collected: 02/27/24 19:00
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.724**	**J B**	1.82	0.401	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Benzene	<0.0874		0.182	0.0874	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Bromobenzene	<0.0619		0.182	0.0619	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Chlorobromomethane	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Dichlorobromomethane	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Bromoform	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Bromomethane	<0.0874	*+	0.182	0.0874	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
2-Butanone (MEK)	<0.335		0.910	0.335	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
n-Butylbenzene	<0.0692		0.182	0.0692	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
sec-Butylbenzene	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
tert-Butylbenzene	<0.0910		0.182	0.0910	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Carbon disulfide	<0.0765		0.182	0.0765	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Carbon tetrachloride	<0.0765		0.182	0.0765	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Chlorobenzene	<0.0510		0.182	0.0510	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Chloroethane	<0.0801	*+	0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Chloroform	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Chloromethane	<0.0874		0.182	0.0874	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
2-Chlorotoluene	<0.0838		0.182	0.0838	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
4-Chlorotoluene	<0.0765		0.182	0.0765	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Chlorodibromomethane	<0.0765		0.182	0.0765	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2-Dibromo-3-Chloropropane	<0.0583		0.364	0.0583	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Ethylene Dibromide	<0.0619		0.182	0.0619	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Dibromomethane	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2-Dichlorobenzene	<0.0619		0.182	0.0619	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,3-Dichlorobenzene	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,4-Dichlorobenzene	<0.0656		0.182	0.0656	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
trans-1,4-Dichloro-2-butene	<0.0874		0.364	0.0874	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Dichlorodifluoromethane	<0.117	*+	0.182	0.117	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1-Dichloroethane	<0.106		0.182	0.106	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2-Dichloroethane	<0.0838		0.182	0.0838	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
cis-1,2-Dichloroethene	<0.106		0.182	0.106	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
trans-1,2-Dichloroethene	<0.0838		0.182	0.0838	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1-Dichloroethene	<0.131		0.182	0.131	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2-Dichloropropane	<0.0947		0.182	0.0947	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-02
Date Collected: 02/27/24 19:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-2
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
2,2-Dichloropropane	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1-Dichloropropene	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
cis-1,3-Dichloropropene	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
trans-1,3-Dichloropropene	<0.0947		0.182	0.0947	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Ethylbenzene	<0.0765		0.182	0.0765	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Hexachlorobutadiene	<0.149		0.182	0.149	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
2-Hexanone	<0.692		0.910	0.692	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Iodomethane	**0.195**		0.182	0.0619	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Isopropylbenzene	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
4-Isopropyltoluene	<0.0947		0.182	0.0947	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Methylene Chloride	<0.291		0.364	0.291	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
4-Methyl-2-pentanone (MIBK)	<0.656		0.910	0.656	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Methyl tert-butyl ether	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Naphthalene	**0.138**	**J**	0.182	0.113	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
N-Propylbenzene	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Styrene	<0.0692		0.182	0.0692	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1,1,2-Tetrachloroethane	<0.0473		0.182	0.0473	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1,2,2-Tetrachloroethane	<0.0765		0.182	0.0765	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Tetrachloroethene	<0.0947		0.182	0.0947	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Toluene	<0.0947		0.182	0.0947	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2,3-Trichlorobenzene	<0.0728		0.182	0.0728	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2,4-Trichlorobenzene	<0.0910		0.182	0.0910	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1,1-Trichloroethane	<0.0947		0.182	0.0947	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1,2-Trichloroethane	<0.0546		0.182	0.0546	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Trichloroethene	**1.35**		0.182	0.0656	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Trichlorofluoromethane	<0.113		0.182	0.113	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2,3-Trichloropropane	<0.0656		0.182	0.0656	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.106		0.182	0.106	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,2,4-Trimethylbenzene	<0.0910		0.182	0.0910	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
1,3,5-Trimethylbenzene	<0.0874		0.182	0.0874	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Vinyl acetate	<0.200		0.364	0.200	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Vinyl chloride	<0.102		0.182	0.102	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
o-Xylene	<0.0838		0.182	0.0838	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
m-Xylene & p-Xylene	<0.0801		0.182	0.0801	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Xylenes, Total	<0.131		0.364	0.131	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Isopropyl ether	<0.0546		0.364	0.0546	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Hexane	<0.0619		0.182	0.0619	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
n-Heptane	<0.157		0.182	0.157	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40
Ethyl acetate	<0.364		0.364	0.364	mg/Kg	☼	03/01/24 09:35	03/07/24 18:56	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*131*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 18:56*	*40*
1,2-Dichloroethane-d4 (Surr)	*133*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 18:56*	*40*
Dibromofluoromethane (Surr)	*135*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 18:56*	*40*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*03/01/24 09:35*	*03/07/24 18:56*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0507		0.408	0.0507	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1

Client: Terracon Consultants, Inc.
Job ID: 680-247307-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: WOTA-BS-02
Lab Sample ID: 680-247307-2
Date Collected: 02/27/24 19:00
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.0445		0.408	0.0445	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Acetophenone	<0.0346		0.408	0.0346	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Anthracene	<0.0309		0.408	0.0309	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Atrazine	<0.0285		0.408	0.0285	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Benzaldehyde	<0.0717		0.408	0.0717	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Benzo[a]anthracene	<0.0334		0.408	0.0334	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Benzo[a]pyrene	<0.0643		0.408	0.0643	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Benzo[b]fluoranthene	<0.0470		0.408	0.0470	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Benzo[g,h,i]perylene	<0.0272		0.408	0.0272	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Benzo[k]fluoranthene	<0.0804		0.408	0.0804	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
1,1'-Biphenyl	<2.10		2.10	2.10	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Bis(2-chloroethoxy)methane	<0.0482		0.408	0.0482	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Bis(2-chloroethyl)ether	<0.0557		0.408	0.0557	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
bis (2-chloroisopropyl) ether	<0.0371		0.408	0.0371	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Bis(2-ethylhexyl) phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4-Bromophenyl phenyl ether	<0.0445		0.408	0.0445	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Butyl benzyl phthalate	<0.0322		0.408	0.0322	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Caprolactam	<0.0816		0.408	0.0816	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Carbazole	<0.0371		0.408	0.0371	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4-Chloroaniline	<0.0643		0.816	0.0643	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4-Chloro-3-methylphenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2-Chloronaphthalene	<0.0433		0.408	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2-Chlorophenol	<0.0495		0.408	0.0495	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4-Chlorophenyl phenyl ether	<0.0544		0.408	0.0544	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Chrysene	<0.0260		0.408	0.0260	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Dibenz(a,h)anthracene	<0.0482		0.408	0.0482	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Dibenzofuran	<0.0408		0.408	0.0408	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
3,3'-Dichlorobenzidine	<0.0346		0.816	0.0346	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,4-Dichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Diethyl phthalate	<0.0458		0.408	0.0458	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,4-Dimethylphenol	<0.0544		0.408	0.0544	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Dimethyl phthalate	<0.0421		0.408	0.0421	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Di-n-butyl phthalate	<0.0371		0.408	0.0371	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4,6-Dinitro-2-methylphenol	<0.210		2.10	0.210	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,4-Dinitrophenol	<1.03		2.10	1.03	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,4-Dinitrotoluene	<0.0606		0.408	0.0606	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,6-Dinitrotoluene	<0.0520		0.408	0.0520	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Di-n-octyl phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Fluoranthene	<0.0396		0.408	0.0396	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Fluorene	<0.0445		0.408	0.0445	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Hexachlorobenzene	<0.0482		0.408	0.0482	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Hexachlorobutadiene	<0.0445		0.408	0.0445	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Hexachlorocyclopentadiene	<0.0507		0.408	0.0507	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Hexachloroethane	<0.0346		0.408	0.0346	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Indeno[1,2,3-cd]pyrene	<0.0346		0.408	0.0346	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Isophorone	<0.0408		0.408	0.0408	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2-Methylnaphthalene	<0.0470		0.408	0.0470	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2-Methylphenol	<0.0334		0.408	0.0334	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
3 & 4 Methylphenol	<0.0532		0.408	0.0532	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1

Client Sample ID: WOTA-BS-02

Lab Sample ID: 680-247307-2

Date Collected: 02/27/24 19:00
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.0371		0.408	0.0371	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2-Nitroaniline	<0.0557		2.10	0.0557	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
3-Nitroaniline	<0.0569		2.10	0.0569	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4-Nitroaniline	<0.0606		2.10	0.0606	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Nitrobenzene	<0.0322		0.408	0.0322	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2-Nitrophenol	<0.0507		0.408	0.0507	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
4-Nitrophenol	<0.408		2.10	0.408	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
N-Nitrosodi-n-propylamine	<0.0396		0.408	0.0396	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
N-Nitrosodiphenylamine	<0.0408		0.408	0.0408	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Pentachlorophenol	<0.408		2.10	0.408	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Phenanthrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Phenol	<0.0421		0.408	0.0421	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Pyrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
Pyridine	<0.408		0.816	0.408	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,4,5-Trichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1
2,4,6-Trichlorophenol	<0.0359		0.408	0.0359	mg/Kg	☼	03/06/24 07:30	03/06/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*25 - 130*	*03/06/24 07:30*	*03/06/24 17:16*	*1*
2-Fluorophenol (Surr)	*65*		*18 - 130*	*03/06/24 07:30*	*03/06/24 17:16*	*1*
Nitrobenzene-d5 (Surr)	*68*		*19 - 130*	*03/06/24 07:30*	*03/06/24 17:16*	*1*
Phenol-d5 (Surr)	*65*		*21 - 130*	*03/06/24 07:30*	*03/06/24 17:16*	*1*
Terphenyl-d14 (Surr)	*82*		*31 - 133*	*03/06/24 07:30*	*03/06/24 17:16*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*	*03/06/24 07:30*	*03/06/24 17:16*	*1*

Client Sample ID: WOTA-BS-03

Lab Sample ID: 680-247307-3

Date Collected: 02/27/24 19:10
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0154**	**J**	0.0501	0.0110	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Benzene	<0.00240		0.00501	0.00240	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Bromobenzene	<0.00170		0.00501	0.00170	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Chlorobromomethane	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Dichlorobromomethane	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Bromoform	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Bromomethane	<0.00240		0.00501	0.00240	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
2-Butanone (MEK)	<0.00922		0.0250	0.00922	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
n-Butylbenzene	<0.00190		0.00501	0.00190	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
sec-Butylbenzene	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
tert-Butylbenzene	<0.00250		0.00501	0.00250	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Carbon disulfide	<0.00210		0.00501	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Carbon tetrachloride	<0.00210		0.00501	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Chlorobenzene	<0.00140		0.00501	0.00140	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Chloroethane	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Chloroform	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Chloromethane	<0.00240		0.00501	0.00240	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
2-Chlorotoluene	<0.00230		0.00501	0.00230	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
4-Chlorotoluene	<0.00210		0.00501	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-03
Date Collected: 02/27/24 19:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-3
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.00210		0.00501	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Ethylene Dibromide	<0.00170		0.00501	0.00170	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Dibromomethane	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2-Dichlorobenzene	<0.00170		0.00501	0.00170	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,3-Dichlorobenzene	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,4-Dichlorobenzene	<0.00180		0.00501	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Dichlorodifluoromethane	<0.00321		0.00501	0.00321	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1-Dichloroethane	**0.00383**	**J**	0.00501	0.00291	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2-Dichloroethane	<0.00230		0.00501	0.00230	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
cis-1,2-Dichloroethene	**0.128**		0.00501	0.00291	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
trans-1,2-Dichloroethene	**0.00291**	**J**	0.00501	0.00230	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1-Dichloroethene	<0.00361		0.00501	0.00361	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2-Dichloropropane	<0.00260		0.00501	0.00260	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,3-Dichloropropane	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
2,2-Dichloropropane	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1-Dichloropropene	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
cis-1,3-Dichloropropene	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
trans-1,3-Dichloropropene	<0.00260		0.00501	0.00260	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Ethylbenzene	<0.00210		0.00501	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Hexachlorobutadiene	<0.00411		0.00501	0.00411	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Iodomethane	<0.00170		0.00501	0.00170	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Isopropylbenzene	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
4-Isopropyltoluene	<0.00260		0.00501	0.00260	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Methylene Chloride	<0.00801		0.0100	0.00801	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Methyl tert-butyl ether	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Naphthalene	<0.00311		0.00501	0.00311	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
N-Propylbenzene	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Styrene	<0.00190		0.00501	0.00190	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00501	0.00130	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00501	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Tetrachloroethene	<0.00260		0.00501	0.00260	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Toluene	<0.00260		0.00501	0.00260	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2,3-Trichlorobenzene	<0.00200		0.00501	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2,4-Trichlorobenzene	<0.00250		0.00501	0.00250	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1,1-Trichloroethane	<0.00260		0.00501	0.00260	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1,2-Trichloroethane	<0.00150		0.00501	0.00150	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Trichlorofluoromethane	<0.00311		0.00501	0.00311	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2,3-Trichloropropane	<0.00180		0.00501	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00291		0.00501	0.00291	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,2,4-Trimethylbenzene	<0.00250		0.00501	0.00250	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
1,3,5-Trimethylbenzene	<0.00240		0.00501	0.00240	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Vinyl acetate	<0.00551		0.0100	0.00551	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Vinyl chloride	<0.00281		0.00501	0.00281	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
o-Xylene	<0.00230		0.00501	0.00230	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
m-Xylene & p-Xylene	<0.00220		0.00501	0.00220	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-03
Date Collected: 02/27/24 19:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-3
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00361		0.0100	0.00361	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Hexane	<0.00170		0.00501	0.00170	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
n-Heptane	<0.00431		0.00501	0.00431	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg	☼	03/01/24 09:35	03/06/24 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*03/01/24 09:35*	*03/06/24 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*65 - 130*	*03/01/24 09:35*	*03/06/24 16:55*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*	*03/01/24 09:35*	*03/06/24 16:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*	*03/01/24 09:35*	*03/06/24 16:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.34		0.192	0.0690	mg/Kg	☼	03/01/24 09:35	03/07/24 14:12	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*65 - 130*	*03/01/24 09:35*	*03/07/24 14:12*	*40*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 130*	*03/01/24 09:35*	*03/07/24 14:12*	*40*
Dibromofluoromethane (Surr)	*108*		*65 - 130*	*03/01/24 09:35*	*03/07/24 14:12*	*40*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*	*03/01/24 09:35*	*03/07/24 14:12*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0516		0.415	0.0516	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Acenaphthylene	<0.0453		0.415	0.0453	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Acetophenone	<0.0352		0.415	0.0352	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Anthracene	<0.0315		0.415	0.0315	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Atrazine	<0.0290		0.415	0.0290	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Benzaldehyde	<0.0730		0.415	0.0730	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Benzo[a]anthracene	<0.0340		0.415	0.0340	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Benzo[a]pyrene	<0.0655		0.415	0.0655	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Benzo[b]fluoranthene	<0.0478		0.415	0.0478	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Benzo[g,h,i]perylene	<0.0277		0.415	0.0277	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Benzo[k]fluoranthene	<0.0818		0.415	0.0818	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
1,1'-Biphenyl	<2.14		2.14	2.14	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Bis(2-chloroethoxy)methane	<0.0491		0.415	0.0491	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Bis(2-chloroethyl)ether	<0.0567		0.415	0.0567	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
bis (2-chloroisopropyl) ether	<0.0378		0.415	0.0378	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Bis(2-ethylhexyl) phthalate	<0.0365		0.415	0.0365	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4-Bromophenyl phenyl ether	<0.0453		0.415	0.0453	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Butyl benzyl phthalate	<0.0327		0.415	0.0327	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Caprolactam	<0.0831		0.415	0.0831	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Carbazole	<0.0378		0.415	0.0378	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4-Chloroaniline	<0.0655		0.831	0.0655	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4-Chloro-3-methylphenol	<0.0441		0.415	0.0441	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2-Chloronaphthalene	<0.0441		0.415	0.0441	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2-Chlorophenol	<0.0504		0.415	0.0504	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4-Chlorophenyl phenyl ether	<0.0554		0.415	0.0554	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Chrysene	<0.0264		0.415	0.0264	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-03
Date Collected: 02/27/24 19:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-3
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.0491		0.415	0.0491	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Dibenzofuran	<0.0415		0.415	0.0415	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
3,3'-Dichlorobenzidine	<0.0352		0.831	0.0352	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,4-Dichlorophenol	<0.0441		0.415	0.0441	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Diethyl phthalate	<0.0466		0.415	0.0466	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,4-Dimethylphenol	<0.0554		0.415	0.0554	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Dimethyl phthalate	<0.0428		0.415	0.0428	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Di-n-butyl phthalate	<0.0378		0.415	0.0378	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4,6-Dinitro-2-methylphenol	<0.214		2.14	0.214	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,4-Dinitrophenol	<1.04		2.14	1.04	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,4-Dinitrotoluene	<0.0617		0.415	0.0617	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,6-Dinitrotoluene	<0.0529		0.415	0.0529	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Di-n-octyl phthalate	<0.0365		0.415	0.0365	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Fluoranthene	<0.0403		0.415	0.0403	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Fluorene	<0.0453		0.415	0.0453	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Hexachlorobenzene	<0.0491		0.415	0.0491	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Hexachlorobutadiene	<0.0453		0.415	0.0453	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Hexachlorocyclopentadiene	<0.0516		0.415	0.0516	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Hexachloroethane	<0.0352		0.415	0.0352	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Indeno[1,2,3-cd]pyrene	<0.0352		0.415	0.0352	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Isophorone	<0.0415		0.415	0.0415	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2-Methylnaphthalene	<0.0478		0.415	0.0478	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2-Methylphenol	<0.0340		0.415	0.0340	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
3 & 4 Methylphenol	<0.0541		0.415	0.0541	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Naphthalene	<0.0378		0.415	0.0378	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2-Nitroaniline	<0.0567		2.14	0.0567	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
3-Nitroaniline	<0.0579		2.14	0.0579	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4-Nitroaniline	<0.0617		2.14	0.0617	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Nitrobenzene	<0.0327		0.415	0.0327	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2-Nitrophenol	<0.0516		0.415	0.0516	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
4-Nitrophenol	<0.415		2.14	0.415	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
N-Nitrosodi-n-propylamine	<0.0403		0.415	0.0403	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
N-Nitrosodiphenylamine	<0.0415		0.415	0.0415	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Pentachlorophenol	<0.415		2.14	0.415	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Phenanthrene	<0.0340		0.415	0.0340	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Phenol	<0.0428		0.415	0.0428	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Pyrene	<0.0340		0.415	0.0340	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
Pyridine	<0.415		0.831	0.415	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,4,5-Trichlorophenol	<0.0441		0.415	0.0441	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1
2,4,6-Trichlorophenol	<0.0365		0.415	0.0365	mg/Kg	☼	03/06/24 07:30	03/06/24 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*03/06/24 07:30*	*03/06/24 17:42*	*1*
2-Fluorophenol (Surr)	*60*		*18 - 130*	*03/06/24 07:30*	*03/06/24 17:42*	*1*
Nitrobenzene-d5 (Surr)	*67*		*19 - 130*	*03/06/24 07:30*	*03/06/24 17:42*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/06/24 07:30*	*03/06/24 17:42*	*1*
Terphenyl-d14 (Surr)	*74*		*31 - 133*	*03/06/24 07:30*	*03/06/24 17:42*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/06/24 07:30*	*03/06/24 17:42*	*1*

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

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/06/24 13:50	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/06/24 13:50	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/06/24 13:50	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/06/24 13:50	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/06/24 13:50	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/06/24 13:50	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/06/24 13:50	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/06/24 13:50	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/06/24 13:50	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/06/24 13:50	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/06/24 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/06/24 13:50	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1

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

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/06/24 13:50	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/06/24 13:50	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/06/24 13:50	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/06/24 13:50	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/06/24 13:50	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/06/24 13:50	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/06/24 13:50	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/06/24 13:50	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/06/24 13:50	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/06/24 13:50	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/06/24 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*		*03/06/24 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*		*03/06/24 13:50*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*		*03/06/24 13:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*		*03/06/24 13:50*	*1*

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2411		mg/Kg		96	10 - 150
Benzene	0.0500	0.05189		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.05372		mg/Kg		107	70 - 130
Chlorobromomethane	0.0500	0.05276		mg/Kg		106	66 - 130
Dichlorobromomethane	0.0500	0.05473		mg/Kg		109	70 - 130
Bromoform	0.0500	0.04865		mg/Kg		97	68 - 130
Bromomethane	0.0500	0.06027		mg/Kg		121	70 - 130
2-Butanone (MEK)	0.250	0.2437		mg/Kg		97	40 - 150
n-Butylbenzene	0.0500	0.05681		mg/Kg		114	70 - 130
sec-Butylbenzene	0.0500	0.05682		mg/Kg		114	69 - 142

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

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	0.0500	0.05546		mg/Kg		111	67 - 145
Carbon disulfide	0.0500	0.05098		mg/Kg		102	70 - 130
Carbon tetrachloride	0.0500	0.05391		mg/Kg		108	70 - 130
Chlorobenzene	0.0500	0.05165		mg/Kg		103	70 - 130
Chloroethane	0.0500	0.04350		mg/Kg		87	70 - 130
Chloroform	0.0500	0.05366		mg/Kg		107	70 - 130
Chloromethane	0.0500	0.05002		mg/Kg		100	70 - 130
2-Chlorotoluene	0.0500	0.05413		mg/Kg		108	70 - 130
4-Chlorotoluene	0.0500	0.05466		mg/Kg		109	70 - 130
Chlorodibromomethane	0.0500	0.05211		mg/Kg		104	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04645		mg/Kg		93	42 - 145
Ethylene Dibromide	0.0500	0.05240		mg/Kg		105	48 - 150
Dibromomethane	0.0500	0.05248		mg/Kg		105	59 - 142
1,2-Dichlorobenzene	0.0500	0.04969		mg/Kg		99	70 - 130
1,3-Dichlorobenzene	0.0500	0.05252		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0500	0.05285		mg/Kg		106	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04741		mg/Kg		95	54 - 150
Dichlorodifluoromethane	0.0500	0.05772		mg/Kg		115	43 - 131
1,1-Dichloroethane	0.0500	0.05200		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0500	0.05344		mg/Kg		107	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05233		mg/Kg		105	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05150		mg/Kg		103	67 - 130
1,1-Dichloroethene	0.0500	0.05013		mg/Kg		100	69 - 130
1,2-Dichloropropane	0.0500	0.05043		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0500	0.05186		mg/Kg		104	54 - 150
2,2-Dichloropropane	0.0500	0.05404		mg/Kg		108	70 - 130
1,1-Dichloropropene	0.0500	0.05330		mg/Kg		107	70 - 130
cis-1,3-Dichloropropene	0.0500	0.05243		mg/Kg		105	70 - 130
trans-1,3-Dichloropropene	0.0500	0.05352		mg/Kg		107	54 - 150
Ethylbenzene	0.0500	0.05365		mg/Kg		107	70 - 130
Hexachlorobutadiene	0.0500	0.05482		mg/Kg		110	70 - 130
2-Hexanone	0.250	0.2453		mg/Kg		98	30 - 150
Iodomethane	0.0500	0.04999		mg/Kg		100	65 - 138
Isopropylbenzene	0.0500	0.05969		mg/Kg		119	70 - 130
4-Isopropyltoluene	0.0500	0.05668		mg/Kg		113	70 - 130
Methylene Chloride	0.0500	0.05214		mg/Kg		104	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2428		mg/Kg		97	34 - 150
Methyl tert-butyl ether	0.0500	0.05126		mg/Kg		103	70 - 130
Naphthalene	0.0500	0.04713		mg/Kg		94	46 - 150
N-Propylbenzene	0.0500	0.05712		mg/Kg		114	70 - 130
Styrene	0.0500	0.05246		mg/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.04927		mg/Kg		99	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04998		mg/Kg		100	64 - 130
Tetrachloroethene	0.0500	0.05466		mg/Kg		109	70 - 130
Toluene	0.0500	0.05318		mg/Kg		106	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.04965		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.05181		mg/Kg		104	70 - 130
1,1,1-Trichloroethane	0.0500	0.05320		mg/Kg		106	70 - 130
1,1,2-Trichloroethane	0.0500	0.05127		mg/Kg		103	56 - 146

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

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			0.0500	0.05164		mg/Kg		103	70 - 130		
Trichlorofluoromethane			0.0500	0.05123		mg/Kg		102	70 - 130		
1,2,3-Trichloropropane			0.0500	0.04834		mg/Kg		97	64 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05072		mg/Kg		101	70 - 130		
1,2,4-Trimethylbenzene			0.0500	0.05713		mg/Kg		114	70 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05688		mg/Kg		114	70 - 130		
Vinyl acetate			0.100	0.1491		mg/Kg		149	53 - 150		
Vinyl chloride			0.0500	0.04883		mg/Kg		98	70 - 130		
o-Xylene			0.0500	0.05493		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			0.0500	0.05365		mg/Kg		107	70 - 130		
Xylenes, Total			0.100	0.1086		mg/Kg		109	70 - 130		
Hexane			0.0500	0.05317		mg/Kg		106	70 - 130		
n-Heptane			0.0500	0.05058		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 130*
Dibromofluoromethane (Surr)	*108*		*65 - 130*
4-Bromofluorobenzene (Surr)	*95*		*65 - 130*

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
Acetone			0.250	0.2236		mg/Kg		89	10 - 150	8	50
Benzene			0.0500	0.04745		mg/Kg		95	70 - 130	9	30
Bromobenzene			0.0500	0.04801		mg/Kg		96	70 - 130	11	30
Chlorobromomethane			0.0500	0.04725		mg/Kg		95	66 - 130	11	30
Dichlorobromomethane			0.0500	0.04962		mg/Kg		99	70 - 130	10	30
Bromoform			0.0500	0.04518		mg/Kg		90	68 - 130	7	30
Bromomethane			0.0500	0.06152		mg/Kg		123	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2237		mg/Kg		89	40 - 150	9	30
n-Butylbenzene			0.0500	0.05183		mg/Kg		104	70 - 130	9	30
sec-Butylbenzene			0.0500	0.05143		mg/Kg		103	69 - 142	10	30
tert-Butylbenzene			0.0500	0.05037		mg/Kg		101	67 - 145	10	30
Carbon disulfide			0.0500	0.04905		mg/Kg		98	70 - 130	4	30
Carbon tetrachloride			0.0500	0.05007		mg/Kg		100	70 - 130	7	30
Chlorobenzene			0.0500	0.04741		mg/Kg		95	70 - 130	9	30
Chloroethane			0.0500	0.04036		mg/Kg		81	70 - 130	7	30
Chloroform			0.0500	0.04787		mg/Kg		96	70 - 130	11	30
Chloromethane			0.0500	0.04922		mg/Kg		98	70 - 130	2	30
2-Chlorotoluene			0.0500	0.04930		mg/Kg		99	70 - 130	9	30
4-Chlorotoluene			0.0500	0.04905		mg/Kg		98	70 - 130	11	30
Chlorodibromomethane			0.0500	0.04736		mg/Kg		95	64 - 133	10	30
1,2-Dibromo-3-Chloropropane			0.0500	0.04433		mg/Kg		89	42 - 145	5	30
Ethylene Dibromide			0.0500	0.04776		mg/Kg		96	48 - 150	9	30
Dibromomethane			0.0500	0.04743		mg/Kg		95	59 - 142	10	30

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

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
1,2-Dichlorobenzene	0.0500	0.04637		mg/Kg		93	70 - 130	7	30
1,3-Dichlorobenzene	0.0500	0.04841		mg/Kg		97	70 - 130	8	30
1,4-Dichlorobenzene	0.0500	0.04831		mg/Kg		97	70 - 130	9	30
trans-1,4-Dichloro-2-butene	0.0500	0.04431		mg/Kg		89	54 - 150	7	30
Dichlorodifluoromethane	0.0500	0.05668		mg/Kg		113	43 - 131	2	30
1,1-Dichloroethane	0.0500	0.04718		mg/Kg		94	70 - 130	10	30
1,2-Dichloroethane	0.0500	0.04908		mg/Kg		98	68 - 139	8	30
cis-1,2-Dichloroethene	0.0500	0.04801		mg/Kg		96	70 - 130	9	30
trans-1,2-Dichloroethene	0.0500	0.04847		mg/Kg		97	67 - 130	6	30
1,1-Dichloroethene	0.0500	0.04356		mg/Kg		87	69 - 130	14	50
1,2-Dichloropropane	0.0500	0.04655		mg/Kg		93	70 - 130	8	30
1,3-Dichloropropane	0.0500	0.04663		mg/Kg		93	54 - 150	11	30
2,2-Dichloropropane	0.0500	0.04915		mg/Kg		98	70 - 130	9	30
1,1-Dichloropropene	0.0500	0.04867		mg/Kg		97	70 - 130	9	30
cis-1,3-Dichloropropene	0.0500	0.04779		mg/Kg		96	70 - 130	9	30
trans-1,3-Dichloropropene	0.0500	0.04813		mg/Kg		96	54 - 150	11	30
Ethylbenzene	0.0500	0.04873		mg/Kg		97	70 - 130	10	30
Hexachlorobutadiene	0.0500	0.04908		mg/Kg		98	70 - 130	11	30
2-Hexanone	0.250	0.2217		mg/Kg		89	30 - 150	10	30
Iodomethane	0.0500	0.05106		mg/Kg		102	65 - 138	2	30
Isopropylbenzene	0.0500	0.05491		mg/Kg		110	70 - 130	8	30
4-Isopropyltoluene	0.0500	0.05194		mg/Kg		104	70 - 130	9	30
Methylene Chloride	0.0500	0.04710		mg/Kg		94	54 - 149	10	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2208		mg/Kg		88	34 - 150	9	30
Methyl tert-butyl ether	0.0500	0.04613		mg/Kg		92	70 - 130	11	30
Naphthalene	0.0500	0.04339		mg/Kg		87	46 - 150	8	30
N-Propylbenzene	0.0500	0.05139		mg/Kg		103	70 - 130	11	30
Styrene	0.0500	0.04798		mg/Kg		96	70 - 130	9	30
1,1,1,2-Tetrachloroethane	0.0500	0.04523		mg/Kg		90	70 - 130	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.04622		mg/Kg		92	64 - 130	8	30
Tetrachloroethene	0.0500	0.04983		mg/Kg		100	70 - 130	9	30
Toluene	0.0500	0.04831		mg/Kg		97	70 - 130	10	30
1,2,3-Trichlorobenzene	0.0500	0.04510		mg/Kg		90	70 - 130	10	30
1,2,4-Trichlorobenzene	0.0500	0.04654		mg/Kg		93	70 - 130	11	30
1,1,1-Trichloroethane	0.0500	0.04948		mg/Kg		99	70 - 130	7	30
1,1,2-Trichloroethane	0.0500	0.04645		mg/Kg		93	56 - 146	10	30
Trichloroethene	0.0500	0.04795		mg/Kg		96	70 - 130	7	30
Trichlorofluoromethane	0.0500	0.05326		mg/Kg		107	70 - 130	4	30
1,2,3-Trichloropropane	0.0500	0.04418		mg/Kg		88	64 - 130	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05030		mg/Kg		101	70 - 130	1	40
1,2,4-Trimethylbenzene	0.0500	0.05133		mg/Kg		103	70 - 130	11	30
1,3,5-Trimethylbenzene	0.0500	0.05137		mg/Kg		103	70 - 130	10	30
Vinyl acetate	0.100	0.1363		mg/Kg		136	53 - 150	9	30
Vinyl chloride	0.0500	0.04945		mg/Kg		99	70 - 130	1	30
o-Xylene	0.0500	0.05016		mg/Kg		100	70 - 130	9	30
m-Xylene & p-Xylene	0.0500	0.04863		mg/Kg		97	70 - 130	10	30
Xylenes, Total	0.100	0.09879		mg/Kg		99	70 - 130	9	30
Hexane	0.0500	0.04928		mg/Kg		99	70 - 130	8	30

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

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
n-Heptane			0.0500	0.04746		mg/Kg		95	70 - 130	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 130*
Dibromofluoromethane (Surr)	*99*		*65 - 130*
4-Bromofluorobenzene (Surr)	*89*		*65 - 130*

Lab Sample ID: MB 680-826213/9
Matrix: Solid
Analysis Batch: 826213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.01795	J	0.0500	0.0110	mg/Kg			03/07/24 11:45	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/07/24 11:45	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:45	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/07/24 11:45	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/07/24 11:45	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/07/24 11:45	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/07/24 11:45	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/07/24 11:45	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1

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

Lab Sample ID: MB 680-826213/9
Matrix: Solid
Analysis Batch: 826213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/07/24 11:45	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/07/24 11:45	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/07/24 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/07/24 11:45	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:45	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:45	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/07/24 11:45	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/07/24 11:45	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:45	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/07/24 11:45	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/07/24 11:45	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/07/24 11:45	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/07/24 11:45	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/07/24 11:45	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/07/24 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*128*		*65 - 130*		*03/07/24 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 130*		*03/07/24 11:45*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*		*03/07/24 11:45*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*		*03/07/24 11:45*	*1*

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

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2235		mg/Kg		89	10 - 150
Benzene	0.0500	0.05191		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.04992		mg/Kg		100	70 - 130
Chlorobromomethane	0.0500	0.05675		mg/Kg		114	66 - 130
Dichlorobromomethane	0.0500	0.05175		mg/Kg		104	70 - 130
Bromoform	0.0500	0.04289		mg/Kg		86	68 - 130
Bromomethane	0.0500	0.07725	*+	mg/Kg		154	70 - 130
2-Butanone (MEK)	0.250	0.2576		mg/Kg		103	40 - 150
n-Butylbenzene	0.0500	0.05524		mg/Kg		110	70 - 130
sec-Butylbenzene	0.0500	0.05491		mg/Kg		110	69 - 142
tert-Butylbenzene	0.0500	0.05310		mg/Kg		106	67 - 145
Carbon disulfide	0.0500	0.05834		mg/Kg		117	70 - 130
Carbon tetrachloride	0.0500	0.05172		mg/Kg		103	70 - 130
Chlorobenzene	0.0500	0.04984		mg/Kg		100	70 - 130
Chloroethane	0.0500	0.05826		mg/Kg		117	70 - 130
Chloroform	0.0500	0.05039		mg/Kg		101	70 - 130
Chloromethane	0.0500	0.05190		mg/Kg		104	70 - 130
2-Chlorotoluene	0.0500	0.05130		mg/Kg		103	70 - 130
4-Chlorotoluene	0.0500	0.05140		mg/Kg		103	70 - 130
Chlorodibromomethane	0.0500	0.04766		mg/Kg		95	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04144		mg/Kg		83	42 - 145
Ethylene Dibromide	0.0500	0.04819		mg/Kg		96	48 - 150
Dibromomethane	0.0500	0.05088		mg/Kg		102	59 - 142
1,2-Dichlorobenzene	0.0500	0.04967		mg/Kg		99	70 - 130
1,3-Dichlorobenzene	0.0500	0.05147		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0500	0.05095		mg/Kg		102	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04543		mg/Kg		91	54 - 150
Dichlorodifluoromethane	0.0500	0.06134		mg/Kg		123	43 - 131
1,1-Dichloroethane	0.0500	0.05363		mg/Kg		107	70 - 130
1,2-Dichloroethane	0.0500	0.05242		mg/Kg		105	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05158		mg/Kg		103	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04804		mg/Kg		96	67 - 130
1,1-Dichloroethene	0.0500	0.05414		mg/Kg		108	69 - 130
1,2-Dichloropropane	0.0500	0.04935		mg/Kg		99	70 - 130
1,3-Dichloropropane	0.0500	0.04992		mg/Kg		100	54 - 150
2,2-Dichloropropane	0.0500	0.05300		mg/Kg		106	70 - 130
1,1-Dichloropropene	0.0500	0.04800		mg/Kg		96	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04940		mg/Kg		99	70 - 130
trans-1,3-Dichloropropene	0.0500	0.05087		mg/Kg		102	54 - 150
Ethylbenzene	0.0500	0.05164		mg/Kg		103	70 - 130
Hexachlorobutadiene	0.0500	0.05004		mg/Kg		100	70 - 130
2-Hexanone	0.250	0.2667		mg/Kg		107	30 - 150
Iodomethane	0.0500	0.05827		mg/Kg		117	65 - 138
Isopropylbenzene	0.0500	0.05642		mg/Kg		113	70 - 130
4-Isopropyltoluene	0.0500	0.05403		mg/Kg		108	70 - 130
Methylene Chloride	0.0500	0.05477		mg/Kg		110	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2656		mg/Kg		106	34 - 150
Methyl tert-butyl ether	0.0500	0.04900		mg/Kg		98	70 - 130

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

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0500	0.04190		mg/Kg		84	46 - 150
N-Propylbenzene	0.0500	0.05382		mg/Kg		108	70 - 130
Styrene	0.0500	0.05111		mg/Kg		102	70 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.04437		mg/Kg		89	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04623		mg/Kg		92	64 - 130
Tetrachloroethene	0.0500	0.05279		mg/Kg		106	70 - 130
Toluene	0.0500	0.05485		mg/Kg		110	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.04661		mg/Kg		93	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04743		mg/Kg		95	70 - 130
1,1,1-Trichloroethane	0.0500	0.05364		mg/Kg		107	70 - 130
1,1,2-Trichloroethane	0.0500	0.04926		mg/Kg		99	56 - 146
Trichloroethene	0.0500	0.04633		mg/Kg		93	70 - 130
Trichlorofluoromethane	0.0500	0.05322		mg/Kg		106	70 - 130
1,2,3-Trichloropropane	0.0500	0.04452		mg/Kg		89	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05268		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05525		mg/Kg		111	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05360		mg/Kg		107	70 - 130
Vinyl acetate	0.100	0.1083		mg/Kg		108	53 - 150
Vinyl chloride	0.0500	0.05632		mg/Kg		113	70 - 130
o-Xylene	0.0500	0.05278		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.0500	0.05181		mg/Kg		104	70 - 130
Xylenes, Total	0.100	0.1046		mg/Kg		105	70 - 130
Hexane	0.0500	0.05142		mg/Kg		103	70 - 130
n-Heptane	0.0500	0.05290		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*
Dibromofluoromethane (Surr)	*102*		*65 - 130*
4-Bromofluorobenzene (Surr)	*99*		*65 - 130*

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
Acetone	0.250	0.2344		mg/Kg		94	10 - 150	5	50
Benzene	0.0500	0.05091		mg/Kg		102	70 - 130	2	30
Bromobenzene	0.0500	0.05042		mg/Kg		101	70 - 130	1	30
Chlorobromomethane	0.0500	0.06522		mg/Kg		130	66 - 130	14	30
Dichlorobromomethane	0.0500	0.05087		mg/Kg		102	70 - 130	2	30
Bromoform	0.0500	0.04310		mg/Kg		86	68 - 130	0	30
Bromomethane	0.0500	0.09022	*+	mg/Kg		180	70 - 130	15	30
2-Butanone (MEK)	0.250	0.2577		mg/Kg		103	40 - 150	0	30
n-Butylbenzene	0.0500	0.05027		mg/Kg		101	70 - 130	9	30
sec-Butylbenzene	0.0500	0.05211		mg/Kg		104	69 - 142	5	30
tert-Butylbenzene	0.0500	0.05140		mg/Kg		103	67 - 145	3	30
Carbon disulfide	0.0500	0.05784		mg/Kg		116	70 - 130	1	30

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

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
Carbon tetrachloride	0.0500	0.05187		mg/Kg		104	70 - 130	0	30
Chlorobenzene	0.0500	0.04874		mg/Kg		97	70 - 130	2	30
Chloroethane	0.0500	0.07422	*+	mg/Kg		148	70 - 130	24	30
Chloroform	0.0500	0.04917		mg/Kg		98	70 - 130	2	30
Chloromethane	0.0500	0.06173		mg/Kg		123	70 - 130	17	30
2-Chlorotoluene	0.0500	0.05037		mg/Kg		101	70 - 130	2	30
4-Chlorotoluene	0.0500	0.04994		mg/Kg		100	70 - 130	3	30
Chlorodibromomethane	0.0500	0.04752		mg/Kg		95	64 - 133	0	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04136		mg/Kg		83	42 - 145	0	30
Ethylene Dibromide	0.0500	0.04770		mg/Kg		95	48 - 150	1	30
Dibromomethane	0.0500	0.05009		mg/Kg		100	59 - 142	2	30
1,2-Dichlorobenzene	0.0500	0.04834		mg/Kg		97	70 - 130	3	30
1,3-Dichlorobenzene	0.0500	0.04876		mg/Kg		98	70 - 130	5	30
1,4-Dichlorobenzene	0.0500	0.04999		mg/Kg		100	70 - 130	2	30
trans-1,4-Dichloro-2-butene	0.0500	0.04570		mg/Kg		91	54 - 150	1	30
Dichlorodifluoromethane	0.0500	0.07027	*+	mg/Kg		141	43 - 131	14	30
1,1-Dichloroethane	0.0500	0.05218		mg/Kg		104	70 - 130	3	30
1,2-Dichloroethane	0.0500	0.05091		mg/Kg		102	68 - 139	3	30
cis-1,2-Dichloroethene	0.0500	0.05137		mg/Kg		103	70 - 130	0	30
trans-1,2-Dichloroethene	0.0500	0.04619		mg/Kg		92	67 - 130	4	30
1,1-Dichloroethene	0.0500	0.05005		mg/Kg		100	69 - 130	8	50
1,2-Dichloropropane	0.0500	0.04849		mg/Kg		97	70 - 130	2	30
1,3-Dichloropropane	0.0500	0.04850		mg/Kg		97	54 - 150	3	30
2,2-Dichloropropane	0.0500	0.05143		mg/Kg		103	70 - 130	3	30
1,1-Dichloropropene	0.0500	0.04753		mg/Kg		95	70 - 130	1	30
cis-1,3-Dichloropropene	0.0500	0.04783		mg/Kg		96	70 - 130	3	30
trans-1,3-Dichloropropene	0.0500	0.04936		mg/Kg		99	54 - 150	3	30
Ethylbenzene	0.0500	0.05001		mg/Kg		100	70 - 130	3	30
Hexachlorobutadiene	0.0500	0.04785		mg/Kg		96	70 - 130	4	30
2-Hexanone	0.250	0.2613		mg/Kg		105	30 - 150	2	30
Iodomethane	0.0500	0.05952		mg/Kg		119	65 - 138	2	30
Isopropylbenzene	0.0500	0.05485		mg/Kg		110	70 - 130	3	30
4-Isopropyltoluene	0.0500	0.05046		mg/Kg		101	70 - 130	7	30
Methylene Chloride	0.0500	0.05525		mg/Kg		111	54 - 149	1	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2636		mg/Kg		105	34 - 150	1	30
Methyl tert-butyl ether	0.0500	0.04796		mg/Kg		96	70 - 130	2	30
Naphthalene	0.0500	0.04136		mg/Kg		83	46 - 150	1	30
N-Propylbenzene	0.0500	0.05218		mg/Kg		104	70 - 130	3	30
Styrene	0.0500	0.04973		mg/Kg		99	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.04417		mg/Kg		88	70 - 130	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.04532		mg/Kg		91	64 - 130	2	30
Tetrachloroethene	0.0500	0.05285		mg/Kg		106	70 - 130	0	30
Toluene	0.0500	0.05343		mg/Kg		107	70 - 130	3	30
1,2,3-Trichlorobenzene	0.0500	0.04571		mg/Kg		91	70 - 130	2	30
1,2,4-Trichlorobenzene	0.0500	0.04694		mg/Kg		94	70 - 130	1	30
1,1,1-Trichloroethane	0.0500	0.05289		mg/Kg		106	70 - 130	1	30
1,1,2-Trichloroethane	0.0500	0.04851		mg/Kg		97	56 - 146	2	30
Trichloroethene	0.0500	0.04680		mg/Kg		94	70 - 130	1	30
Trichlorofluoromethane	0.0500	0.06041		mg/Kg		121	70 - 130	13	30

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

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
1,2,3-Trichloropropane			0.0500	0.04597		mg/Kg		92	64 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05298		mg/Kg		106	70 - 130	1	40
1,2,4-Trimethylbenzene			0.0500	0.05276		mg/Kg		106	70 - 130	5	30
1,3,5-Trimethylbenzene			0.0500	0.05161		mg/Kg		103	70 - 130	4	30
Vinyl acetate			0.100	0.1051		mg/Kg		105	53 - 150	3	30
Vinyl chloride			0.0500	0.06333		mg/Kg		127	70 - 130	12	30
o-Xylene			0.0500	0.05050		mg/Kg		101	70 - 130	4	30
m-Xylene & p-Xylene			0.0500	0.05058		mg/Kg		101	70 - 130	2	30
Xylenes, Total			0.100	0.1011		mg/Kg		101	70 - 130	3	30
Hexane			0.0500	0.05095		mg/Kg		102	70 - 130	1	30
n-Heptane			0.0500	0.05099		mg/Kg		102	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 130*
Dibromofluoromethane (Surr)	*100*		*65 - 130*
4-Bromofluorobenzene (Surr)	*93*		*65 - 130*

Lab Sample ID: MB 680-826220/9
Matrix: Solid
Analysis Batch: 826220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/07/24 11:40	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/07/24 11:40	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:40	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:40	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/07/24 11:40	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/07/24 11:40	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1

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

Lab Sample ID: MB 680-826220/9
Matrix: Solid
Analysis Batch: 826220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:40	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/07/24 11:40	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/07/24 11:40	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:40	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:40	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/07/24 11:40	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/07/24 11:40	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/07/24 11:40	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/07/24 11:40	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/07/24 11:40	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:40	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:40	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/07/24 11:40	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:40	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:40	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:40	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:40	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/07/24 11:40	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:40	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:40	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:40	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:40	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:40	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/07/24 11:40	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/07/24 11:40	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:40	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:40	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/07/24 11:40	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/07/24 11:40	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:40	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/07/24 11:40	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/07/24 11:40	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*108*		*65 - 130*		*03/07/24 11:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*		*03/07/24 11:40*	*1*
Dibromofluoromethane (Surr)	*113*		*65 - 130*		*03/07/24 11:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*		*03/07/24 11:40*	*1*

Lab Sample ID: LCS 680-826220/5
Matrix: Solid
Analysis Batch: 826220

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2143		mg/Kg		86	10 - 150
Benzene	0.0500	0.04712		mg/Kg		94	70 - 130
Bromobenzene	0.0500	0.04821		mg/Kg		96	70 - 130
Chlorobromomethane	0.0500	0.04779		mg/Kg		96	66 - 130
Dichlorobromomethane	0.0500	0.04917		mg/Kg		98	70 - 130
Bromoform	0.0500	0.04329		mg/Kg		87	68 - 130
Bromomethane	0.0500	0.05797		mg/Kg		116	70 - 130
2-Butanone (MEK)	0.250	0.2176		mg/Kg		87	40 - 150
n-Butylbenzene	0.0500	0.05405		mg/Kg		108	70 - 130
sec-Butylbenzene	0.0500	0.05289		mg/Kg		106	69 - 142
tert-Butylbenzene	0.0500	0.05112		mg/Kg		102	67 - 145
Carbon disulfide	0.0500	0.04801		mg/Kg		96	70 - 130
Carbon tetrachloride	0.0500	0.04839		mg/Kg		97	70 - 130
Chlorobenzene	0.0500	0.04793		mg/Kg		96	70 - 130
Chloroethane	0.0500	0.03967		mg/Kg		79	70 - 130
Chloroform	0.0500	0.04715		mg/Kg		94	70 - 130
Chloromethane	0.0500	0.04905		mg/Kg		98	70 - 130
2-Chlorotoluene	0.0500	0.04948		mg/Kg		99	70 - 130
4-Chlorotoluene	0.0500	0.05027		mg/Kg		101	70 - 130
Chlorodibromomethane	0.0500	0.04608		mg/Kg		92	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04239		mg/Kg		85	42 - 145
Ethylene Dibromide	0.0500	0.04641		mg/Kg		93	48 - 150
Dibromomethane	0.0500	0.04716		mg/Kg		94	59 - 142
1,2-Dichlorobenzene	0.0500	0.04668		mg/Kg		93	70 - 130
1,3-Dichlorobenzene	0.0500	0.04815		mg/Kg		96	70 - 130
1,4-Dichlorobenzene	0.0500	0.04934		mg/Kg		99	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04313		mg/Kg		86	54 - 150
Dichlorodifluoromethane	0.0500	0.05381		mg/Kg		108	43 - 131
1,1-Dichloroethane	0.0500	0.04633		mg/Kg		93	70 - 130
1,2-Dichloroethane	0.0500	0.04815		mg/Kg		96	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04715		mg/Kg		94	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04396		mg/Kg		88	67 - 130
1,1-Dichloroethene	0.0500	0.04497		mg/Kg		90	69 - 130
1,2-Dichloropropane	0.0500	0.04525		mg/Kg		91	70 - 130
1,3-Dichloropropane	0.0500	0.04694		mg/Kg		94	54 - 150
2,2-Dichloropropane	0.0500	0.04870		mg/Kg		97	70 - 130
1,1-Dichloropropene	0.0500	0.04778		mg/Kg		96	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04639		mg/Kg		93	70 - 130
trans-1,3-Dichloropropene	0.0500	0.04815		mg/Kg		96	54 - 150
Ethylbenzene	0.0500	0.04861		mg/Kg		97	70 - 130
Hexachlorobutadiene	0.0500	0.05222		mg/Kg		104	70 - 130

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

Lab Sample ID: LCS 680-826220/5
Matrix: Solid
Analysis Batch: 826220

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	0.250	0.2151		mg/Kg		86	30 - 150
Iodomethane	0.0500	0.05169		mg/Kg		103	65 - 138
Isopropylbenzene	0.0500	0.05468		mg/Kg		109	70 - 130
4-Isopropyltoluene	0.0500	0.05270		mg/Kg		105	70 - 130
Methylene Chloride	0.0500	0.04611		mg/Kg		92	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2138		mg/Kg		86	34 - 150
Methyl tert-butyl ether	0.0500	0.04593		mg/Kg		92	70 - 130
Naphthalene	0.0500	0.04255		mg/Kg		85	46 - 150
N-Propylbenzene	0.0500	0.05270		mg/Kg		105	70 - 130
Styrene	0.0500	0.04848		mg/Kg		97	70 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.04515		mg/Kg		90	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04361		mg/Kg		87	64 - 130
Tetrachloroethene	0.0500	0.05055		mg/Kg		101	70 - 130
Toluene	0.0500	0.04876		mg/Kg		98	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.04529		mg/Kg		91	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04691		mg/Kg		94	70 - 130
1,1,1-Trichloroethane	0.0500	0.04875		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0500	0.04671		mg/Kg		93	56 - 146
Trichloroethene	0.0500	0.04745		mg/Kg		95	70 - 130
Trichlorofluoromethane	0.0500	0.04977		mg/Kg		100	70 - 130
1,2,3-Trichloropropane	0.0500	0.04348		mg/Kg		87	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.04990		mg/Kg		100	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05276		mg/Kg		106	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05310		mg/Kg		106	70 - 130
Vinyl acetate	0.100	0.1235		mg/Kg		124	53 - 150
Vinyl chloride	0.0500	0.04772		mg/Kg		95	70 - 130
o-Xylene	0.0500	0.04968		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.0500	0.04891		mg/Kg		98	70 - 130
Xylenes, Total	0.100	0.09859		mg/Kg		99	70 - 130
Hexane	0.0500	0.04782		mg/Kg		96	70 - 130
n-Heptane	0.0500	0.04563		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 680-826220/6
Matrix: Solid
Analysis Batch: 826220

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
Acetone	0.250	0.2546		mg/Kg		102	10 - 150	17	50
Benzene	0.0500	0.05359		mg/Kg		107	70 - 130	13	30
Bromobenzene	0.0500	0.05491		mg/Kg		110	70 - 130	13	30
Chlorobromomethane	0.0500	0.05355		mg/Kg		107	66 - 130	11	30
Dichlorobromomethane	0.0500	0.05637		mg/Kg		113	70 - 130	14	30

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

Lab Sample ID: LCSD 680-826220/6
Matrix: Solid
Analysis Batch: 826220

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
Bromoform	0.0500	0.05032		mg/Kg		101	68 - 130	15	30
Bromomethane	0.0500	0.06163		mg/Kg		123	70 - 130	6	30
2-Butanone (MEK)	0.250	0.2487		mg/Kg		99	40 - 150	13	30
n-Butylbenzene	0.0500	0.05872		mg/Kg		117	70 - 130	8	30
sec-Butylbenzene	0.0500	0.05831		mg/Kg		117	69 - 142	10	30
tert-Butylbenzene	0.0500	0.05609		mg/Kg		112	67 - 145	9	30
Carbon disulfide	0.0500	0.05502		mg/Kg		110	70 - 130	14	30
Carbon tetrachloride	0.0500	0.05632		mg/Kg		113	70 - 130	15	30
Chlorobenzene	0.0500	0.05343		mg/Kg		107	70 - 130	11	30
Chloroethane	0.0500	0.04117		mg/Kg		82	70 - 130	4	30
Chloroform	0.0500	0.05512		mg/Kg		110	70 - 130	16	30
Chloromethane	0.0500	0.04963		mg/Kg		99	70 - 130	1	30
2-Chlorotoluene	0.0500	0.05533		mg/Kg		111	70 - 130	11	30
4-Chlorotoluene	0.0500	0.05561		mg/Kg		111	70 - 130	10	30
Chlorodibromomethane	0.0500	0.05366		mg/Kg		107	64 - 133	15	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04912		mg/Kg		98	42 - 145	15	30
Ethylene Dibromide	0.0500	0.05487		mg/Kg		110	48 - 150	17	30
Dibromomethane	0.0500	0.05491		mg/Kg		110	59 - 142	15	30
1,2-Dichlorobenzene	0.0500	0.05216		mg/Kg		104	70 - 130	11	30
1,3-Dichlorobenzene	0.0500	0.05403		mg/Kg		108	70 - 130	12	30
1,4-Dichlorobenzene	0.0500	0.05478		mg/Kg		110	70 - 130	10	30
trans-1,4-Dichloro-2-butene	0.0500	0.04844		mg/Kg		97	54 - 150	12	30
Dichlorodifluoromethane	0.0500	0.05364		mg/Kg		107	43 - 131	0	30
1,1-Dichloroethane	0.0500	0.05333		mg/Kg		107	70 - 130	14	30
1,2-Dichloroethane	0.0500	0.05606		mg/Kg		112	68 - 139	15	30
cis-1,2-Dichloroethene	0.0500	0.05391		mg/Kg		108	70 - 130	13	30
trans-1,2-Dichloroethene	0.0500	0.05321		mg/Kg		106	67 - 130	19	30
1,1-Dichloroethene	0.0500	0.05334		mg/Kg		107	69 - 130	17	50
1,2-Dichloropropane	0.0500	0.05210		mg/Kg		104	70 - 130	14	30
1,3-Dichloropropane	0.0500	0.05366		mg/Kg		107	54 - 150	13	30
2,2-Dichloropropane	0.0500	0.05573		mg/Kg		111	70 - 130	13	30
1,1-Dichloropropene	0.0500	0.05428		mg/Kg		109	70 - 130	13	30
cis-1,3-Dichloropropene	0.0500	0.05341		mg/Kg		107	70 - 130	14	30
trans-1,3-Dichloropropene	0.0500	0.05585		mg/Kg		112	54 - 150	15	30
Ethylbenzene	0.0500	0.05532		mg/Kg		111	70 - 130	13	30
Hexachlorobutadiene	0.0500	0.05601		mg/Kg		112	70 - 130	7	30
2-Hexanone	0.250	0.2507		mg/Kg		100	30 - 150	15	30
Iodomethane	0.0500	0.05768		mg/Kg		115	65 - 138	11	30
Isopropylbenzene	0.0500	0.06065		mg/Kg		121	70 - 130	10	30
4-Isopropyltoluene	0.0500	0.05799		mg/Kg		116	70 - 130	10	30
Methylene Chloride	0.0500	0.05370		mg/Kg		107	54 - 149	15	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2503		mg/Kg		100	34 - 150	16	30
Methyl tert-butyl ether	0.0500	0.05323		mg/Kg		106	70 - 130	15	30
Naphthalene	0.0500	0.04905		mg/Kg		98	46 - 150	14	30
N-Propylbenzene	0.0500	0.05771		mg/Kg		115	70 - 130	9	30
Styrene	0.0500	0.05467		mg/Kg		109	70 - 130	12	30
1,1,1,2-Tetrachloroethane	0.0500	0.05252		mg/Kg		105	70 - 130	15	30
1,1,2,2-Tetrachloroethane	0.0500	0.05281		mg/Kg		106	64 - 130	19	30
Tetrachloroethene	0.0500	0.05638		mg/Kg		113	70 - 130	11	30

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

Lab Sample ID: LCSD 680-826220/6
Matrix: Solid
Analysis Batch: 826220

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
Toluene			0.0500	0.05534		mg/Kg		111	70 - 130	13	30
1,2,3-Trichlorobenzene			0.0500	0.05188		mg/Kg		104	70 - 130	14	30
1,2,4-Trichlorobenzene			0.0500	0.05338		mg/Kg		107	70 - 130	13	30
1,1,1-Trichloroethane			0.0500	0.05607		mg/Kg		112	70 - 130	14	30
1,1,2-Trichloroethane			0.0500	0.05349		mg/Kg		107	56 - 146	14	30
Trichloroethene			0.0500	0.05124		mg/Kg		102	70 - 130	8	30
Trichlorofluoromethane			0.0500	0.05125		mg/Kg		103	70 - 130	3	30
1,2,3-Trichloropropane			0.0500	0.04973		mg/Kg		99	64 - 130	13	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05616		mg/Kg		112	70 - 130	12	40
1,2,4-Trimethylbenzene			0.0500	0.05822		mg/Kg		116	70 - 130	10	30
1,3,5-Trimethylbenzene			0.0500	0.05758		mg/Kg		115	70 - 130	8	30
Vinyl acetate			0.100	0.1667	*+	mg/Kg		167	53 - 150	30	30
Vinyl chloride			0.0500	0.04846		mg/Kg		97	70 - 130	2	30
o-Xylene			0.0500	0.05595		mg/Kg		112	70 - 130	12	30
m-Xylene & p-Xylene			0.0500	0.05462		mg/Kg		109	70 - 130	11	30
Xylenes, Total			0.100	0.1106		mg/Kg		111	70 - 130	11	30
Hexane			0.0500	0.05369		mg/Kg		107	70 - 130	12	30
n-Heptane			0.0500	0.05115		mg/Kg		102	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*
Dibromofluoromethane (Surr)	*112*		*65 - 130*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*

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

Lab Sample ID: MB 680-825944/7-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0394		0.317	0.0394	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Acenaphthylene	<0.0346		0.317	0.0346	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Acetophenone	<0.0269		0.317	0.0269	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Anthracene	<0.0240		0.317	0.0240	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Atrazine	<0.0221		0.317	0.0221	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Benzaldehyde	<0.0558		0.317	0.0558	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Benzo[a]anthracene	<0.0260		0.317	0.0260	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Benzo[a]pyrene	<0.0500		0.317	0.0500	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Benzo[b]fluoranthene	<0.0365		0.317	0.0365	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Benzo[g,h,i]perylene	<0.0212		0.317	0.0212	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Benzo[k]fluoranthene	<0.0625		0.317	0.0625	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
1,1'-Biphenyl	<1.63		1.63	1.63	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Bis(2-chloroethoxy)methane	<0.0375		0.317	0.0375	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Bis(2-chloroethyl)ether	<0.0433		0.317	0.0433	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
bis (2-chloroisopropyl) ether	<0.0288		0.317	0.0288	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Bis(2-ethylhexyl) phthalate	<0.0279		0.317	0.0279	mg/Kg		03/06/24 07:30	03/06/24 12:33	1

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

Lab Sample ID: MB 680-825944/7-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0346		0.317	0.0346	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Butyl benzyl phthalate	<0.0250		0.317	0.0250	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Caprolactam	<0.0635		0.317	0.0635	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Carbazole	<0.0288		0.317	0.0288	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
4-Chloroaniline	<0.0500		0.635	0.0500	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
4-Chloro-3-methylphenol	<0.0337		0.317	0.0337	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2-Chloronaphthalene	<0.0337		0.317	0.0337	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2-Chlorophenol	<0.0385		0.317	0.0385	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
4-Chlorophenyl phenyl ether	<0.0423		0.317	0.0423	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Chrysene	<0.0202		0.317	0.0202	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Dibenz(a,h)anthracene	<0.0375		0.317	0.0375	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Dibenzofuran	<0.0317		0.317	0.0317	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
3,3'-Dichlorobenzidine	<0.0269		0.635	0.0269	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2,4-Dichlorophenol	<0.0337		0.317	0.0337	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Diethyl phthalate	<0.0356		0.317	0.0356	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2,4-Dimethylphenol	<0.0423		0.317	0.0423	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Dimethyl phthalate	<0.0327		0.317	0.0327	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Di-n-butyl phthalate	<0.0288		0.317	0.0288	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
4,6-Dinitro-2-methylphenol	<0.163		1.63	0.163	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2,4-Dinitrophenol	<0.798		1.63	0.798	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2,4-Dinitrotoluene	<0.0471		0.317	0.0471	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2,6-Dinitrotoluene	<0.0404		0.317	0.0404	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Di-n-octyl phthalate	<0.0279		0.317	0.0279	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Fluoranthene	<0.0308		0.317	0.0308	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Fluorene	<0.0346		0.317	0.0346	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Hexachlorobenzene	<0.0375		0.317	0.0375	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Hexachlorobutadiene	<0.0346		0.317	0.0346	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Hexachlorocyclopentadiene	<0.0394		0.317	0.0394	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Hexachloroethane	<0.0269		0.317	0.0269	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Indeno[1,2,3-cd]pyrene	<0.0269		0.317	0.0269	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Isophorone	<0.0317		0.317	0.0317	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2-Methylnaphthalene	<0.0365		0.317	0.0365	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2-Methylphenol	<0.0260		0.317	0.0260	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
3 & 4 Methylphenol	<0.0413		0.317	0.0413	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Naphthalene	<0.0288		0.317	0.0288	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2-Nitroaniline	<0.0433		1.63	0.0433	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
3-Nitroaniline	<0.0442		1.63	0.0442	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
4-Nitroaniline	<0.0471		1.63	0.0471	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Nitrobenzene	<0.0250		0.317	0.0250	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2-Nitrophenol	<0.0394		0.317	0.0394	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
4-Nitrophenol	<0.317		1.63	0.317	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
N-Nitrosodi-n-propylamine	<0.0308		0.317	0.0308	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
N-Nitrosodiphenylamine	<0.0317		0.317	0.0317	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Pentachlorophenol	<0.317		1.63	0.317	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Phenanthrene	<0.0260		0.317	0.0260	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Phenol	<0.0327		0.317	0.0327	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Pyrene	<0.0260		0.317	0.0260	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
Pyridine	<0.317		0.635	0.317	mg/Kg		03/06/24 07:30	03/06/24 12:33	1
2,4,5-Trichlorophenol	<0.0337		0.317	0.0337	mg/Kg		03/06/24 07:30	03/06/24 12:33	1

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

Lab Sample ID: MB 680-825944/7-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0279		0.317	0.0279	mg/Kg		03/06/24 07:30	03/06/24 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/06/24 07:30*	*03/06/24 12:33*	*1*
2-Fluorophenol (Surr)	*59*		*18 - 130*	*03/06/24 07:30*	*03/06/24 12:33*	*1*
Nitrobenzene-d5 (Surr)	*62*		*19 - 130*	*03/06/24 07:30*	*03/06/24 12:33*	*1*
Phenol-d5 (Surr)	*61*		*21 - 130*	*03/06/24 07:30*	*03/06/24 12:33*	*1*
Terphenyl-d14 (Surr)	*86*		*31 - 133*	*03/06/24 07:30*	*03/06/24 12:33*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*21 - 132*	*03/06/24 07:30*	*03/06/24 12:33*	*1*

Lab Sample ID: LCS 680-825944/8-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.45	4.663		mg/Kg		72	33 - 130
Acenaphthylene	6.45	4.806		mg/Kg		75	34 - 130
Acetophenone	6.45	4.570		mg/Kg		71	28 - 130
Anthracene	6.45	5.326		mg/Kg		83	39 - 130
Atrazine	6.45	4.899		mg/Kg		76	27 - 130
Benzaldehyde	6.45	4.974		mg/Kg		77	10 - 130
Benzo[a]anthracene	6.45	5.228		mg/Kg		81	40 - 130
Benzo[a]pyrene	6.45	5.332		mg/Kg		83	37 - 131
Benzo[b]fluoranthene	6.45	5.412		mg/Kg		84	35 - 130
Benzo[g,h,i]perylene	6.45	5.532		mg/Kg		86	39 - 130
Benzo[k]fluoranthene	6.45	5.058		mg/Kg		78	35 - 130
1,1'-Biphenyl	6.45	4.831		mg/Kg		75	32 - 130
Bis(2-chloroethoxy)methane	6.45	4.489		mg/Kg		70	29 - 130
Bis(2-chloroethyl)ether	6.45	4.575		mg/Kg		71	18 - 130
bis (2-chloroisopropyl) ether	6.45	4.776		mg/Kg		74	12 - 130
Bis(2-ethylhexyl) phthalate	6.45	5.927		mg/Kg		92	39 - 130
4-Bromophenyl phenyl ether	6.45	4.782		mg/Kg		74	32 - 130
Butyl benzyl phthalate	6.45	5.715		mg/Kg		89	38 - 130
Caprolactam	6.45	5.035		mg/Kg		78	27 - 148
Carbazole	6.45	5.270		mg/Kg		82	43 - 130
4-Chloroaniline	6.45	4.357		mg/Kg		68	10 - 130
4-Chloro-3-methylphenol	6.45	4.936		mg/Kg		77	31 - 130
2-Chloronaphthalene	6.45	4.674		mg/Kg		72	30 - 130
2-Chlorophenol	6.45	4.595		mg/Kg		71	28 - 130
4-Chlorophenyl phenyl ether	6.45	4.755		mg/Kg		74	32 - 130
Chrysene	6.45	5.215		mg/Kg		81	40 - 130
Dibenz(a,h)anthracene	6.45	5.621		mg/Kg		87	37 - 130
Dibenzofuran	6.45	4.767		mg/Kg		74	34 - 130
3,3'-Dichlorobenzidine	6.45	4.292		mg/Kg		67	10 - 130
2,4-Dichlorophenol	6.45	4.791		mg/Kg		74	30 - 130
Diethyl phthalate	6.45	5.255		mg/Kg		82	36 - 130
2,4-Dimethylphenol	6.45	4.492		mg/Kg		70	34 - 130
Dimethyl phthalate	6.45	4.997		mg/Kg		77	36 - 130

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

Lab Sample ID: LCS 680-825944/8-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-butyl phthalate	6.45	5.587		mg/Kg		87	39 - 130
4,6-Dinitro-2-methylphenol	12.9	9.899		mg/Kg		77	22 - 130
2,4-Dinitrophenol	12.9	7.340		mg/Kg		57	10 - 130
2,4-Dinitrotoluene	6.45	4.805		mg/Kg		75	34 - 130
2,6-Dinitrotoluene	6.45	4.949		mg/Kg		77	33 - 130
Di-n-octyl phthalate	6.45	5.599		mg/Kg		87	38 - 131
Fluoranthene	6.45	5.090		mg/Kg		79	38 - 130
Fluorene	6.45	4.909		mg/Kg		76	34 - 130
Hexachlorobenzene	6.45	4.860		mg/Kg		75	28 - 130
Hexachlorobutadiene	6.45	4.103		mg/Kg		64	22 - 130
Hexachlorocyclopentadiene	6.45	3.122		mg/Kg		48	11 - 130
Hexachloroethane	6.45	4.259		mg/Kg		66	21 - 130
Indeno[1,2,3-cd]pyrene	6.45	5.560		mg/Kg		86	40 - 130
Isophorone	6.45	4.795		mg/Kg		74	26 - 130
2-Methylnaphthalene	6.45	4.545		mg/Kg		71	28 - 130
2-Methylphenol	6.45	4.828		mg/Kg		75	30 - 130
3 & 4 Methylphenol	6.45	4.954		mg/Kg		77	31 - 130
Naphthalene	6.45	4.441		mg/Kg		69	25 - 130
2-Nitroaniline	6.45	5.511		mg/Kg		85	26 - 130
3-Nitroaniline	6.45	4.571		mg/Kg		71	10 - 130
4-Nitroaniline	6.45	4.795		mg/Kg		74	25 - 130
Nitrobenzene	6.45	4.604		mg/Kg		71	25 - 130
2-Nitrophenol	6.45	4.454		mg/Kg		69	24 - 130
4-Nitrophenol	12.9	11.10		mg/Kg		86	25 - 130
N-Nitrosodi-n-propylamine	6.45	4.836		mg/Kg		75	24 - 130
N-Nitrosodiphenylamine	6.45	5.287		mg/Kg		82	37 - 130
Pentachlorophenol	12.9	8.154		mg/Kg		63	16 - 135
Phenanthrene	6.45	5.310		mg/Kg		82	38 - 130
Phenol	6.45	4.822		mg/Kg		75	27 - 130
Pyrene	6.45	5.745		mg/Kg		89	40 - 130
Pyridine	12.9	4.940		mg/Kg		38	10 - 130
2,4,5-Trichlorophenol	6.45	5.014		mg/Kg		78	33 - 130
2,4,6-Trichlorophenol	6.45	5.031		mg/Kg		78	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*68*		*25 - 130*
2-Fluorophenol (Surr)	*68*		*18 - 130*
Nitrobenzene-d5 (Surr)	*68*		*19 - 130*
Phenol-d5 (Surr)	*70*		*21 - 130*
Terphenyl-d14 (Surr)	*77*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*

Lab Sample ID: 680-247307-1 MS
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-BS-01
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.0493		8.12	5.626		mg/Kg	☼	69	33 - 130

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

Lab Sample ID: 680-247307-1 MS
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-BS-01
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	<0.0433		8.12	5.964		mg/Kg	☼	73	34 - 130
Acetophenone	<0.0337		8.12	5.173		mg/Kg	☼	64	28 - 130
Anthracene	<0.0301		8.12	6.668		mg/Kg	☼	82	39 - 130
Atrazine	<0.0276		8.12	6.385		mg/Kg	☼	79	27 - 130
Benzaldehyde	<0.0697		8.12	5.447		mg/Kg	☼	67	10 - 130
Benzo[a]anthracene	<0.0325		8.12	6.788		mg/Kg	☼	84	40 - 130
Benzo[a]pyrene	<0.0625		8.12	6.852		mg/Kg	☼	84	37 - 131
Benzo[b]fluoranthene	<0.0457		8.12	6.917		mg/Kg	☼	85	35 - 130
Benzo[g,h,i]perylene	<0.0264		8.12	6.823		mg/Kg	☼	84	39 - 130
Benzo[k]fluoranthene	<0.0781		8.12	6.548		mg/Kg	☼	81	35 - 130
1,1'-Biphenyl	<2.04		8.12	5.732		mg/Kg	☼	71	32 - 130
Bis(2-chloroethoxy)methane	<0.0469		8.12	5.310		mg/Kg	☼	65	29 - 130
Bis(2-chloroethyl)ether	<0.0541		8.12	4.948		mg/Kg	☼	61	18 - 130
bis (2-chloroisopropyl) ether	<0.0361		8.12	5.266		mg/Kg	☼	65	12 - 130
Bis(2-ethylhexyl) phthalate	<0.0349		8.12	7.512		mg/Kg	☼	93	39 - 130
4-Bromophenyl phenyl ether	<0.0433		8.12	5.982		mg/Kg	☼	74	32 - 130
Butyl benzyl phthalate	<0.0313		8.12	7.414		mg/Kg	☼	91	38 - 130
Caprolactam	<0.0793		8.12	6.854		mg/Kg	☼	84	27 - 148
Carbazole	<0.0361		8.12	6.534		mg/Kg	☼	80	43 - 130
4-Chloroaniline	<0.0625		8.12	5.430		mg/Kg	☼	67	10 - 130
4-Chloro-3-methylphenol	<0.0421		8.12	6.446		mg/Kg	☼	79	31 - 130
2-Chloronaphthalene	<0.0421		8.12	5.517		mg/Kg	☼	68	30 - 130
2-Chlorophenol	<0.0481		8.12	5.079		mg/Kg	☼	63	28 - 130
4-Chlorophenyl phenyl ether	<0.0529		8.12	6.127		mg/Kg	☼	75	32 - 130
Chrysene	<0.0252		8.12	6.665		mg/Kg	☼	82	40 - 130
Dibenz(a,h)anthracene	<0.0469		8.12	6.928		mg/Kg	☼	85	37 - 130
Dibenzofuran	<0.0397		8.12	6.042		mg/Kg	☼	74	34 - 130
3,3'-Dichlorobenzidine	<0.0337		8.12	5.211		mg/Kg	☼	64	10 - 130
2,4-Dichlorophenol	<0.0421		8.12	5.867		mg/Kg	☼	72	30 - 130
Diethyl phthalate	<0.0445		8.12	6.895		mg/Kg	☼	85	36 - 130
2,4-Dimethylphenol	<0.0529		8.12	4.601		mg/Kg	☼	57	34 - 130
Dimethyl phthalate	<0.0409		8.12	6.579		mg/Kg	☼	81	36 - 130
Di-n-butyl phthalate	<0.0361		8.12	7.146		mg/Kg	☼	88	39 - 130
4,6-Dinitro-2-methylphenol	<0.204		16.2	13.09		mg/Kg	☼	81	22 - 130
2,4-Dinitrophenol	<0.998		16.2	10.86		mg/Kg	☼	67	10 - 130
2,4-Dinitrotoluene	<0.0589		8.12	6.497		mg/Kg	☼	80	34 - 130
2,6-Dinitrotoluene	<0.0505		8.12	6.518		mg/Kg	☼	80	33 - 130
Di-n-octyl phthalate	<0.0349		8.12	7.489		mg/Kg	☼	92	38 - 131
Fluoranthene	<0.0385		8.12	6.739		mg/Kg	☼	83	38 - 130
Fluorene	<0.0433		8.12	6.351		mg/Kg	☼	78	34 - 130
Hexachlorobenzene	<0.0469		8.12	6.031		mg/Kg	☼	74	28 - 130
Hexachlorobutadiene	<0.0433		8.12	4.541		mg/Kg	☼	56	22 - 130
Hexachlorocyclopentadiene	<0.0493		8.12	3.634		mg/Kg	☼	45	11 - 130
Hexachloroethane	<0.0337		8.12	4.249		mg/Kg	☼	52	21 - 130
Indeno[1,2,3-cd]pyrene	<0.0337		8.12	6.687		mg/Kg	☼	82	40 - 130
Isophorone	<0.0397		8.12	5.901		mg/Kg	☼	73	26 - 130
2-Methylnaphthalene	<0.0457		8.12	5.522		mg/Kg	☼	68	28 - 130
2-Methylphenol	<0.0325		8.12	5.399		mg/Kg	☼	66	30 - 130
3 & 4 Methylphenol	<0.0517		8.12	5.520		mg/Kg	☼	68	31 - 130

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

Lab Sample ID: 680-247307-1 MS
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-BS-01
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	<0.0361		8.12	5.110		mg/Kg	☼	63	25 - 130
2-Nitroaniline	<0.0541		8.12	7.069		mg/Kg	☼	87	26 - 130
3-Nitroaniline	<0.0553		8.12	6.152		mg/Kg	☼	76	10 - 130
4-Nitroaniline	<0.0589		8.12	6.314		mg/Kg	☼	78	25 - 130
Nitrobenzene	<0.0313		8.12	5.175		mg/Kg	☼	64	25 - 130
2-Nitrophenol	<0.0493		8.12	5.165		mg/Kg	☼	64	24 - 130
4-Nitrophenol	<0.397		16.2	14.55		mg/Kg	☼	90	25 - 130
N-Nitrosodi-n-propylamine	<0.0385		8.12	5.647		mg/Kg	☼	70	24 - 130
N-Nitrosodiphenylamine	<0.0397		8.12	6.394		mg/Kg	☼	79	37 - 130
Pentachlorophenol	<0.397		16.2	11.01		mg/Kg	☼	68	16 - 135
Phenanthrene	<0.0325		8.12	6.649		mg/Kg	☼	82	38 - 130
Phenol	<0.0409		8.12	5.404		mg/Kg	☼	67	27 - 130
Pyrene	<0.0325		8.12	7.320		mg/Kg	☼	90	40 - 130
Pyridine	<0.397		16.2	3.619		mg/Kg	☼	22	10 - 130
2,4,5-Trichlorophenol	<0.0421		8.12	6.210		mg/Kg	☼	76	33 - 130
2,4,6-Trichlorophenol	<0.0349		8.12	6.231		mg/Kg	☼	77	31 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*
2-Fluorophenol (Surr)	*60*		*18 - 130*
Nitrobenzene-d5 (Surr)	*62*		*19 - 130*
Phenol-d5 (Surr)	*64*		*21 - 130*
Terphenyl-d14 (Surr)	*79*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*

Lab Sample ID: 680-247307-1 MSD
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-BS-01
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0493		7.97	6.589		mg/Kg	☼	83	33 - 130	16	50
Acenaphthylene	<0.0433		7.97	6.128		mg/Kg	☼	77	34 - 130	3	50
Acetophenone	<0.0337		7.97	5.358		mg/Kg	☼	67	28 - 130	4	50
Anthracene	<0.0301		7.97	6.774		mg/Kg	☼	85	39 - 130	2	50
Atrazine	<0.0276		7.97	6.276		mg/Kg	☼	79	27 - 130	2	50
Benzaldehyde	<0.0697		7.97	5.510		mg/Kg	☼	69	10 - 130	1	50
Benzo[a]anthracene	<0.0325		7.97	6.597		mg/Kg	☼	83	40 - 130	3	50
Benzo[a]pyrene	<0.0625		7.97	6.899		mg/Kg	☼	87	37 - 131	1	50
Benzo[b]fluoranthene	<0.0457		7.97	7.155		mg/Kg	☼	90	35 - 130	3	50
Benzo[g,h,i]perylene	<0.0264		7.97	6.866		mg/Kg	☼	86	39 - 130	1	50
Benzo[k]fluoranthene	<0.0781		7.97	6.335		mg/Kg	☼	80	35 - 130	3	50
1,1'-Biphenyl	<2.04		7.97	5.937		mg/Kg	☼	75	32 - 130	4	50
Bis(2-chloroethoxy)methane	<0.0469		7.97	5.339		mg/Kg	☼	67	29 - 130	1	50
Bis(2-chloroethyl)ether	<0.0541		7.97	5.088		mg/Kg	☼	64	18 - 130	3	50
bis (2-chloroisopropyl) ether	<0.0361		7.97	5.288		mg/Kg	☼	66	12 - 130	0	50
Bis(2-ethylhexyl) phthalate	<0.0349		7.97	7.408		mg/Kg	☼	93	39 - 130	1	50
4-Bromophenyl phenyl ether	<0.0433		7.97	6.071		mg/Kg	☼	76	32 - 130	1	50
Butyl benzyl phthalate	<0.0313		7.97	7.274		mg/Kg	☼	91	38 - 130	2	50

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

Lab Sample ID: 680-247307-1 MSD
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-BS-01
Prep Type: Total/NA
Prep Batch: 825944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Caprolactam	<0.0793		7.97	6.779		mg/Kg	☼	85	27 - 148	1	50
Carbazole	<0.0361		7.97	6.600		mg/Kg	☼	83	43 - 130	1	50
4-Chloroaniline	<0.0625		7.97	5.591		mg/Kg	☼	70	10 - 130	3	50
4-Chloro-3-methylphenol	<0.0421		7.97	6.466		mg/Kg	☼	81	31 - 130	0	50
2-Chloronaphthalene	<0.0421		7.97	5.715		mg/Kg	☼	72	30 - 130	4	50
2-Chlorophenol	<0.0481		7.97	5.087		mg/Kg	☼	64	28 - 130	0	50
4-Chlorophenyl phenyl ether	<0.0529		7.97	6.180		mg/Kg	☼	78	32 - 130	1	50
Chrysene	<0.0252		7.97	6.658		mg/Kg	☼	84	40 - 130	0	50
Dibenz(a,h)anthracene	<0.0469		7.97	6.984		mg/Kg	☼	88	37 - 130	1	50
Dibenzofuran	<0.0397		7.97	6.165		mg/Kg	☼	77	34 - 130	2	50
3,3'-Dichlorobenzidine	<0.0337		7.97	4.990		mg/Kg	☼	63	10 - 130	4	50
2,4-Dichlorophenol	<0.0421		7.97	5.893		mg/Kg	☼	74	30 - 130	0	50
Diethyl phthalate	<0.0445		7.97	6.950		mg/Kg	☼	87	36 - 130	1	50
2,4-Dimethylphenol	<0.0529		7.97	5.201		mg/Kg	☼	65	34 - 130	12	50
Dimethyl phthalate	<0.0409		7.97	6.593		mg/Kg	☼	83	36 - 130	0	50
Di-n-butyl phthalate	<0.0361		7.97	7.245		mg/Kg	☼	91	39 - 130	1	50
4,6-Dinitro-2-methylphenol	<0.204		15.9	13.04		mg/Kg	☼	82	22 - 130	0	50
2,4-Dinitrophenol	<0.998		15.9	11.07		mg/Kg	☼	70	10 - 130	2	50
2,4-Dinitrotoluene	<0.0589		7.97	6.575		mg/Kg	☼	83	34 - 130	1	50
2,6-Dinitrotoluene	<0.0505		7.97	6.464		mg/Kg	☼	81	33 - 130	1	50
Di-n-octyl phthalate	<0.0349		7.97	7.242		mg/Kg	☼	91	38 - 131	3	50
Fluoranthene	<0.0385		7.97	6.783		mg/Kg	☼	85	38 - 130	1	50
Fluorene	<0.0433		7.97	6.466		mg/Kg	☼	81	34 - 130	2	50
Hexachlorobenzene	<0.0469		7.97	6.098		mg/Kg	☼	77	28 - 130	1	50
Hexachlorobutadiene	<0.0433		7.97	4.609		mg/Kg	☼	58	22 - 130	1	50
Hexachlorocyclopentadiene	<0.0493		7.97	3.688		mg/Kg	☼	46	11 - 130	1	50
Hexachloroethane	<0.0337		7.97	4.492		mg/Kg	☼	56	21 - 130	6	50
Indeno[1,2,3-cd]pyrene	<0.0337		7.97	6.615		mg/Kg	☼	83	40 - 130	1	50
Isophorone	<0.0397		7.97	6.009		mg/Kg	☼	75	26 - 130	2	50
2-Methylnaphthalene	<0.0457		7.97	5.547		mg/Kg	☼	70	28 - 130	0	50
2-Methylphenol	<0.0325		7.97	5.480		mg/Kg	☼	69	30 - 130	2	50
3 & 4 Methylphenol	<0.0517		7.97	5.730		mg/Kg	☼	72	31 - 130	4	50
Naphthalene	<0.0361		7.97	5.267		mg/Kg	☼	66	25 - 130	3	50
2-Nitroaniline	<0.0541		7.97	7.364		mg/Kg	☼	92	26 - 130	4	50
3-Nitroaniline	<0.0553		7.97	6.212		mg/Kg	☼	78	10 - 130	1	50
4-Nitroaniline	<0.0589		7.97	6.391		mg/Kg	☼	80	25 - 130	1	50
Nitrobenzene	<0.0313		7.97	5.277		mg/Kg	☼	66	25 - 130	2	50
2-Nitrophenol	<0.0493		7.97	5.282		mg/Kg	☼	66	24 - 130	2	50
4-Nitrophenol	<0.397		15.9	14.81		mg/Kg	☼	93	25 - 130	2	50
N-Nitrosodi-n-propylamine	<0.0385		7.97	5.846		mg/Kg	☼	73	24 - 130	3	50
N-Nitrosodiphenylamine	<0.0397		7.97	6.374		mg/Kg	☼	80	37 - 130	0	50
Pentachlorophenol	<0.397		15.9	10.43		mg/Kg	☼	65	16 - 135	5	50
Phenanthrene	<0.0325		7.97	6.780		mg/Kg	☼	85	38 - 130	2	50
Phenol	<0.0409		7.97	5.484		mg/Kg	☼	69	27 - 130	1	50
Pyrene	<0.0325		7.97	7.138		mg/Kg	☼	90	40 - 130	3	50
Pyridine	<0.397		15.9	3.810		mg/Kg	☼	24	10 - 130	5	50
2,4,5-Trichlorophenol	<0.0421		7.97	6.439		mg/Kg	☼	81	33 - 130	4	50
2,4,6-Trichlorophenol	<0.0349		7.97	6.271		mg/Kg	☼	79	31 - 130	1	50

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

Lab Sample ID: 680-247307-1 MSD
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-BS-01
Prep Type: Total/NA
Prep Batch: 825944

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		25 - 130
2-Fluorophenol (Surr)	61		18 - 130
Nitrobenzene-d5 (Surr)	66		19 - 130
Phenol-d5 (Surr)	66		21 - 130
Terphenyl-d14 (Surr)	78		31 - 133
2,4,6-Tribromophenol (Surr)	74		21 - 132

GC/MS VOA

Prep Batch: 825330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-1	WOTA-BS-01	Total/NA	Solid	5035A	
680-247307-2	WOTA-BS-02	Total/NA	Solid	5035A	
680-247307-3	WOTA-BS-03	Total/NA	Solid	5035A	
680-247307-3 - DL	WOTA-BS-03	Total/NA	Solid	5035A	

Analysis Batch: 826047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-3	WOTA-BS-03	Total/NA	Solid	8260D	825330
MB 680-826047/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-826047/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826047/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 826213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-1	WOTA-BS-01	Total/NA	Solid	8260D	825330
680-247307-2	WOTA-BS-02	Total/NA	Solid	8260D	825330
MB 680-826213/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-826213/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826213/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 826220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-3 - DL	WOTA-BS-03	Total/NA	Solid	8260D	825330
MB 680-826220/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-826220/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826220/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 825944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-1	WOTA-BS-01	Total/NA	Solid	3546	
680-247307-2	WOTA-BS-02	Total/NA	Solid	3546	
680-247307-3	WOTA-BS-03	Total/NA	Solid	3546	
MB 680-825944/7-A	Method Blank	Total/NA	Solid	3546	
LCS 680-825944/8-A	Lab Control Sample	Total/NA	Solid	3546	
680-247307-1 MS	WOTA-BS-01	Total/NA	Solid	3546	
680-247307-1 MSD	WOTA-BS-01	Total/NA	Solid	3546	

Analysis Batch: 826072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-1	WOTA-BS-01	Total/NA	Solid	8270E	825944
680-247307-2	WOTA-BS-02	Total/NA	Solid	8270E	825944
680-247307-3	WOTA-BS-03	Total/NA	Solid	8270E	825944
MB 680-825944/7-A	Method Blank	Total/NA	Solid	8270E	825944
LCS 680-825944/8-A	Lab Control Sample	Total/NA	Solid	8270E	825944
680-247307-1 MS	WOTA-BS-01	Total/NA	Solid	8270E	825944
680-247307-1 MSD	WOTA-BS-01	Total/NA	Solid	8270E	825944

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

General Chemistry

Analysis Batch: 825328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247307-1	WOTA-BS-01	Total/NA	Solid	Moisture	
680-247307-2	WOTA-BS-02	Total/NA	Solid	Moisture	
680-247307-3	WOTA-BS-03	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-01

Lab Sample ID: 680-247307-1

Date Collected: 02/27/24 18:50

Matrix: Solid

Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-BS-01

Lab Sample ID: 680-247307-1

Date Collected: 02/27/24 18:50

Matrix: Solid

Date Received: 02/29/24 10:11

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.776 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		40	5 g	5 g	826213	03/07/24 20:02	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.34 g	1 mL	825944	03/06/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826072	03/06/24 16:25	LA	EET SAV
	Instrument ID: CMSN									

Client Sample ID: WOTA-BS-02

Lab Sample ID: 680-247307-2

Date Collected: 02/27/24 19:00

Matrix: Solid

Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-BS-02

Lab Sample ID: 680-247307-2

Date Collected: 02/27/24 19:00

Matrix: Solid

Date Received: 02/29/24 10:11

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.029 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		40	5 g	5 g	826213	03/07/24 18:56	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.52 g	1 mL	825944	03/06/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826072	03/06/24 17:16	LA	EET SAV
	Instrument ID: CMSN									

Client Sample ID: WOTA-BS-03

Lab Sample ID: 680-247307-3

Date Collected: 02/27/24 19:10

Matrix: Solid

Date Received: 02/29/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Client Sample ID: WOTA-BS-03
Date Collected: 02/27/24 19:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247307-3
Matrix: Solid
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.547 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 16:55	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	5035A	DL		6.849 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D	DL	40	5 g	5 g	826220	03/07/24 14:12	MLL	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.63 g	1 mL	825944	03/06/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826072	03/06/24 17:42	LA	EET SAV
	Instrument ID: CMSN									

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: 680-247307-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247307-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.6
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 6 of 12 Cooler 1 of 3
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days): Standard			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
WOTA-BS-01	2/27	1850	G	S					X	X					
WOTA-BS-02	↓	1900	G	S					X	X					
WOTA-BS-03	↓	1910	G	S					X	X					

680-247307 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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
1		02/28 / 1900			2.29.24 1011	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 2.5/2.5

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247307-1

Login Number: 247307

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	

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/8/2024 8:14:17 AM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247309-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization



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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

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.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247309-7	WOTA-SS-09a (4)	Solid	02/28/24 16:40	02/29/24 10:11
680-247309-8	WOTA-SS-09b (4)	Solid	02/28/24 16:50	02/29/24 10:11
680-247309-9	WOTA-SS-09 (8)	Solid	02/28/24 17:00	02/29/24 10:11
680-247309-10	FB-20240228	Water	02/28/24 17:05	02/29/24 10:11
680-247309-11	EB-20240228	Water	02/28/24 17:10	02/29/24 10:11
680-247309-12	TB-02-20240228	Water	02/28/24 00:00	02/29/24 10:11

Job Narrative
680-247309-1

Comments
Per client request all analysis was canceled for the following samples: WOTA-SS-05 (4), WOTA-SS-05 (8), WOTA-SS-06 (4), WOTA-SS-06 (8), WOTA-SS-07 (4), and WOTA-SS-07 (8).

Per client request the following sample IDs were changed: WOTA-SS-08a (4) was changed to WOTA-SS-09a (4), WOTA-SS-08b (4) was changed to WOTA-SS-09b (4), and WOTA-SS-08 (8) was changed to WOTA-SS-09 (8).

Receipt
The samples were received on 2/29/2024 10:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-825533 recovered outside control limits for the following analyte: Vinyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-825533 recovered outside control limits for the following analyte(s): Chloromethane, 1,2-Dibromo-3-Chloropropane, Dichlorodifluoromethane and Trichlorofluoromethane. These results have been reported and qualified.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-825533 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane, Trichlorofluoromethane and Vinyl acetate. These results have been reported and qualified

Method 8260D: The method blank for 680-825656 contained Acetone and Toluene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-825656 recovered outside control limits for the following analyte: Vinyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WOTA-SS-09 (8) (680-247309-9). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following sample was outside control limits: WOTA-SS-09 (8) (680-247309-9). Evidence of matrix interference is present; therefore, re-analysis was not performed.

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 laboratory control sample (LCS) for preparation batch 680-825490 and analytical batch 680-825694 recovered outside control limits for the following analyte: Caprolactam. Caprolactam has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09a (4)
Date Collected: 02/28/24 16:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-7
Matrix: Solid
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0545**		0.0529	0.0116	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Benzene	<0.00254		0.00529	0.00254	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Bromobenzene	<0.00180		0.00529	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Chlorobromomethane	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Dichlorobromomethane	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Bromoform	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Bromomethane	<0.00254	F1	0.00529	0.00254	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
2-Butanone (MEK)	<0.00973		0.0264	0.00973	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
n-Butylbenzene	<0.00201		0.00529	0.00201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
sec-Butylbenzene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
tert-Butylbenzene	<0.00264		0.00529	0.00264	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Carbon disulfide	<0.00222		0.00529	0.00222	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Carbon tetrachloride	<0.00222		0.00529	0.00222	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Chlorobenzene	<0.00148		0.00529	0.00148	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Chloroethane	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Chloroform	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Chloromethane	<0.00254		0.00529	0.00254	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
2-Chlorotoluene	<0.00243		0.00529	0.00243	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
4-Chlorotoluene	<0.00222		0.00529	0.00222	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Chlorodibromomethane	<0.00222		0.00529	0.00222	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2-Dibromo-3-Chloropropane	<0.00169		0.0106	0.00169	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Ethylene Dibromide	<0.00180		0.00529	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Dibromomethane	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2-Dichlorobenzene	<0.00180		0.00529	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,3-Dichlorobenzene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,4-Dichlorobenzene	<0.00190		0.00529	0.00190	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
trans-1,4-Dichloro-2-butene	<0.00254		0.0106	0.00254	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Dichlorodifluoromethane	<0.00338	F1	0.00529	0.00338	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1-Dichloroethane	<0.00307		0.00529	0.00307	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2-Dichloroethane	<0.00243		0.00529	0.00243	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
cis-1,2-Dichloroethene	<0.00307		0.00529	0.00307	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
trans-1,2-Dichloroethene	<0.00243		0.00529	0.00243	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1-Dichloroethene	<0.00381		0.00529	0.00381	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2-Dichloropropane	<0.00275		0.00529	0.00275	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,3-Dichloropropane	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
2,2-Dichloropropane	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1-Dichloropropene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
cis-1,3-Dichloropropene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
trans-1,3-Dichloropropene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Ethylbenzene	<0.00222		0.00529	0.00222	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Hexachlorobutadiene	<0.00433	F1	0.00529	0.00433	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
2-Hexanone	<0.0201		0.0264	0.0201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Iodomethane	<0.00180		0.00529	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Isopropylbenzene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
4-Isopropyltoluene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Methylene Chloride	<0.00846		0.0106	0.00846	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
4-Methyl-2-pentanone (MIBK)	<0.0190		0.0264	0.0190	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Methyl tert-butyl ether	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Naphthalene	<0.00328		0.00529	0.00328	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1

Client Sample ID: WOTA-SS-09a (4)
Date Collected: 02/28/24 16:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-7
Matrix: Solid
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Styrene	<0.00201		0.00529	0.00201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1,1,2-Tetrachloroethane	<0.00137		0.00529	0.00137	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1,2,2-Tetrachloroethane	<0.00222		0.00529	0.00222	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Tetrachloroethene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Toluene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2,3-Trichlorobenzene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2,4-Trichlorobenzene	<0.00264		0.00529	0.00264	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1,1-Trichloroethane	<0.00275		0.00529	0.00275	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1,2-Trichloroethane	<0.00159		0.00529	0.00159	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Trichloroethene	**0.00369**	**J**	0.00490	0.00177	mg/Kg	☼	03/01/24 09:35	03/07/24 12:50	1
Trichlorofluoromethane	<0.00328		0.00529	0.00328	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2,3-Trichloropropane	<0.00190		0.00529	0.00190	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00307		0.00529	0.00307	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,2,4-Trimethylbenzene	<0.00264		0.00529	0.00264	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
1,3,5-Trimethylbenzene	<0.00254		0.00529	0.00254	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Vinyl acetate	<0.00581	F1	0.0106	0.00581	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Vinyl chloride	<0.00296	F1	0.00529	0.00296	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
o-Xylene	<0.00243		0.00529	0.00243	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
m-Xylene & p-Xylene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Xylenes, Total	<0.00381		0.0106	0.00381	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Isopropyl ether	<0.00159		0.0106	0.00159	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Hexane	<0.00180		0.00529	0.00180	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
n-Heptane	<0.00455	F1	0.00529	0.00455	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1
Ethyl acetate	<0.0106		0.0106	0.0106	mg/Kg	☼	03/01/24 09:35	03/06/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:10*	*1*
Toluene-d8 (Surr)	*124*		*65 - 130*	*03/01/24 09:35*	*03/07/24 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*65 - 130*	*03/01/24 09:35*	*03/07/24 12:50*	*1*
Dibromofluoromethane (Surr)	*113*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:10*	*1*
Dibromofluoromethane (Surr)	*121*		*65 - 130*	*03/01/24 09:35*	*03/07/24 12:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:10*	*1*
4-Bromofluorobenzene (Surr)	*112*		*65 - 130*	*03/01/24 09:35*	*03/07/24 12:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0520		0.418	0.0520	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Acenaphthylene	<0.0456		0.418	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Acetophenone	<0.0355		0.418	0.0355	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Anthracene	<0.0317		0.418	0.0317	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Atrazine	<0.0292		0.418	0.0292	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Benzaldehyde	<0.0735		0.418	0.0735	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Benzo[a]anthracene	<0.0342		0.418	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Benzo[a]pyrene	<0.0659		0.418	0.0659	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Benzo[b]fluoranthene	<0.0482		0.418	0.0482	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Benzo[g,h,i]perylene	<0.0279		0.418	0.0279	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Benzo[k]fluoranthene	<0.0824		0.418	0.0824	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
1,1'-Biphenyl	<2.16		2.16	2.16	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09a (4)
Date Collected: 02/28/24 16:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-7
Matrix: Solid
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.0494		0.418	0.0494	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Bis(2-chloroethyl)ether	<0.0570		0.418	0.0570	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
bis (2-chloroisopropyl) ether	<0.0380		0.418	0.0380	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Bis(2-ethylhexyl) phthalate	<0.0368		0.418	0.0368	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4-Bromophenyl phenyl ether	<0.0456		0.418	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Butyl benzyl phthalate	<0.0330		0.418	0.0330	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Caprolactam	<0.0837		0.418	0.0837	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Carbazole	<0.0380		0.418	0.0380	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4-Chloroaniline	<0.0659		0.837	0.0659	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4-Chloro-3-methylphenol	<0.0444		0.418	0.0444	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2-Chloronaphthalene	<0.0444		0.418	0.0444	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2-Chlorophenol	<0.0507		0.418	0.0507	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4-Chlorophenyl phenyl ether	<0.0558		0.418	0.0558	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Chrysene	<0.0266		0.418	0.0266	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Dibenz(a,h)anthracene	<0.0494		0.418	0.0494	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Dibenzofuran	<0.0418		0.418	0.0418	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
3,3'-Dichlorobenzidine	<0.0355		0.837	0.0355	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,4-Dichlorophenol	<0.0444		0.418	0.0444	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Diethyl phthalate	<0.0469		0.418	0.0469	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,4-Dimethylphenol	<0.0558		0.418	0.0558	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Dimethyl phthalate	<0.0431		0.418	0.0431	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Di-n-butyl phthalate	<0.0380		0.418	0.0380	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4,6-Dinitro-2-methylphenol	<0.216		2.16	0.216	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,4-Dinitrophenol	<1.05		2.16	1.05	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,4-Dinitrotoluene	<0.0621		0.418	0.0621	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,6-Dinitrotoluene	<0.0532		0.418	0.0532	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Di-n-octyl phthalate	<0.0368		0.418	0.0368	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Fluoranthene	<0.0406		0.418	0.0406	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Fluorene	<0.0456		0.418	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Hexachlorobenzene	<0.0494		0.418	0.0494	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Hexachlorobutadiene	<0.0456		0.418	0.0456	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Hexachlorocyclopentadiene	<0.0520		0.418	0.0520	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Hexachloroethane	<0.0355		0.418	0.0355	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Indeno[1,2,3-cd]pyrene	<0.0355		0.418	0.0355	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Isophorone	<0.0418		0.418	0.0418	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2-Methylnaphthalene	<0.0482		0.418	0.0482	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2-Methylphenol	<0.0342		0.418	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
3 & 4 Methylphenol	<0.0545		0.418	0.0545	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Naphthalene	<0.0380		0.418	0.0380	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2-Nitroaniline	<0.0570		2.16	0.0570	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
3-Nitroaniline	<0.0583		2.16	0.0583	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4-Nitroaniline	<0.0621		2.16	0.0621	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Nitrobenzene	<0.0330		0.418	0.0330	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2-Nitrophenol	<0.0520		0.418	0.0520	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
4-Nitrophenol	<0.418		2.16	0.418	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
N-Nitrosodi-n-propylamine	<0.0406		0.418	0.0406	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
N-Nitrosodiphenylamine	<0.0418		0.418	0.0418	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Pentachlorophenol	<0.418		2.16	0.418	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Phenanthrene	<0.0342		0.418	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1

Client Sample ID: WOTA-SS-09a (4)

Lab Sample ID: 680-247309-7
Date Collected: 02/28/24 16:40
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.0431		0.418	0.0431	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Pyrene	<0.0342		0.418	0.0342	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
Pyridine	<0.418		0.837	0.418	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,4,5-Trichlorophenol	<0.0444		0.418	0.0444	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1
2,4,6-Trichlorophenol	<0.0368		0.418	0.0368	mg/Kg	☼	03/05/24 07:30	03/06/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*25 - 130*	*03/05/24 07:30*	*03/06/24 16:50*	*1*
2-Fluorophenol (Surr)	*64*		*18 - 130*	*03/05/24 07:30*	*03/06/24 16:50*	*1*
Nitrobenzene-d5 (Surr)	*62*		*19 - 130*	*03/05/24 07:30*	*03/06/24 16:50*	*1*
Phenol-d5 (Surr)	*65*		*21 - 130*	*03/05/24 07:30*	*03/06/24 16:50*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/05/24 07:30*	*03/06/24 16:50*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*21 - 132*	*03/05/24 07:30*	*03/06/24 16:50*	*1*

Client Sample ID: WOTA-SS-09b (4)

Lab Sample ID: 680-247309-8
Date Collected: 02/28/24 16:50
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0136**	**J**	0.0437	0.00961	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Benzene	<0.00210		0.00437	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Bromobenzene	<0.00149		0.00437	0.00149	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Chlorobromomethane	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Dichlorobromomethane	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Bromoform	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Bromomethane	<0.00210		0.00437	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
2-Butanone (MEK)	<0.00804		0.0218	0.00804	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
n-Butylbenzene	<0.00166		0.00437	0.00166	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
sec-Butylbenzene	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
tert-Butylbenzene	<0.00218		0.00437	0.00218	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Carbon disulfide	<0.00184		0.00437	0.00184	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Carbon tetrachloride	<0.00184		0.00437	0.00184	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Chlorobenzene	<0.00122		0.00437	0.00122	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Chloroethane	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Chloroform	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Chloromethane	<0.00210		0.00437	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
2-Chlorotoluene	<0.00201		0.00437	0.00201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
4-Chlorotoluene	<0.00184		0.00437	0.00184	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Chlorodibromomethane	<0.00184		0.00437	0.00184	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2-Dibromo-3-Chloropropane	<0.00140		0.00874	0.00140	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Ethylene Dibromide	<0.00149		0.00437	0.00149	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Dibromomethane	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2-Dichlorobenzene	<0.00149		0.00437	0.00149	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,3-Dichlorobenzene	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,4-Dichlorobenzene	<0.00157		0.00437	0.00157	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
trans-1,4-Dichloro-2-butene	<0.00210		0.00874	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Dichlorodifluoromethane	<0.00280		0.00437	0.00280	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1-Dichloroethane	<0.00253		0.00437	0.00253	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2-Dichloroethane	<0.00201		0.00437	0.00201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1

Client Sample ID: WOTA-SS-09b (4)
Date Collected: 02/28/24 16:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-8
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.00453**		0.00437	0.00253	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
trans-1,2-Dichloroethene	<0.00201		0.00437	0.00201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1-Dichloroethene	<0.00315		0.00437	0.00315	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2-Dichloropropane	<0.00227		0.00437	0.00227	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,3-Dichloropropane	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
2,2-Dichloropropane	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1-Dichloropropene	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
cis-1,3-Dichloropropene	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
trans-1,3-Dichloropropene	<0.00227		0.00437	0.00227	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Ethylbenzene	<0.00184		0.00437	0.00184	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Hexachlorobutadiene	<0.00358		0.00437	0.00358	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
2-Hexanone	<0.0166		0.0218	0.0166	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Iodomethane	<0.00149		0.00437	0.00149	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Isopropylbenzene	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
4-Isopropyltoluene	<0.00227		0.00437	0.00227	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Methylene Chloride	<0.00699		0.00874	0.00699	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
4-Methyl-2-pentanone (MIBK)	<0.0157		0.0218	0.0157	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Methyl tert-butyl ether	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Naphthalene	<0.00271		0.00437	0.00271	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
N-Propylbenzene	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Styrene	<0.00166		0.00437	0.00166	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1,1,2-Tetrachloroethane	<0.00114		0.00437	0.00114	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1,2,2-Tetrachloroethane	<0.00184		0.00437	0.00184	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Tetrachloroethene	<0.00227		0.00437	0.00227	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Toluene	<0.00227		0.00437	0.00227	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2,3-Trichlorobenzene	<0.00175		0.00437	0.00175	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2,4-Trichlorobenzene	<0.00218		0.00437	0.00218	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1,1-Trichloroethane	<0.00227		0.00437	0.00227	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1,2-Trichloroethane	<0.00131		0.00437	0.00131	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Trichloroethene	**0.0160**		0.00437	0.00157	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Trichlorofluoromethane	<0.00271		0.00437	0.00271	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2,3-Trichloropropane	<0.00157		0.00437	0.00157	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00253		0.00437	0.00253	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,2,4-Trimethylbenzene	<0.00218		0.00437	0.00218	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
1,3,5-Trimethylbenzene	<0.00210		0.00437	0.00210	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Vinyl acetate	<0.00481		0.00874	0.00481	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Vinyl chloride	<0.00245		0.00437	0.00245	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
o-Xylene	<0.00201		0.00437	0.00201	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
m-Xylene & p-Xylene	<0.00192		0.00437	0.00192	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Xylenes, Total	<0.00315		0.00874	0.00315	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Isopropyl ether	<0.00131		0.00874	0.00131	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Hexane	<0.00149		0.00437	0.00149	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
n-Heptane	<0.00376		0.00437	0.00376	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1
Ethyl acetate	<0.00874		0.00874	0.00874	mg/Kg	☼	03/01/24 09:35	03/06/24 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:32*	*1*
Dibromofluoromethane (Surr)	*114*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:32*	*1*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:32*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09b (4)
Date Collected: 02/28/24 16:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-8
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0471		0.379	0.0471	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Acenaphthylene	<0.0414		0.379	0.0414	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Acetophenone	<0.0322		0.379	0.0322	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Anthracene	<0.0287		0.379	0.0287	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Atrazine	<0.0264		0.379	0.0264	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Benzaldehyde	<0.0667		0.379	0.0667	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Benzo[a]anthracene	<0.0310		0.379	0.0310	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Benzo[a]pyrene	<0.0598		0.379	0.0598	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Benzo[b]fluoranthene	<0.0437		0.379	0.0437	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Benzo[g,h,i]perylene	<0.0253		0.379	0.0253	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Benzo[k]fluoranthene	<0.0747		0.379	0.0747	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
1,1'-Biphenyl	<1.95		1.95	1.95	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Bis(2-chloroethoxy)methane	<0.0448		0.379	0.0448	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Bis(2-chloroethyl)ether	<0.0517		0.379	0.0517	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
bis (2-chloroisopropyl) ether	<0.0345		0.379	0.0345	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Bis(2-ethylhexyl) phthalate	<0.0333		0.379	0.0333	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4-Bromophenyl phenyl ether	<0.0414		0.379	0.0414	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Butyl benzyl phthalate	<0.0299		0.379	0.0299	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Caprolactam	<0.0759		0.379	0.0759	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Carbazole	<0.0345		0.379	0.0345	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4-Chloroaniline	<0.0598		0.759	0.0598	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4-Chloro-3-methylphenol	<0.0402		0.379	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2-Chloronaphthalene	<0.0402		0.379	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2-Chlorophenol	<0.0460		0.379	0.0460	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4-Chlorophenyl phenyl ether	<0.0506		0.379	0.0506	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Chrysene	<0.0241		0.379	0.0241	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Dibenz(a,h)anthracene	<0.0448		0.379	0.0448	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Dibenzofuran	<0.0379		0.379	0.0379	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
3,3'-Dichlorobenzidine	<0.0322		0.759	0.0322	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,4-Dichlorophenol	<0.0402		0.379	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Diethyl phthalate	<0.0425		0.379	0.0425	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,4-Dimethylphenol	<0.0506		0.379	0.0506	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Dimethyl phthalate	<0.0391		0.379	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Di-n-butyl phthalate	<0.0345		0.379	0.0345	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4,6-Dinitro-2-methylphenol	<0.195		1.95	0.195	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,4-Dinitrophenol	<0.954		1.95	0.954	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,4-Dinitrotoluene	<0.0563		0.379	0.0563	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,6-Dinitrotoluene	<0.0483		0.379	0.0483	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Di-n-octyl phthalate	<0.0333		0.379	0.0333	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Fluoranthene	<0.0368		0.379	0.0368	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Fluorene	<0.0414		0.379	0.0414	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Hexachlorobenzene	<0.0448		0.379	0.0448	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Hexachlorobutadiene	<0.0414		0.379	0.0414	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Hexachlorocyclopentadiene	<0.0471		0.379	0.0471	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Hexachloroethane	<0.0322		0.379	0.0322	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Indeno[1,2,3-cd]pyrene	<0.0322		0.379	0.0322	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Isophorone	<0.0379		0.379	0.0379	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2-Methylnaphthalene	<0.0437		0.379	0.0437	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2-Methylphenol	<0.0310		0.379	0.0310	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1

Client Sample ID: WOTA-SS-09b (4)

Lab Sample ID: 680-247309-8

Date Collected: 02/28/24 16:50
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.0494		0.379	0.0494	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Naphthalene	<0.0345		0.379	0.0345	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2-Nitroaniline	<0.0517		1.95	0.0517	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
3-Nitroaniline	<0.0529		1.95	0.0529	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4-Nitroaniline	<0.0563		1.95	0.0563	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Nitrobenzene	<0.0299		0.379	0.0299	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2-Nitrophenol	<0.0471		0.379	0.0471	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
4-Nitrophenol	<0.379		1.95	0.379	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
N-Nitrosodi-n-propylamine	<0.0368		0.379	0.0368	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
N-Nitrosodiphenylamine	<0.0379		0.379	0.0379	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Pentachlorophenol	<0.379		1.95	0.379	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Phenanthrene	<0.0310		0.379	0.0310	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Phenol	<0.0391		0.379	0.0391	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Pyrene	<0.0310		0.379	0.0310	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
Pyridine	<0.379		0.759	0.379	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,4,5-Trichlorophenol	<0.0402		0.379	0.0402	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1
2,4,6-Trichlorophenol	<0.0333		0.379	0.0333	mg/Kg	☼	03/05/24 07:30	03/06/24 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/05/24 07:30*	*03/06/24 21:57*	*1*
2-Fluorophenol (Surr)	*57*		*18 - 130*	*03/05/24 07:30*	*03/06/24 21:57*	*1*
Nitrobenzene-d5 (Surr)	*61*		*19 - 130*	*03/05/24 07:30*	*03/06/24 21:57*	*1*
Phenol-d5 (Surr)	*58*		*21 - 130*	*03/05/24 07:30*	*03/06/24 21:57*	*1*
Terphenyl-d14 (Surr)	*76*		*31 - 133*	*03/05/24 07:30*	*03/06/24 21:57*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*21 - 132*	*03/05/24 07:30*	*03/06/24 21:57*	*1*

Client Sample ID: WOTA-SS-09 (8)

Lab Sample ID: 680-247309-9

Date Collected: 02/28/24 17:00
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0260**	**J**	0.0435	0.00956	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Benzene	<0.00209		0.00435	0.00209	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Bromobenzene	<0.00148		0.00435	0.00148	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Chlorobromomethane	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Dichlorobromomethane	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Bromoform	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Bromomethane	<0.00209		0.00435	0.00209	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
2-Butanone (MEK)	<0.00800		0.0217	0.00800	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
n-Butylbenzene	<0.00165		0.00435	0.00165	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
sec-Butylbenzene	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
tert-Butylbenzene	<0.00217		0.00435	0.00217	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Carbon disulfide	<0.00183		0.00435	0.00183	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Carbon tetrachloride	<0.00183		0.00435	0.00183	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Chlorobenzene	<0.00122		0.00435	0.00122	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Chloroethane	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Chloroform	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Chloromethane	<0.00209		0.00435	0.00209	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
2-Chlorotoluene	<0.00200		0.00435	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09 (8)
Date Collected: 02/28/24 17:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-9
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.00183		0.00435	0.00183	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Chlorodibromomethane	<0.00183		0.00435	0.00183	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2-Dibromo-3-Chloropropane	<0.00139		0.00869	0.00139	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Ethylene Dibromide	<0.00148		0.00435	0.00148	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Dibromomethane	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2-Dichlorobenzene	**0.00211**	**J**	0.00435	0.00148	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,3-Dichlorobenzene	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,4-Dichlorobenzene	<0.00156		0.00435	0.00156	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
trans-1,4-Dichloro-2-butene	<0.00209		0.00869	0.00209	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Dichlorodifluoromethane	<0.00278		0.00435	0.00278	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1-Dichloroethane	<0.00252		0.00435	0.00252	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2-Dichloroethane	<0.00200		0.00435	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
cis-1,2-Dichloroethene	**0.00604**		0.00435	0.00252	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
trans-1,2-Dichloroethene	<0.00200		0.00435	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1-Dichloroethene	<0.00313		0.00435	0.00313	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2-Dichloropropane	<0.00226		0.00435	0.00226	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,3-Dichloropropane	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
2,2-Dichloropropane	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1-Dichloropropene	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
cis-1,3-Dichloropropene	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
trans-1,3-Dichloropropene	<0.00226		0.00435	0.00226	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Ethylbenzene	<0.00183		0.00435	0.00183	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Hexachlorobutadiene	<0.00356		0.00435	0.00356	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
2-Hexanone	<0.0165		0.0217	0.0165	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Iodomethane	<0.00148		0.00435	0.00148	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Isopropylbenzene	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
4-Isopropyltoluene	<0.00226		0.00435	0.00226	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Methylene Chloride	<0.00695		0.00869	0.00695	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
4-Methyl-2-pentanone (MIBK)	<0.0156		0.0217	0.0156	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Methyl tert-butyl ether	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Naphthalene	**0.00294**	**J**	0.00435	0.00269	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
N-Propylbenzene	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Styrene	<0.00165		0.00435	0.00165	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1,1,2-Tetrachloroethane	<0.00113		0.00435	0.00113	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1,2,2-Tetrachloroethane	<0.00183		0.00435	0.00183	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Tetrachloroethene	<0.00226		0.00435	0.00226	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Toluene	<0.00226		0.00435	0.00226	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2,3-Trichlorobenzene	<0.00174		0.00435	0.00174	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2,4-Trichlorobenzene	<0.00217		0.00435	0.00217	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1,1-Trichloroethane	<0.00226		0.00435	0.00226	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1,2-Trichloroethane	<0.00130		0.00435	0.00130	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Trichloroethene	**3.26**		0.174	0.0625	mg/Kg	☼	03/01/24 09:35	03/07/24 17:50	40
Trichlorofluoromethane	<0.00269		0.00435	0.00269	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2,3-Trichloropropane	<0.00156		0.00435	0.00156	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00252		0.00435	0.00252	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,2,4-Trimethylbenzene	<0.00217		0.00435	0.00217	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
1,3,5-Trimethylbenzene	<0.00209		0.00435	0.00209	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Vinyl acetate	<0.00478		0.00869	0.00478	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Vinyl chloride	<0.00243		0.00435	0.00243	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1

Client Sample ID: WOTA-SS-09 (8)
Date Collected: 02/28/24 17:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-9
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200		0.00435	0.00200	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
m-Xylene & p-Xylene	<0.00191		0.00435	0.00191	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Xylenes, Total	<0.00313		0.00869	0.00313	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Isopropyl ether	<0.00130		0.00869	0.00130	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Hexane	<0.00148		0.00435	0.00148	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
n-Heptane	<0.00374		0.00435	0.00374	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1
Ethyl acetate	<0.00869		0.00869	0.00869	mg/Kg	☼	03/01/24 09:35	03/06/24 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:54*	*1*
Toluene-d8 (Surr)	*131*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 17:50*	*40*
1,2-Dichloroethane-d4 (Surr)	*115*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*65 - 130*	*03/01/24 09:35*	*03/07/24 17:50*	*40*
Dibromofluoromethane (Surr)	*113*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:54*	*1*
Dibromofluoromethane (Surr)	*132*	*S1+*	*65 - 130*	*03/01/24 09:35*	*03/07/24 17:50*	*40*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*	*03/01/24 09:35*	*03/06/24 20:54*	*1*
4-Bromofluorobenzene (Surr)	*109*		*65 - 130*	*03/01/24 09:35*	*03/07/24 17:50*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0469		0.377	0.0469	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Acenaphthylene	<0.0411		0.377	0.0411	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Acetophenone	<0.0320		0.377	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Anthracene	<0.0286		0.377	0.0286	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Atrazine	<0.0263		0.377	0.0263	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Benzaldehyde	<0.0663		0.377	0.0663	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Benzo[a]anthracene	<0.0309		0.377	0.0309	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Benzo[a]pyrene	<0.0594		0.377	0.0594	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Benzo[b]fluoranthene	<0.0434		0.377	0.0434	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Benzo[g,h,i]perylene	<0.0251		0.377	0.0251	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Benzo[k]fluoranthene	<0.0743		0.377	0.0743	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
1,1'-Biphenyl	<1.94		1.94	1.94	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Bis(2-chloroethoxy)methane	<0.0446		0.377	0.0446	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Bis(2-chloroethyl)ether	<0.0514		0.377	0.0514	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
bis (2-chloroisopropyl) ether	<0.0343		0.377	0.0343	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Bis(2-ethylhexyl) phthalate	<0.0331		0.377	0.0331	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4-Bromophenyl phenyl ether	<0.0411		0.377	0.0411	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Butyl benzyl phthalate	<0.0297		0.377	0.0297	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Caprolactam	<0.0754		0.377	0.0754	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Carbazole	<0.0343		0.377	0.0343	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4-Chloroaniline	<0.0594		0.754	0.0594	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4-Chloro-3-methylphenol	<0.0400		0.377	0.0400	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2-Chloronaphthalene	<0.0400		0.377	0.0400	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2-Chlorophenol	<0.0457		0.377	0.0457	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4-Chlorophenyl phenyl ether	<0.0503		0.377	0.0503	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Chrysene	<0.0240		0.377	0.0240	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Dibenz(a,h)anthracene	<0.0446		0.377	0.0446	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Dibenzofuran	<0.0377		0.377	0.0377	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
3,3'-Dichlorobenzidine	<0.0320		0.754	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,4-Dichlorophenol	<0.0400		0.377	0.0400	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09 (8)
Date Collected: 02/28/24 17:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-9
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.0423		0.377	0.0423	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,4-Dimethylphenol	<0.0503		0.377	0.0503	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Dimethyl phthalate	<0.0389		0.377	0.0389	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Di-n-butyl phthalate	<0.0343		0.377	0.0343	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4,6-Dinitro-2-methylphenol	<0.194		1.94	0.194	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,4-Dinitrophenol	<0.949		1.94	0.949	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,4-Dinitrotoluene	<0.0560		0.377	0.0560	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,6-Dinitrotoluene	<0.0480		0.377	0.0480	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Di-n-octyl phthalate	<0.0331		0.377	0.0331	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Fluoranthene	<0.0366		0.377	0.0366	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Fluorene	<0.0411		0.377	0.0411	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Hexachlorobenzene	<0.0446		0.377	0.0446	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Hexachlorobutadiene	<0.0411		0.377	0.0411	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Hexachlorocyclopentadiene	<0.0469		0.377	0.0469	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Hexachloroethane	<0.0320		0.377	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Indeno[1,2,3-cd]pyrene	<0.0320		0.377	0.0320	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Isophorone	<0.0377		0.377	0.0377	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2-Methylnaphthalene	<0.0434		0.377	0.0434	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2-Methylphenol	<0.0309		0.377	0.0309	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
3 & 4 Methylphenol	<0.0491		0.377	0.0491	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Naphthalene	<0.0343		0.377	0.0343	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2-Nitroaniline	<0.0514		1.94	0.0514	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
3-Nitroaniline	<0.0526		1.94	0.0526	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4-Nitroaniline	<0.0560		1.94	0.0560	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Nitrobenzene	<0.0297		0.377	0.0297	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2-Nitrophenol	<0.0469		0.377	0.0469	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
4-Nitrophenol	<0.377		1.94	0.377	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
N-Nitrosodi-n-propylamine	<0.0366		0.377	0.0366	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
N-Nitrosodiphenylamine	<0.0377		0.377	0.0377	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Pentachlorophenol	<0.377		1.94	0.377	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Phenanthrene	<0.0309		0.377	0.0309	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Phenol	<0.0389		0.377	0.0389	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Pyrene	<0.0309		0.377	0.0309	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
Pyridine	<0.377		0.754	0.377	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,4,5-Trichlorophenol	<0.0400		0.377	0.0400	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1
2,4,6-Trichlorophenol	<0.0331		0.377	0.0331	mg/Kg	☼	03/05/24 07:30	03/06/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/05/24 07:30*	*03/06/24 22:23*	*1*
2-Fluorophenol (Surr)	*64*		*18 - 130*	*03/05/24 07:30*	*03/06/24 22:23*	*1*
Nitrobenzene-d5 (Surr)	*68*		*19 - 130*	*03/05/24 07:30*	*03/06/24 22:23*	*1*
Phenol-d5 (Surr)	*64*		*21 - 130*	*03/05/24 07:30*	*03/06/24 22:23*	*1*
Terphenyl-d14 (Surr)	*76*		*31 - 133*	*03/05/24 07:30*	*03/06/24 22:23*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*	*03/05/24 07:30*	*03/06/24 22:23*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: FB-20240228
Date Collected: 02/28/24 17:05
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/03/24 15:18	1
Benzene	<0.270		1.00	0.270	ug/L			03/03/24 15:18	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/03/24 15:18	1
Bromoform	<0.590		1.00	0.590	ug/L			03/03/24 15:18	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/03/24 15:18	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/03/24 15:18	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/03/24 15:18	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/03/24 15:18	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/03/24 15:18	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/03/24 15:18	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/03/24 15:18	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/03/24 15:18	1
Chloroform	<0.270		1.00	0.270	ug/L			03/03/24 15:18	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/03/24 15:18	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/03/24 15:18	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/03/24 15:18	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/03/24 15:18	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/03/24 15:18	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/03/24 15:18	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/03/24 15:18	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 15:18	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 15:18	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 15:18	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/03/24 15:18	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			03/03/24 15:18	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/03/24 15:18	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/03/24 15:18	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/03/24 15:18	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/03/24 15:18	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/03/24 15:18	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/03/24 15:18	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/03/24 15:18	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/03/24 15:18	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/03/24 15:18	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/03/24 15:18	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/03/24 15:18	1
Hexane	<0.650		5.00	0.650	ug/L			03/03/24 15:18	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/03/24 15:18	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/03/24 15:18	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/03/24 15:18	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/03/24 15:18	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/03/24 15:18	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/03/24 15:18	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/03/24 15:18	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/03/24 15:18	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/03/24 15:18	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/03/24 15:18	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/03/24 15:18	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/03/24 15:18	1

Client Sample ID: FB-20240228

Date Collected: 02/28/24 17:05
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/03/24 15:18	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/03/24 15:18	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/03/24 15:18	1
Styrene	<0.270		1.00	0.270	ug/L			03/03/24 15:18	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 15:18	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/03/24 15:18	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/03/24 15:18	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/03/24 15:18	1
Toluene	<0.250		1.00	0.250	ug/L			03/03/24 15:18	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/03/24 15:18	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/03/24 15:18	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/03/24 15:18	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/03/24 15:18	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/03/24 15:18	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/03/24 15:18	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/03/24 15:18	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/03/24 15:18	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/03/24 15:18	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/03/24 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/03/24 15:18	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 15:18	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/03/24 15:18	1
Vinyl acetate	<0.690	*-	2.00	0.690	ug/L			03/03/24 15:18	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/03/24 15:18	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/03/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/03/24 15:18*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/03/24 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*03/03/24 15:18*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/03/24 15:18*	*1*

Client Sample ID: EB-20240228

Date Collected: 02/28/24 17:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/03/24 15:40	1
Benzene	<0.270		1.00	0.270	ug/L			03/03/24 15:40	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/03/24 15:40	1
Bromoform	<0.590		1.00	0.590	ug/L			03/03/24 15:40	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/03/24 15:40	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/03/24 15:40	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/03/24 15:40	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/03/24 15:40	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/03/24 15:40	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/03/24 15:40	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/03/24 15:40	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/03/24 15:40	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: EB-20240228
Date Collected: 02/28/24 17:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.270		1.00	0.270	ug/L			03/03/24 15:40	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/03/24 15:40	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/03/24 15:40	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/03/24 15:40	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/03/24 15:40	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/03/24 15:40	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/03/24 15:40	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/03/24 15:40	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 15:40	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 15:40	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 15:40	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/03/24 15:40	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			03/03/24 15:40	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/03/24 15:40	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/03/24 15:40	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/03/24 15:40	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/03/24 15:40	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/03/24 15:40	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/03/24 15:40	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/03/24 15:40	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/03/24 15:40	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/03/24 15:40	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/03/24 15:40	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/03/24 15:40	1
Hexane	<0.650		5.00	0.650	ug/L			03/03/24 15:40	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/03/24 15:40	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/03/24 15:40	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/03/24 15:40	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/03/24 15:40	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/03/24 15:40	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/03/24 15:40	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/03/24 15:40	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/03/24 15:40	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/03/24 15:40	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/03/24 15:40	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/03/24 15:40	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/03/24 15:40	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/03/24 15:40	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/03/24 15:40	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/03/24 15:40	1
Styrene	<0.270		1.00	0.270	ug/L			03/03/24 15:40	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 15:40	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/03/24 15:40	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/03/24 15:40	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/03/24 15:40	1
Toluene	<0.250		1.00	0.250	ug/L			03/03/24 15:40	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/03/24 15:40	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/03/24 15:40	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/03/24 15:40	1

Client Sample ID: EB-20240228
Date Collected: 02/28/24 17:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/03/24 15:40	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/03/24 15:40	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/03/24 15:40	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/03/24 15:40	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/04/24 14:44	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/03/24 15:40	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/03/24 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/03/24 15:40	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 15:40	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/03/24 15:40	1
Vinyl acetate	<0.690	*-	2.00	0.690	ug/L			03/03/24 15:40	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/03/24 15:40	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/03/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/03/24 15:40*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/04/24 14:44*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/03/24 15:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*03/04/24 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*03/03/24 15:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*03/04/24 14:44*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/03/24 15:40*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/04/24 14:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.14		9.41	4.14	ug/L		03/02/24 13:08	03/04/24 17:51	1
Acenaphthylene	<3.39		9.41	3.39	ug/L		03/02/24 13:08	03/04/24 17:51	1
Acetophenone	<2.07		9.41	2.07	ug/L		03/02/24 13:08	03/04/24 17:51	1
Anthracene	<3.39		9.41	3.39	ug/L		03/02/24 13:08	03/04/24 17:51	1
Atrazine	<2.07		9.41	2.07	ug/L		03/02/24 13:08	03/04/24 17:51	1
Benzaldehyde	<4.52		9.41	4.52	ug/L		03/02/24 13:08	03/04/24 17:51	1
Benzo[a]anthracene	<3.95		9.41	3.95	ug/L		03/02/24 13:08	03/04/24 17:51	1
Benzo[a]pyrene	<2.64		9.41	2.64	ug/L		03/02/24 13:08	03/04/24 17:51	1
Benzo[b]fluoranthene	<2.92		9.41	2.92	ug/L		03/02/24 13:08	03/04/24 17:51	1
Benzo[g,h,i]perylene	<2.82		9.41	2.82	ug/L		03/02/24 13:08	03/04/24 17:51	1
Benzo[k]fluoranthene	<2.73		9.41	2.73	ug/L		03/02/24 13:08	03/04/24 17:51	1
1,1'-Biphenyl	<4.33		9.41	4.33	ug/L		03/02/24 13:08	03/04/24 17:51	1
Bis(2-chloroethoxy)methane	<1.69		9.41	1.69	ug/L		03/02/24 13:08	03/04/24 17:51	1
Bis(2-chloroethyl)ether	<3.39		9.41	3.39	ug/L		03/02/24 13:08	03/04/24 17:51	1
bis (2-chloroisopropyl) ether	<2.92		9.41	2.92	ug/L		03/02/24 13:08	03/04/24 17:51	1
Bis(2-ethylhexyl) phthalate	<2.82		9.41	2.82	ug/L		03/02/24 13:08	03/04/24 17:51	1
4-Bromophenyl phenyl ether	<4.42		9.41	4.42	ug/L		03/02/24 13:08	03/04/24 17:51	1
Butyl benzyl phthalate	<2.64		9.41	2.64	ug/L		03/02/24 13:08	03/04/24 17:51	1
Caprolactam	<2.64	*-	9.41	2.64	ug/L		03/02/24 13:08	03/04/24 17:51	1
Carbazole	<1.69		9.41	1.69	ug/L		03/02/24 13:08	03/04/24 17:51	1
4-Chloroaniline	<0.941		18.8	0.941	ug/L		03/02/24 13:08	03/04/24 17:51	1
4-Chloro-3-methylphenol	<2.35		9.41	2.35	ug/L		03/02/24 13:08	03/04/24 17:51	1
2-Chloronaphthalene	<4.52		9.41	4.52	ug/L		03/02/24 13:08	03/04/24 17:51	1
2-Chlorophenol	<3.01		9.41	3.01	ug/L		03/02/24 13:08	03/04/24 17:51	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: EB-20240228
Date Collected: 02/28/24 17:10
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<4.99		9.41	4.99	ug/L		03/02/24 13:08	03/04/24 17:51	1
Chrysene	<3.58		9.41	3.58	ug/L		03/02/24 13:08	03/04/24 17:51	1
Dibenz(a,h)anthracene	<2.82		9.41	2.82	ug/L		03/02/24 13:08	03/04/24 17:51	1
Dibenzofuran	<1.79		9.41	1.79	ug/L		03/02/24 13:08	03/04/24 17:51	1
3,3'-Dichlorobenzidine	<9.41		56.5	9.41	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,4-Dichlorophenol	<3.48		9.41	3.48	ug/L		03/02/24 13:08	03/04/24 17:51	1
Diethyl phthalate	<2.07		9.41	2.07	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,4-Dimethylphenol	<2.82		9.41	2.82	ug/L		03/02/24 13:08	03/04/24 17:51	1
Dimethyl phthalate	<1.98		9.41	1.98	ug/L		03/02/24 13:08	03/04/24 17:51	1
Di-n-butyl phthalate	<2.16		9.41	2.16	ug/L		03/02/24 13:08	03/04/24 17:51	1
4,6-Dinitro-2-methylphenol	<4.99		47.1	4.99	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,4-Dinitrophenol	<15.1		47.1	15.1	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,6-Dinitrotoluene	<2.64		9.41	2.64	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,4-Dinitrotoluene	<2.16		9.41	2.16	ug/L		03/02/24 13:08	03/04/24 17:51	1
Di-n-octyl phthalate	<2.64		9.41	2.64	ug/L		03/02/24 13:08	03/04/24 17:51	1
Fluoranthene	<1.51		9.41	1.51	ug/L		03/02/24 13:08	03/04/24 17:51	1
Fluorene	<3.20		9.41	3.20	ug/L		03/02/24 13:08	03/04/24 17:51	1
Hexachlorobenzene	<1.51		9.41	1.51	ug/L		03/02/24 13:08	03/04/24 17:51	1
Hexachlorobutadiene	<3.77		9.41	3.77	ug/L		03/02/24 13:08	03/04/24 17:51	1
Hexachlorocyclopentadiene	<3.29		9.41	3.29	ug/L		03/02/24 13:08	03/04/24 17:51	1
Hexachloroethane	<3.39		9.41	3.39	ug/L		03/02/24 13:08	03/04/24 17:51	1
Indeno[1,2,3-cd]pyrene	<4.05		9.41	4.05	ug/L		03/02/24 13:08	03/04/24 17:51	1
Isophorone	<1.88		9.41	1.88	ug/L		03/02/24 13:08	03/04/24 17:51	1
2-Methylnaphthalene	<4.33		9.41	4.33	ug/L		03/02/24 13:08	03/04/24 17:51	1
2-Methylphenol	<1.69		9.41	1.69	ug/L		03/02/24 13:08	03/04/24 17:51	1
3 & 4 Methylphenol	<1.32		9.41	1.32	ug/L		03/02/24 13:08	03/04/24 17:51	1
Naphthalene	<3.29		9.41	3.29	ug/L		03/02/24 13:08	03/04/24 17:51	1
2-Nitroaniline	<2.73		47.1	2.73	ug/L		03/02/24 13:08	03/04/24 17:51	1
3-Nitroaniline	<2.82		47.1	2.82	ug/L		03/02/24 13:08	03/04/24 17:51	1
4-Nitroaniline	<2.82		47.1	2.82	ug/L		03/02/24 13:08	03/04/24 17:51	1
Nitrobenzene	<3.29		9.41	3.29	ug/L		03/02/24 13:08	03/04/24 17:51	1
2-Nitrophenol	<3.67		9.41	3.67	ug/L		03/02/24 13:08	03/04/24 17:51	1
4-Nitrophenol	<7.62		47.1	7.62	ug/L		03/02/24 13:08	03/04/24 17:51	1
N-Nitrosodi-n-propylamine	<2.26		9.41	2.26	ug/L		03/02/24 13:08	03/04/24 17:51	1
N-Nitrosodiphenylamine	<2.73		9.41	2.73	ug/L		03/02/24 13:08	03/04/24 17:51	1
Pentachlorophenol	<9.32		47.1	9.32	ug/L		03/02/24 13:08	03/04/24 17:51	1
Phenanthrene	<4.05		9.41	4.05	ug/L		03/02/24 13:08	03/04/24 17:51	1
Phenol	<1.41		9.41	1.41	ug/L		03/02/24 13:08	03/04/24 17:51	1
Pyrene	<3.48		9.41	3.48	ug/L		03/02/24 13:08	03/04/24 17:51	1
Pyridine	<6.97		47.1	6.97	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,4,6-Trichlorophenol	<2.07		9.41	2.07	ug/L		03/02/24 13:08	03/04/24 17:51	1
2,4,5-Trichlorophenol	<3.11		9.41	3.11	ug/L		03/02/24 13:08	03/04/24 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*30 - 130*	*03/02/24 13:08*	*03/04/24 17:51*	*1*
2-Fluorobiphenyl (Surr)	*81*		*25 - 130*	*03/02/24 13:08*	*03/04/24 17:51*	*1*
Terphenyl-d14 (Surr)	*88*		*35 - 131*	*03/02/24 13:08*	*03/04/24 17:51*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/02/24 13:08*	*03/04/24 17:51*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 130*	*03/02/24 13:08*	*03/04/24 17:51*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*30 - 130*	*03/02/24 13:08*	*03/04/24 17:51*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: TB-02-20240228
Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/03/24 16:02	1
Benzene	<0.270		1.00	0.270	ug/L			03/03/24 16:02	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/03/24 16:02	1
Bromoform	<0.590		1.00	0.590	ug/L			03/03/24 16:02	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/03/24 16:02	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/03/24 16:02	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/03/24 16:02	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/03/24 16:02	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/03/24 16:02	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/03/24 16:02	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/03/24 16:02	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/03/24 16:02	1
Chloroform	<0.270		1.00	0.270	ug/L			03/03/24 16:02	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/03/24 16:02	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/03/24 16:02	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/03/24 16:02	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/03/24 16:02	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/03/24 16:02	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/03/24 16:02	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/03/24 16:02	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 16:02	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 16:02	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 16:02	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/03/24 16:02	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			03/03/24 16:02	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/03/24 16:02	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/03/24 16:02	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/03/24 16:02	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/03/24 16:02	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/03/24 16:02	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/03/24 16:02	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/03/24 16:02	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/03/24 16:02	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/03/24 16:02	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/03/24 16:02	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/03/24 16:02	1
Hexane	<0.650		5.00	0.650	ug/L			03/03/24 16:02	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/03/24 16:02	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/03/24 16:02	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/03/24 16:02	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/03/24 16:02	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/03/24 16:02	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/03/24 16:02	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/03/24 16:02	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/03/24 16:02	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/03/24 16:02	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/03/24 16:02	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/03/24 16:02	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/03/24 16:02	1

Client Sample ID: TB-02-20240228

Date Collected: 02/28/24 00:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/03/24 16:02	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/03/24 16:02	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/03/24 16:02	1
Styrene	<0.270		1.00	0.270	ug/L			03/03/24 16:02	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 16:02	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/03/24 16:02	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/03/24 16:02	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/03/24 16:02	1
Toluene	<0.250		1.00	0.250	ug/L			03/03/24 16:02	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/03/24 16:02	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/03/24 16:02	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/03/24 16:02	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/03/24 16:02	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/03/24 16:02	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/03/24 16:02	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/03/24 16:02	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/03/24 16:02	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/03/24 16:02	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/03/24 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/03/24 16:02	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 16:02	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/03/24 16:02	1
Vinyl acetate	<0.690	*-	2.00	0.690	ug/L			03/03/24 16:02	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/03/24 16:02	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/03/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/03/24 16:02*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/03/24 16:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*03/03/24 16:02*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/03/24 16:02*	*1*

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

Lab Sample ID: 680-247309-7 MS
Matrix: Solid
Analysis Batch: 826047

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0545		0.274	0.4103		mg/Kg	☼	130	10 - 150
Benzene	<0.00254		0.0549	0.05529		mg/Kg	☼	101	70 - 130
Bromobenzene	<0.00180		0.0549	0.05438		mg/Kg	☼	99	70 - 130
Chlorobromomethane	<0.00211		0.0549	0.05410		mg/Kg	☼	99	66 - 130
Dichlorobromomethane	<0.00211		0.0549	0.05547		mg/Kg	☼	101	70 - 130
Bromoform	<0.00233		0.0549	0.05293		mg/Kg	☼	96	68 - 130
Bromomethane	<0.00254	F1	0.0549	0.08414	F1	mg/Kg	☼	153	70 - 130
2-Butanone (MEK)	<0.00973		0.274	0.3081		mg/Kg	☼	112	40 - 150
n-Butylbenzene	<0.00201		0.0549	0.05801		mg/Kg	☼	106	70 - 130
sec-Butylbenzene	<0.00211		0.0549	0.05545		mg/Kg	☼	101	69 - 142
tert-Butylbenzene	<0.00264		0.0549	0.05589		mg/Kg	☼	102	67 - 145
Carbon disulfide	<0.00222		0.0549	0.06163		mg/Kg	☼	112	70 - 130
Carbon tetrachloride	<0.00222		0.0549	0.05978		mg/Kg	☼	109	70 - 130
Chlorobenzene	<0.00148		0.0549	0.05584		mg/Kg	☼	102	70 - 130
Chloroethane	<0.00233		0.0549	0.04531		mg/Kg	☼	83	70 - 130
Chloroform	<0.00211		0.0549	0.05745		mg/Kg	☼	105	70 - 130
Chloromethane	<0.00254		0.0549	0.06122		mg/Kg	☼	112	70 - 130
2-Chlorotoluene	<0.00243		0.0549	0.05548		mg/Kg	☼	101	70 - 130
4-Chlorotoluene	<0.00222		0.0549	0.05341		mg/Kg	☼	97	70 - 130
Chlorodibromomethane	<0.00222		0.0549	0.05163		mg/Kg	☼	94	64 - 133
1,2-Dibromo-3-Chloropropane	<0.00169		0.0549	0.06171		mg/Kg	☼	112	42 - 145
Ethylene Dibromide	<0.00180		0.0549	0.05503		mg/Kg	☼	100	48 - 150
Dibromomethane	<0.00211		0.0549	0.05566		mg/Kg	☼	101	59 - 142
1,2-Dichlorobenzene	<0.00180		0.0549	0.05603		mg/Kg	☼	102	70 - 130
1,3-Dichlorobenzene	<0.00211		0.0549	0.05632		mg/Kg	☼	103	70 - 130
1,4-Dichlorobenzene	<0.00190		0.0549	0.05631		mg/Kg	☼	103	70 - 130
trans-1,4-Dichloro-2-butene	<0.00254		0.0549	0.05309		mg/Kg	☼	97	54 - 150
Dichlorodifluoromethane	<0.00338	F1	0.0549	0.07907	F1	mg/Kg	☼	144	43 - 131
1,1-Dichloroethane	<0.00307		0.0549	0.05636		mg/Kg	☼	103	70 - 130
1,2-Dichloroethane	<0.00243		0.0549	0.05640		mg/Kg	☼	103	68 - 139
cis-1,2-Dichloroethene	<0.00307		0.0549	0.05629		mg/Kg	☼	103	70 - 130
trans-1,2-Dichloroethene	<0.00243		0.0549	0.05633		mg/Kg	☼	103	67 - 130
1,1-Dichloroethene	<0.00381		0.0549	0.05727		mg/Kg	☼	104	69 - 130
1,2-Dichloropropane	<0.00275		0.0549	0.05240		mg/Kg	☼	95	70 - 130
1,3-Dichloropropane	<0.00233		0.0549	0.05366		mg/Kg	☼	98	54 - 150
2,2-Dichloropropane	<0.00233		0.0549	0.05747		mg/Kg	☼	105	70 - 130
1,1-Dichloropropene	<0.00211		0.0549	0.05990		mg/Kg	☼	109	70 - 130
cis-1,3-Dichloropropene	<0.00233		0.0549	0.05091		mg/Kg	☼	93	70 - 130
trans-1,3-Dichloropropene	<0.00275		0.0549	0.05184		mg/Kg	☼	94	54 - 150
Ethylbenzene	<0.00222		0.0549	0.05884		mg/Kg	☼	107	70 - 130
Hexachlorobutadiene	<0.00433	F1	0.0549	0.04518		mg/Kg	☼	82	70 - 130
2-Hexanone	<0.0201		0.274	0.2882		mg/Kg	☼	105	30 - 150
Iodomethane	<0.00180		0.0549	0.04740		mg/Kg	☼	86	65 - 138
Isopropylbenzene	<0.00233		0.0549	0.06369		mg/Kg	☼	116	70 - 130
4-Isopropyltoluene	<0.00275		0.0549	0.06192		mg/Kg	☼	113	70 - 130
Methylene Chloride	<0.00846		0.0549	0.05449		mg/Kg	☼	99	54 - 149
4-Methyl-2-pentanone (MIBK)	<0.0190		0.274	0.2899		mg/Kg	☼	106	34 - 150
Methyl tert-butyl ether	<0.00233		0.0549	0.05486		mg/Kg	☼	100	70 - 130

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

Lab Sample ID: 680-247309-7 MS
Matrix: Solid
Analysis Batch: 826047

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	<0.00328		0.0549	0.05144		mg/Kg	☼	94	46 - 150
N-Propylbenzene	<0.00233		0.0549	0.05851		mg/Kg	☼	107	70 - 130
Styrene	<0.00201		0.0549	0.05519		mg/Kg	☼	101	70 - 130
1,1,1,2-Tetrachloroethane	<0.00137		0.0549	0.05439		mg/Kg	☼	99	70 - 130
1,1,2,2-Tetrachloroethane	<0.00222		0.0549	0.06449		mg/Kg	☼	118	64 - 130
Tetrachloroethene	<0.00275		0.0549	0.05718		mg/Kg	☼	104	70 - 130
Toluene	<0.00275		0.0549	0.05583		mg/Kg	☼	102	70 - 130
1,2,3-Trichlorobenzene	<0.00211		0.0549	0.04246		mg/Kg	☼	77	70 - 130
1,2,4-Trichlorobenzene	<0.00264		0.0549	0.04309		mg/Kg	☼	79	70 - 130
1,1,1-Trichloroethane	<0.00275		0.0549	0.05948		mg/Kg	☼	108	70 - 130
1,1,2-Trichloroethane	<0.00159		0.0549	0.05266		mg/Kg	☼	96	56 - 146
Trichloroethene	0.00281	J	0.0549	0.05581		mg/Kg	☼	97	70 - 130
Trichlorofluoromethane	<0.00328		0.0549	0.06517		mg/Kg	☼	119	70 - 130
1,2,3-Trichloropropane	<0.00190		0.0549	0.06006		mg/Kg	☼	109	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00307		0.0549	0.06020		mg/Kg	☼	110	70 - 130
1,2,4-Trimethylbenzene	<0.00264		0.0549	0.05519		mg/Kg	☼	101	70 - 130
1,3,5-Trimethylbenzene	<0.00254		0.0549	0.05697		mg/Kg	☼	104	70 - 130
Vinyl acetate	<0.00581	F1	0.110	0.1823	F1	mg/Kg	☼	166	53 - 150
Vinyl chloride	<0.00296	F1	0.0549	0.06984		mg/Kg	☼	127	70 - 130
o-Xylene	<0.00243		0.0549	0.05914		mg/Kg	☼	108	70 - 130
m-Xylene & p-Xylene	<0.00233		0.0549	0.05805		mg/Kg	☼	106	70 - 130
Xylenes, Total	<0.00381		0.110	0.1172		mg/Kg	☼	107	70 - 130
Hexane	<0.00180		0.0549	0.05327		mg/Kg	☼	97	70 - 130
n-Heptane	<0.00455	F1	0.0549	0.04475		mg/Kg	☼	82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*
Dibromofluoromethane (Surr)	*104*		*65 - 130*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*

Lab Sample ID: 680-247309-7 MSD
Matrix: Solid
Analysis Batch: 826047

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0545		0.238	0.3078		mg/Kg	☼	106	10 - 150	29	50
Benzene	<0.00254		0.0477	0.04926		mg/Kg	☼	103	70 - 130	12	50
Bromobenzene	<0.00180		0.0477	0.04677		mg/Kg	☼	98	70 - 130	15	50
Chlorobromomethane	<0.00211		0.0477	0.04622		mg/Kg	☼	97	66 - 130	16	50
Dichlorobromomethane	<0.00211		0.0477	0.04758		mg/Kg	☼	100	70 - 130	15	50
Bromoform	<0.00233		0.0477	0.04366		mg/Kg	☼	92	68 - 130	19	50
Bromomethane	<0.00254	F1	0.0477	0.06558	F1	mg/Kg	☼	138	70 - 130	25	50
2-Butanone (MEK)	<0.00973		0.238	0.2405		mg/Kg	☼	101	40 - 150	25	50
n-Butylbenzene	<0.00201		0.0477	0.04746		mg/Kg	☼	100	70 - 130	20	50
sec-Butylbenzene	<0.00211		0.0477	0.04608		mg/Kg	☼	97	69 - 142	18	50
tert-Butylbenzene	<0.00264		0.0477	0.04806		mg/Kg	☼	101	67 - 145	15	50
Carbon disulfide	<0.00222		0.0477	0.05554		mg/Kg	☼	117	70 - 130	10	50

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

Lab Sample ID: 680-247309-7 MSD
Matrix: Solid
Analysis Batch: 826047

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	<0.00222		0.0477	0.05324		mg/Kg	☼	112	70 - 130	12	50
Chlorobenzene	<0.00148		0.0477	0.04876		mg/Kg	☼	102	70 - 130	14	50
Chloroethane	<0.00233		0.0477	0.05029		mg/Kg	☼	106	70 - 130	10	50
Chloroform	<0.00211		0.0477	0.04905		mg/Kg	☼	103	70 - 130	16	50
Chloromethane	<0.00254		0.0477	0.04770		mg/Kg	☼	100	70 - 130	25	50
2-Chlorotoluene	<0.00243		0.0477	0.04853		mg/Kg	☼	102	70 - 130	13	50
4-Chlorotoluene	<0.00222		0.0477	0.04691		mg/Kg	☼	98	70 - 130	13	50
Chlorodibromomethane	<0.00222		0.0477	0.04505		mg/Kg	☼	95	64 - 133	14	50
1,2-Dibromo-3-Chloropropane	<0.00169		0.0477	0.04883		mg/Kg	☼	102	42 - 145	23	50
Ethylene Dibromide	<0.00180		0.0477	0.04619		mg/Kg	☼	97	48 - 150	17	50
Dibromomethane	<0.00211		0.0477	0.04654		mg/Kg	☼	98	59 - 142	18	50
1,2-Dichlorobenzene	<0.00180		0.0477	0.04835		mg/Kg	☼	101	70 - 130	15	50
1,3-Dichlorobenzene	<0.00211		0.0477	0.05046		mg/Kg	☼	106	70 - 130	11	50
1,4-Dichlorobenzene	<0.00190		0.0477	0.04825		mg/Kg	☼	101	70 - 130	15	50
trans-1,4-Dichloro-2-butene	<0.00254		0.0477	0.04137		mg/Kg	☼	87	54 - 150	25	50
Dichlorodifluoromethane	<0.00338	F1	0.0477	0.06700	F1	mg/Kg	☼	141	43 - 131	17	50
1,1-Dichloroethane	<0.00307		0.0477	0.04963		mg/Kg	☼	104	70 - 130	13	50
1,2-Dichloroethane	<0.00243		0.0477	0.04862		mg/Kg	☼	102	68 - 139	15	50
cis-1,2-Dichloroethene	<0.00307		0.0477	0.04942		mg/Kg	☼	104	70 - 130	13	50
trans-1,2-Dichloroethene	<0.00243		0.0477	0.05014		mg/Kg	☼	105	67 - 130	12	50
1,1-Dichloroethene	<0.00381		0.0477	0.04661		mg/Kg	☼	98	69 - 130	21	50
1,2-Dichloropropane	<0.00275		0.0477	0.04554		mg/Kg	☼	96	70 - 130	14	50
1,3-Dichloropropane	<0.00233		0.0477	0.04588		mg/Kg	☼	96	54 - 150	16	50
2,2-Dichloropropane	<0.00233		0.0477	0.04921		mg/Kg	☼	103	70 - 130	15	50
1,1-Dichloropropene	<0.00211		0.0477	0.05278		mg/Kg	☼	111	70 - 130	13	50
cis-1,3-Dichloropropene	<0.00233		0.0477	0.04383		mg/Kg	☼	92	70 - 130	15	50
trans-1,3-Dichloropropene	<0.00275		0.0477	0.04484		mg/Kg	☼	94	54 - 150	14	50
Ethylbenzene	<0.00222		0.0477	0.05132		mg/Kg	☼	108	70 - 130	14	50
Hexachlorobutadiene	<0.00433	F1	0.0477	0.02916	F1	mg/Kg	☼	61	70 - 130	43	50
2-Hexanone	<0.0201		0.238	0.2280		mg/Kg	☼	96	30 - 150	23	50
Iodomethane	<0.00180		0.0477	0.05174		mg/Kg	☼	109	65 - 138	9	50
Isopropylbenzene	<0.00233		0.0477	0.05477		mg/Kg	☼	115	70 - 130	15	50
4-Isopropyltoluene	<0.00275		0.0477	0.05261		mg/Kg	☼	110	70 - 130	16	50
Methylene Chloride	<0.00846		0.0477	0.04730		mg/Kg	☼	99	54 - 149	14	50
4-Methyl-2-pentanone (MIBK)	<0.0190		0.238	0.2319		mg/Kg	☼	97	34 - 150	22	50
Methyl tert-butyl ether	<0.00233		0.0477	0.04501		mg/Kg	☼	94	70 - 130	20	50
Naphthalene	<0.00328		0.0477	0.04130		mg/Kg	☼	87	46 - 150	22	50
N-Propylbenzene	<0.00233		0.0477	0.05030		mg/Kg	☼	106	70 - 130	15	50
Styrene	<0.00201		0.0477	0.04808		mg/Kg	☼	101	70 - 130	14	50
1,1,1,2-Tetrachloroethane	<0.00137		0.0477	0.04642		mg/Kg	☼	97	70 - 130	16	50
1,1,2,2-Tetrachloroethane	<0.00222		0.0477	0.05253		mg/Kg	☼	110	64 - 130	20	50
Tetrachloroethene	<0.00275		0.0477	0.05135		mg/Kg	☼	108	70 - 130	11	50
Toluene	<0.00275		0.0477	0.04989		mg/Kg	☼	105	70 - 130	11	50
1,2,3-Trichlorobenzene	<0.00211		0.0477	0.03354		mg/Kg	☼	70	70 - 130	23	50
1,2,4-Trichlorobenzene	<0.00264		0.0477	0.03351		mg/Kg	☼	70	70 - 130	25	50
1,1,1-Trichloroethane	<0.00275		0.0477	0.05342		mg/Kg	☼	112	70 - 130	11	50
1,1,2-Trichloroethane	<0.00159		0.0477	0.04646		mg/Kg	☼	97	56 - 146	13	50
Trichloroethene	0.00281	J	0.0477	0.04861		mg/Kg	☼	96	70 - 130	14	50
Trichlorofluoromethane	<0.00328		0.0477	0.06065		mg/Kg	☼	127	70 - 130	7	50

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

Lab Sample ID: 680-247309-7 MSD
Matrix: Solid
Analysis Batch: 826047

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichloropropane	<0.00190		0.0477	0.04789		mg/Kg	☼	100	64 - 130	23	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00307		0.0477	0.05252		mg/Kg	☼	110	70 - 130	14	50
1,2,4-Trimethylbenzene	<0.00264		0.0477	0.04789		mg/Kg	☼	100	70 - 130	14	50
1,3,5-Trimethylbenzene	<0.00254		0.0477	0.04890		mg/Kg	☼	103	70 - 130	15	50
Vinyl acetate	<0.00581	F1	0.0953	0.1499	F1	mg/Kg	☼	157	53 - 150	20	50
Vinyl chloride	<0.00296	F1	0.0477	0.06256	F1	mg/Kg	☼	131	70 - 130	11	50
o-Xylene	<0.00243		0.0477	0.05136		mg/Kg	☼	108	70 - 130	14	50
m-Xylene & p-Xylene	<0.00233		0.0477	0.05159		mg/Kg	☼	108	70 - 130	12	50
Xylenes, Total	<0.00381		0.0953	0.1030		mg/Kg	☼	108	70 - 130	13	50
Hexane	<0.00180		0.0477	0.04531		mg/Kg	☼	95	70 - 130	16	50
n-Heptane	<0.00455	F1	0.0477	0.03283	F1	mg/Kg	☼	69	70 - 130	31	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 130*
Dibromofluoromethane (Surr)	*104*		*65 - 130*
4-Bromofluorobenzene (Surr)	*105*		*65 - 130*

Lab Sample ID: MB 680-825533/11
Matrix: Water
Analysis Batch: 825533

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/03/24 14:56	1
Benzene	<0.270		1.00	0.270	ug/L			03/03/24 14:56	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/03/24 14:56	1
Bromoform	<0.590		1.00	0.590	ug/L			03/03/24 14:56	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/03/24 14:56	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/03/24 14:56	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/03/24 14:56	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/03/24 14:56	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/03/24 14:56	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/03/24 14:56	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/03/24 14:56	1
Chloroform	<0.270		1.00	0.270	ug/L			03/03/24 14:56	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/03/24 14:56	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/03/24 14:56	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/03/24 14:56	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/03/24 14:56	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/03/24 14:56	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/03/24 14:56	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 14:56	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 14:56	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/03/24 14:56	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/03/24 14:56	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/03/24 14:56	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/03/24 14:56	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/03/24 14:56	1

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

Lab Sample ID: MB 680-825533/11
Matrix: Water
Analysis Batch: 825533

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/03/24 14:56	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/03/24 14:56	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/03/24 14:56	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/03/24 14:56	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/03/24 14:56	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/03/24 14:56	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/03/24 14:56	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/03/24 14:56	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/03/24 14:56	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/03/24 14:56	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/03/24 14:56	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/03/24 14:56	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/03/24 14:56	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/03/24 14:56	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/03/24 14:56	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/03/24 14:56	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/03/24 14:56	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/03/24 14:56	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/03/24 14:56	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/03/24 14:56	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/03/24 14:56	1
Styrene	<0.270		1.00	0.270	ug/L			03/03/24 14:56	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 14:56	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/03/24 14:56	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/03/24 14:56	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/03/24 14:56	1
Toluene	<0.250		1.00	0.250	ug/L			03/03/24 14:56	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/03/24 14:56	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/03/24 14:56	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/03/24 14:56	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/03/24 14:56	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/03/24 14:56	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/03/24 14:56	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/03/24 14:56	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/03/24 14:56	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/03/24 14:56	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/03/24 14:56	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/03/24 14:56	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/03/24 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/03/24 14:56	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/03/24 14:56	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/03/24 14:56	1
Hexane	<0.650		5.00	0.650	ug/L			03/03/24 14:56	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/03/24 14:56	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/03/24 14:56	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/03/24 14:56	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/03/24 14:56	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/03/24 14:56	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/03/24 14:56	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/03/24 14:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*03/03/24 14:56*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/03/24 14:56*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/03/24 14:56*	*1*

Lab Sample ID: LCS 680-825533/6
Matrix: Water
Analysis Batch: 825533

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	202.0		ug/L		81	67 - 120
Benzene	50.0	53.38		ug/L		107	70 - 130
Bromobenzene	50.0	56.85		ug/L		114	70 - 130
Bromoform	50.0	39.94		ug/L		80	69 - 129
Bromomethane	50.0	69.76		ug/L		140	28 - 192
2-Butanone (MEK)	250	182.4		ug/L		73	69 - 120
Chlorobromomethane	50.0	53.57		ug/L		107	70 - 130
Carbon disulfide	50.0	56.92		ug/L		114	70 - 130
Carbon tetrachloride	50.0	40.64		ug/L		81	70 - 130
Chlorobenzene	50.0	53.05		ug/L		106	70 - 130
Chloroethane	50.0	70.46		ug/L		141	31 - 213
Chloroform	50.0	49.33		ug/L		99	70 - 130
Chloromethane	50.0	64.55	*+	ug/L		129	59 - 127
2-Chlorotoluene	50.0	58.05		ug/L		116	70 - 130
4-Chlorotoluene	50.0	58.68		ug/L		117	70 - 130
Chlorodibromomethane	50.0	45.61		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	31.02	*-	ug/L		62	70 - 130
Dibromomethane	50.0	49.98		ug/L		100	70 - 130
1,2-Dichlorobenzene	50.0	51.31		ug/L		103	70 - 130
1,3-Dichlorobenzene	50.0	54.04		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	54.11		ug/L		108	70 - 130
Dichlorobromomethane	50.0	46.86		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	75.17	*+	ug/L		150	70 - 130
1,1-Dichloroethane	50.0	54.10		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	47.04		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	51.63		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	55.75		ug/L		112	70 - 130
1,2-Dichloropropane	50.0	52.75		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	53.49		ug/L		107	70 - 130
2,2-Dichloropropane	50.0	48.68		ug/L		97	70 - 130
1,1-Dichloropropene	50.0	54.14		ug/L		108	70 - 130
cis-1,3-Dichloropropene	50.0	51.01		ug/L		102	70 - 130
Ethylene Dibromide	50.0	53.03		ug/L		106	70 - 130
Ethylbenzene	50.0	52.83		ug/L		106	70 - 130
Hexachlorobutadiene	50.0	51.83		ug/L		104	70 - 130
2-Hexanone	250	196.7		ug/L		79	70 - 130
Iodomethane	50.0	51.91		ug/L		104	52 - 129
Isopropylbenzene	50.0	58.23		ug/L		116	70 - 130
4-Isopropyltoluene	50.0	56.73		ug/L		113	70 - 130
Methylene Chloride	50.0	50.84		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	250	214.3		ug/L		86	68 - 120

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

Lab Sample ID: LCS 680-825533/6
Matrix: Water
Analysis Batch: 825533

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tert-butyl ether	50.0	44.24		ug/L		88	70 - 130
Naphthalene	50.0	44.96		ug/L		90	57 - 149
n-Butylbenzene	50.0	56.30		ug/L		113	70 - 130
N-Propylbenzene	50.0	56.77		ug/L		114	70 - 130
sec-Butylbenzene	50.0	56.66		ug/L		113	70 - 130
Styrene	50.0	57.32		ug/L		115	70 - 130
tert-Butylbenzene	50.0	55.68		ug/L		111	70 - 130
1,1,1,2-Tetrachloroethane	50.0	45.88		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.61		ug/L		89	70 - 130
Tetrachloroethene	50.0	50.31		ug/L		101	70 - 130
Toluene	50.0	52.76		ug/L		106	70 - 130
trans-1,4-Dichloro-2-butene	50.0	37.33		ug/L		75	67 - 120
trans-1,2-Dichloroethene	50.0	53.75		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	50.38		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	50.0	48.73		ug/L		97	61 - 141
1,2,4-Trichlorobenzene	50.0	51.20		ug/L		102	70 - 130
1,1,1-Trichloroethane	50.0	45.63		ug/L		91	70 - 130
o-Xylene	50.0	53.81		ug/L		108	70 - 130
1,1,2-Trichloroethane	50.0	54.54		ug/L		109	70 - 130
m-Xylene & p-Xylene	50.0	53.00		ug/L		106	70 - 130
Trichloroethene	50.0	52.03		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	92.03	*+	ug/L		184	63 - 142
1,2,3-Trichloropropane	50.0	45.44		ug/L		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.69		ug/L		105	63 - 141
1,2,4-Trimethylbenzene	50.0	59.11		ug/L		118	70 - 130
Hexane	50.0	60.53		ug/L		121	70 - 130
1,3,5-Trimethylbenzene	50.0	59.34		ug/L		119	70 - 130
n-Heptane	50.0	58.16		ug/L		116	65 - 120
Vinyl acetate	100	67.37		ug/L		67	67 - 135
Vinyl chloride	50.0	72.65	*+	ug/L		145	66 - 129
Xylenes, Total	100	106.8		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 680-825533/7
Matrix: Water
Analysis Batch: 825533

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
Acetone	250	206.7		ug/L		83	67 - 120	2	30
Benzene	50.0	53.63		ug/L		107	70 - 130	0	30
Bromobenzene	50.0	57.57		ug/L		115	70 - 130	1	30
Bromoform	50.0	40.81		ug/L		82	69 - 129	2	30
Bromomethane	50.0	68.26		ug/L		137	28 - 192	2	30

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

Lab Sample ID: LCSD 680-825533/7
Matrix: Water
Analysis Batch: 825533

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
2-Butanone (MEK)			250	194.8		ug/L		78	69 - 120	7	30
Chlorobromomethane			50.0	54.83		ug/L		110	70 - 130	2	30
Carbon disulfide			50.0	55.93		ug/L		112	70 - 130	2	30
Carbon tetrachloride			50.0	40.77		ug/L		82	70 - 130	0	30
Chlorobenzene			50.0	53.70		ug/L		107	70 - 130	1	30
Chloroethane			50.0	67.96		ug/L		136	31 - 213	4	30
Chloroform			50.0	50.03		ug/L		100	70 - 130	1	30
Chloromethane			50.0	63.20		ug/L		126	59 - 127	2	30
2-Chlorotoluene			50.0	57.90		ug/L		116	70 - 130	0	30
4-Chlorotoluene			50.0	58.55		ug/L		117	70 - 130	0	30
Chlorodibromomethane			50.0	46.81		ug/L		94	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	33.15	*-	ug/L		66	70 - 130	7	30
Dibromomethane			50.0	51.39		ug/L		103	70 - 130	3	30
1,2-Dichlorobenzene			50.0	52.01		ug/L		104	70 - 130	1	30
1,3-Dichlorobenzene			50.0	55.10		ug/L		110	70 - 130	2	30
1,4-Dichlorobenzene			50.0	53.88		ug/L		108	70 - 130	0	30
Dichlorobromomethane			50.0	47.61		ug/L		95	70 - 130	2	30
Dichlorodifluoromethane			50.0	56.77		ug/L		114	70 - 130	28	40
1,1-Dichloroethane			50.0	53.78		ug/L		108	70 - 130	1	30
1,2-Dichloroethane			50.0	47.89		ug/L		96	70 - 130	2	50
cis-1,2-Dichloroethene			50.0	52.17		ug/L		104	70 - 130	1	30
1,1-Dichloroethene			50.0	54.97		ug/L		110	70 - 130	1	20
1,2-Dichloropropane			50.0	53.84		ug/L		108	70 - 130	2	20
1,3-Dichloropropane			50.0	55.16		ug/L		110	70 - 130	3	20
2,2-Dichloropropane			50.0	48.31		ug/L		97	70 - 130	1	20
1,1-Dichloropropene			50.0	53.62		ug/L		107	70 - 130	1	20
cis-1,3-Dichloropropene			50.0	52.09		ug/L		104	70 - 130	2	20
Ethylene Dibromide			50.0	54.52		ug/L		109	70 - 130	3	30
Ethylbenzene			50.0	53.09		ug/L		106	70 - 130	0	20
Hexachlorobutadiene			50.0	52.03		ug/L		104	70 - 130	0	20
2-Hexanone			250	204.9		ug/L		82	70 - 130	4	20
Iodomethane			50.0	52.06		ug/L		104	52 - 129	0	30
Isopropylbenzene			50.0	58.39		ug/L		117	70 - 130	0	30
4-Isopropyltoluene			50.0	57.49		ug/L		115	70 - 130	1	30
Methylene Chloride			50.0	51.90		ug/L		104	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			250	221.3		ug/L		89	68 - 120	3	30
Methyl tert-butyl ether			50.0	45.72		ug/L		91	70 - 130	3	30
Naphthalene			50.0	46.15		ug/L		92	57 - 149	3	30
n-Butylbenzene			50.0	56.81		ug/L		114	70 - 130	1	30
N-Propylbenzene			50.0	56.43		ug/L		113	70 - 130	1	30
sec-Butylbenzene			50.0	56.41		ug/L		113	70 - 130	0	30
Styrene			50.0	57.98		ug/L		116	70 - 130	1	30
tert-Butylbenzene			50.0	55.55		ug/L		111	70 - 130	0	30
1,1,1,2-Tetrachloroethane			50.0	45.82		ug/L		92	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	46.38		ug/L		93	70 - 130	4	30
Tetrachloroethene			50.0	51.15		ug/L		102	70 - 130	2	30
Toluene			50.0	52.74		ug/L		105	70 - 130	0	30
trans-1,4-Dichloro-2-butene			50.0	37.62		ug/L		75	67 - 120	1	30
trans-1,2-Dichloroethene			50.0	53.20		ug/L		106	70 - 130	1	30

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

Lab Sample ID: LCSD 680-825533/7
Matrix: Water
Analysis Batch: 825533

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
trans-1,3-Dichloropropene			50.0	50.99		ug/L		102	70 - 130	1	30
1,2,3-Trichlorobenzene			50.0	49.28		ug/L		99	61 - 141	1	30
1,2,4-Trichlorobenzene			50.0	51.90		ug/L		104	70 - 130	1	30
1,1,1-Trichloroethane			50.0	45.31		ug/L		91	70 - 130	1	30
o-Xylene			50.0	53.91		ug/L		108	70 - 130	0	30
1,1,2-Trichloroethane			50.0	55.47		ug/L		111	70 - 130	2	30
m-Xylene & p-Xylene			50.0	53.26		ug/L		107	70 - 130	0	30
Trichloroethene			50.0	52.70		ug/L		105	70 - 130	1	30
Trichlorofluoromethane			50.0	90.66	*+	ug/L		181	63 - 142	1	30
1,2,3-Trichloropropane			50.0	46.38		ug/L		93	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.78		ug/L		106	63 - 141	0	30
1,2,4-Trimethylbenzene			50.0	58.53		ug/L		117	70 - 130	1	30
Hexane			50.0	58.55		ug/L		117	70 - 130	3	30
1,3,5-Trimethylbenzene			50.0	59.24		ug/L		118	70 - 130	0	30
n-Heptane			50.0	57.08		ug/L		114	65 - 120	2	30
Vinyl acetate			100	64.95	*-	ug/L		65	67 - 135	4	30
Vinyl chloride			50.0	72.18	*+	ug/L		144	66 - 129	1	30
Xylenes, Total			100	107.2		ug/L		107	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 680-825656/10
Matrix: Water
Analysis Batch: 825656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.748	J	10.0	3.70	ug/L			03/04/24 13:20	1
Benzene	<0.270		1.00	0.270	ug/L			03/04/24 13:20	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/04/24 13:20	1
Bromoform	<0.590		1.00	0.590	ug/L			03/04/24 13:20	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/04/24 13:20	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/04/24 13:20	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/04/24 13:20	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/04/24 13:20	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/04/24 13:20	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/04/24 13:20	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/04/24 13:20	1
Chloroform	<0.270		1.00	0.270	ug/L			03/04/24 13:20	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/04/24 13:20	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/04/24 13:20	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/04/24 13:20	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/04/24 13:20	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/04/24 13:20	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/04/24 13:20	1

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

Lab Sample ID: MB 680-825656/10
Matrix: Water
Analysis Batch: 825656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 13:20	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 13:20	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/04/24 13:20	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/04/24 13:20	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/04/24 13:20	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/04/24 13:20	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/04/24 13:20	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/04/24 13:20	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/04/24 13:20	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/04/24 13:20	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/04/24 13:20	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/04/24 13:20	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/04/24 13:20	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/04/24 13:20	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/04/24 13:20	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/04/24 13:20	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/04/24 13:20	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/04/24 13:20	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/04/24 13:20	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/04/24 13:20	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/04/24 13:20	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/04/24 13:20	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/04/24 13:20	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/04/24 13:20	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/04/24 13:20	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/04/24 13:20	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/04/24 13:20	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/04/24 13:20	1
Styrene	<0.270		1.00	0.270	ug/L			03/04/24 13:20	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/04/24 13:20	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/04/24 13:20	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/04/24 13:20	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/04/24 13:20	1
Toluene	0.9016	J	1.00	0.250	ug/L			03/04/24 13:20	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/04/24 13:20	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/04/24 13:20	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/04/24 13:20	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/04/24 13:20	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/04/24 13:20	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/04/24 13:20	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/04/24 13:20	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/04/24 13:20	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/04/24 13:20	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/04/24 13:20	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/04/24 13:20	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/04/24 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/04/24 13:20	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/04/24 13:20	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/04/24 13:20	1

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

Lab Sample ID: MB 680-825656/10
Matrix: Water
Analysis Batch: 825656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	<0.650		5.00	0.650	ug/L			03/04/24 13:20	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/04/24 13:20	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/04/24 13:20	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/04/24 13:20	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/04/24 13:20	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/04/24 13:20	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/04/24 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/04/24 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*03/04/24 13:20*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*03/04/24 13:20*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/04/24 13:20*	*1*

Lab Sample ID: LCS 680-825656/5
Matrix: Water
Analysis Batch: 825656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	242.3		ug/L		97	67 - 120
Benzene	50.0	50.37		ug/L		101	70 - 130
Bromobenzene	50.0	52.77		ug/L		106	70 - 130
Bromoform	50.0	48.82		ug/L		98	69 - 129
Bromomethane	50.0	53.47		ug/L		107	28 - 192
2-Butanone (MEK)	250	268.2		ug/L		107	69 - 120
Chlorobromomethane	50.0	53.99		ug/L		108	70 - 130
Carbon disulfide	50.0	46.39		ug/L		93	70 - 130
Carbon tetrachloride	50.0	48.67		ug/L		97	70 - 130
Chlorobenzene	50.0	51.47		ug/L		103	70 - 130
Chloroethane	50.0	49.72		ug/L		99	31 - 213
Chloroform	50.0	52.19		ug/L		104	70 - 130
Chloromethane	50.0	53.59		ug/L		107	59 - 127
2-Chlorotoluene	50.0	50.52		ug/L		101	70 - 130
4-Chlorotoluene	50.0	49.65		ug/L		99	70 - 130
Chlorodibromomethane	50.0	50.36		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.16		ug/L		100	70 - 130
Dibromomethane	50.0	55.54		ug/L		111	70 - 130
1,2-Dichlorobenzene	50.0	53.00		ug/L		106	70 - 130
1,3-Dichlorobenzene	50.0	50.69		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	52.12		ug/L		104	70 - 130
Dichlorobromomethane	50.0	55.14		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	55.37		ug/L		111	70 - 130
1,1-Dichloroethane	50.0	49.14		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	51.95		ug/L		104	70 - 130
cis-1,2-Dichloroethene	50.0	51.87		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	47.40		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	53.55		ug/L		107	70 - 130
1,3-Dichloropropane	50.0	53.82		ug/L		108	70 - 130

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

Lab Sample ID: LCS 680-825656/5
Matrix: Water
Analysis Batch: 825656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	50.0	49.78		ug/L		100	70 - 130
1,1-Dichloropropene	50.0	48.09		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	51.45		ug/L		103	70 - 130
Ethylene Dibromide	50.0	51.42		ug/L		103	70 - 130
Ethylbenzene	50.0	50.15		ug/L		100	70 - 130
Hexachlorobutadiene	50.0	52.55		ug/L		105	70 - 130
2-Hexanone	250	277.4		ug/L		111	70 - 130
Iodomethane	50.0	45.00		ug/L		90	52 - 129
Isopropylbenzene	50.0	50.20		ug/L		100	70 - 130
4-Isopropyltoluene	50.0	51.94		ug/L		104	70 - 130
Methylene Chloride	50.0	50.86		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	250	278.6		ug/L		111	68 - 120
Methyl tert-butyl ether	50.0	53.49		ug/L		107	70 - 130
Naphthalene	50.0	51.57		ug/L		103	57 - 149
n-Butylbenzene	50.0	51.49		ug/L		103	70 - 130
N-Propylbenzene	50.0	50.24		ug/L		100	70 - 130
sec-Butylbenzene	50.0	49.80		ug/L		100	70 - 130
Styrene	50.0	54.88		ug/L		110	70 - 130
tert-Butylbenzene	50.0	49.54		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.44		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.87		ug/L		114	70 - 130
Tetrachloroethene	50.0	49.92		ug/L		100	70 - 130
Toluene	50.0	49.42		ug/L		99	70 - 130
trans-1,4-Dichloro-2-butene	50.0	53.29		ug/L		107	67 - 120
trans-1,2-Dichloroethene	50.0	49.39		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	49.76		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	50.0	55.84		ug/L		112	61 - 141
1,2,4-Trichlorobenzene	50.0	54.01		ug/L		108	70 - 130
1,1,1-Trichloroethane	50.0	48.62		ug/L		97	70 - 130
o-Xylene	50.0	51.35		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	55.24		ug/L		110	70 - 130
m-Xylene & p-Xylene	50.0	49.14		ug/L		98	70 - 130
Trichloroethene	50.0	52.01		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	49.50		ug/L		99	63 - 142
1,2,3-Trichloropropane	50.0	54.12		ug/L		108	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.22		ug/L		94	63 - 141
1,2,4-Trimethylbenzene	50.0	49.99		ug/L		100	70 - 130
Hexane	50.0	47.80		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	50.0	50.50		ug/L		101	70 - 130
n-Heptane	50.0	50.15		ug/L		100	65 - 120
Vinyl acetate	100	148.6	*+	ug/L		149	67 - 135
Vinyl chloride	50.0	50.79		ug/L		102	66 - 129
Xylenes, Total	100	100.5		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*

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

Lab Sample ID: LCS 680-825656/5
Matrix: Water
Analysis Batch: 825656

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-825656/6
Matrix: Water
Analysis Batch: 825656

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
Acetone			250	239.6		ug/L		96	67 - 120	1	30
Benzene			50.0	50.02		ug/L		100	70 - 130	1	30
Bromobenzene			50.0	52.93		ug/L		106	70 - 130	0	30
Bromoform			50.0	49.37		ug/L		99	69 - 129	1	30
Bromomethane			50.0	52.34		ug/L		105	28 - 192	2	30
2-Butanone (MEK)			250	255.1		ug/L		102	69 - 120	5	30
Chlorobromomethane			50.0	53.65		ug/L		107	70 - 130	1	30
Carbon disulfide			50.0	46.79		ug/L		94	70 - 130	1	30
Carbon tetrachloride			50.0	48.78		ug/L		98	70 - 130	0	30
Chlorobenzene			50.0	51.45		ug/L		103	70 - 130	0	30
Chloroethane			50.0	51.98		ug/L		104	31 - 213	4	30
Chloroform			50.0	51.81		ug/L		104	70 - 130	1	30
Chloromethane			50.0	54.36		ug/L		109	59 - 127	1	30
2-Chlorotoluene			50.0	51.22		ug/L		102	70 - 130	1	30
4-Chlorotoluene			50.0	51.28		ug/L		103	70 - 130	3	30
Chlorodibromomethane			50.0	48.72		ug/L		97	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	49.26		ug/L		99	70 - 130	2	30
Dibromomethane			50.0	52.62		ug/L		105	70 - 130	5	30
1,2-Dichlorobenzene			50.0	53.64		ug/L		107	70 - 130	1	30
1,3-Dichlorobenzene			50.0	52.12		ug/L		104	70 - 130	3	30
1,4-Dichlorobenzene			50.0	52.01		ug/L		104	70 - 130	0	30
Dichlorobromomethane			50.0	53.82		ug/L		108	70 - 130	2	30
Dichlorodifluoromethane			50.0	57.04		ug/L		114	70 - 130	3	40
1,1-Dichloroethane			50.0	48.75		ug/L		97	70 - 130	1	30
1,2-Dichloroethane			50.0	51.15		ug/L		102	70 - 130	2	50
cis-1,2-Dichloroethene			50.0	52.08		ug/L		104	70 - 130	0	30
1,1-Dichloroethene			50.0	48.03		ug/L		96	70 - 130	1	20
1,2-Dichloropropane			50.0	53.54		ug/L		107	70 - 130	0	20
1,3-Dichloropropane			50.0	51.19		ug/L		102	70 - 130	5	20
2,2-Dichloropropane			50.0	49.86		ug/L		100	70 - 130	0	20
1,1-Dichloropropene			50.0	48.75		ug/L		97	70 - 130	1	20
cis-1,3-Dichloropropene			50.0	51.91		ug/L		104	70 - 130	1	20
Ethylene Dibromide			50.0	49.95		ug/L		100	70 - 130	3	30
Ethylbenzene			50.0	51.25		ug/L		102	70 - 130	2	20
Hexachlorobutadiene			50.0	53.16		ug/L		106	70 - 130	1	20
2-Hexanone			250	269.8		ug/L		108	70 - 130	3	20
Iodomethane			50.0	46.77		ug/L		94	52 - 129	4	30
Isopropylbenzene			50.0	51.28		ug/L		103	70 - 130	2	30
4-Isopropyltoluene			50.0	52.66		ug/L		105	70 - 130	1	30
Methylene Chloride			50.0	50.15		ug/L		100	70 - 130	1	30

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

Lab Sample ID: LCSD 680-825656/6
Matrix: Water
Analysis Batch: 825656

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
4-Methyl-2-pentanone (MIBK)	250	267.1		ug/L		107	68 - 120	4	30
Methyl tert-butyl ether	50.0	51.25		ug/L		103	70 - 130	4	30
Naphthalene	50.0	51.45		ug/L		103	57 - 149	0	30
n-Butylbenzene	50.0	51.75		ug/L		103	70 - 130	0	30
N-Propylbenzene	50.0	51.07		ug/L		102	70 - 130	2	30
sec-Butylbenzene	50.0	50.65		ug/L		101	70 - 130	2	30
Styrene	50.0	54.27		ug/L		109	70 - 130	1	30
tert-Butylbenzene	50.0	52.02		ug/L		104	70 - 130	5	30
1,1,1,2-Tetrachloroethane	50.0	52.06		ug/L		104	70 - 130	3	30
1,1,2,2-Tetrachloroethane	50.0	57.36		ug/L		115	70 - 130	1	30
Tetrachloroethene	50.0	48.66		ug/L		97	70 - 130	3	30
Toluene	50.0	50.20		ug/L		100	70 - 130	2	30
trans-1,4-Dichloro-2-butene	50.0	54.39		ug/L		109	67 - 120	2	30
trans-1,2-Dichloroethene	50.0	48.84		ug/L		98	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	49.26		ug/L		99	70 - 130	1	30
1,2,3-Trichlorobenzene	50.0	54.64		ug/L		109	61 - 141	2	30
1,2,4-Trichlorobenzene	50.0	53.34		ug/L		107	70 - 130	1	30
1,1,1-Trichloroethane	50.0	48.88		ug/L		98	70 - 130	1	30
o-Xylene	50.0	52.27		ug/L		105	70 - 130	2	30
1,1,2-Trichloroethane	50.0	54.27		ug/L		109	70 - 130	2	30
m-Xylene & p-Xylene	50.0	50.88		ug/L		102	70 - 130	3	30
Trichloroethene	50.0	51.36		ug/L		103	70 - 130	1	30
Trichlorofluoromethane	50.0	49.57		ug/L		99	63 - 142	0	30
1,2,3-Trichloropropane	50.0	51.59		ug/L		103	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.76		ug/L		98	63 - 141	3	30
1,2,4-Trimethylbenzene	50.0	50.94		ug/L		102	70 - 130	2	30
Hexane	50.0	47.30		ug/L		95	70 - 130	1	30
1,3,5-Trimethylbenzene	50.0	50.94		ug/L		102	70 - 130	1	30
n-Heptane	50.0	50.96		ug/L		102	65 - 120	2	30
Vinyl acetate	100	144.9	*+	ug/L		145	67 - 135	3	30
Vinyl chloride	50.0	51.61		ug/L		103	66 - 129	2	30
Xylenes, Total	100	103.2		ug/L		103	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/06/24 13:50	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1

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

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/06/24 13:50	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/06/24 13:50	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/06/24 13:50	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/06/24 13:50	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/06/24 13:50	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/06/24 13:50	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/06/24 13:50	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/06/24 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/06/24 13:50	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/06/24 13:50	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/06/24 13:50	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/06/24 13:50	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/06/24 13:50	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/06/24 13:50	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/06/24 13:50	1

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

Lab Sample ID: MB 680-826047/8
Matrix: Solid
Analysis Batch: 826047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/06/24 13:50	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/06/24 13:50	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/06/24 13:50	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/06/24 13:50	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/06/24 13:50	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/06/24 13:50	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/06/24 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/06/24 13:50	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/06/24 13:50	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/06/24 13:50	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/06/24 13:50	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/06/24 13:50	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/06/24 13:50	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/06/24 13:50	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/06/24 13:50	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/06/24 13:50	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/06/24 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*		*03/06/24 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*		*03/06/24 13:50*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*		*03/06/24 13:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*		*03/06/24 13:50*	*1*

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2411		mg/Kg		96	10 - 150
Benzene	0.0500	0.05189		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.05372		mg/Kg		107	70 - 130
Bromoform	0.0500	0.04865		mg/Kg		97	68 - 130
Bromomethane	0.0500	0.06027		mg/Kg		121	70 - 130
2-Butanone (MEK)	0.250	0.2437		mg/Kg		97	40 - 150
Chlorobromomethane	0.0500	0.05276		mg/Kg		106	66 - 130
Carbon disulfide	0.0500	0.05098		mg/Kg		102	70 - 130
Carbon tetrachloride	0.0500	0.05391		mg/Kg		108	70 - 130
Chlorobenzene	0.0500	0.05165		mg/Kg		103	70 - 130
Chloroethane	0.0500	0.04350		mg/Kg		87	70 - 130
Chloroform	0.0500	0.05366		mg/Kg		107	70 - 130
Chloromethane	0.0500	0.05002		mg/Kg		100	70 - 130
2-Chlorotoluene	0.0500	0.05413		mg/Kg		108	70 - 130
4-Chlorotoluene	0.0500	0.05466		mg/Kg		109	70 - 130

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

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	0.0500	0.05211		mg/Kg		104	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04645		mg/Kg		93	42 - 145
Dibromomethane	0.0500	0.05248		mg/Kg		105	59 - 142
1,2-Dichlorobenzene	0.0500	0.04969		mg/Kg		99	70 - 130
1,3-Dichlorobenzene	0.0500	0.05252		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0500	0.05285		mg/Kg		106	70 - 130
Dichlorobromomethane	0.0500	0.05473		mg/Kg		109	70 - 130
Dichlorodifluoromethane	0.0500	0.05772		mg/Kg		115	43 - 131
1,1-Dichloroethane	0.0500	0.05200		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0500	0.05344		mg/Kg		107	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05233		mg/Kg		105	70 - 130
1,1-Dichloroethene	0.0500	0.05013		mg/Kg		100	69 - 130
1,2-Dichloropropane	0.0500	0.05043		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0500	0.05186		mg/Kg		104	54 - 150
2,2-Dichloropropane	0.0500	0.05404		mg/Kg		108	70 - 130
1,1-Dichloropropene	0.0500	0.05330		mg/Kg		107	70 - 130
cis-1,3-Dichloropropene	0.0500	0.05243		mg/Kg		105	70 - 130
Ethylene Dibromide	0.0500	0.05240		mg/Kg		105	48 - 150
Ethylbenzene	0.0500	0.05365		mg/Kg		107	70 - 130
Hexachlorobutadiene	0.0500	0.05482		mg/Kg		110	70 - 130
2-Hexanone	0.250	0.2453		mg/Kg		98	30 - 150
Iodomethane	0.0500	0.04999		mg/Kg		100	65 - 138
Isopropylbenzene	0.0500	0.05969		mg/Kg		119	70 - 130
4-Isopropyltoluene	0.0500	0.05668		mg/Kg		113	70 - 130
Methylene Chloride	0.0500	0.05214		mg/Kg		104	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2428		mg/Kg		97	34 - 150
Methyl tert-butyl ether	0.0500	0.05126		mg/Kg		103	70 - 130
Naphthalene	0.0500	0.04713		mg/Kg		94	46 - 150
n-Butylbenzene	0.0500	0.05681		mg/Kg		114	70 - 130
N-Propylbenzene	0.0500	0.05712		mg/Kg		114	70 - 130
sec-Butylbenzene	0.0500	0.05682		mg/Kg		114	69 - 142
Styrene	0.0500	0.05246		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0500	0.05546		mg/Kg		111	67 - 145
1,1,1,2-Tetrachloroethane	0.0500	0.04927		mg/Kg		99	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04998		mg/Kg		100	64 - 130
Tetrachloroethene	0.0500	0.05466		mg/Kg		109	70 - 130
Toluene	0.0500	0.05318		mg/Kg		106	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04741		mg/Kg		95	54 - 150
trans-1,2-Dichloroethene	0.0500	0.05150		mg/Kg		103	67 - 130
trans-1,3-Dichloropropene	0.0500	0.05352		mg/Kg		107	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04965		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.05181		mg/Kg		104	70 - 130
1,1,1-Trichloroethane	0.0500	0.05320		mg/Kg		106	70 - 130
o-Xylene	0.0500	0.05493		mg/Kg		110	70 - 130
1,1,2-Trichloroethane	0.0500	0.05127		mg/Kg		103	56 - 146
m-Xylene & p-Xylene	0.0500	0.05365		mg/Kg		107	70 - 130
Trichloroethene	0.0500	0.05164		mg/Kg		103	70 - 130
Trichlorofluoromethane	0.0500	0.05123		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	0.0500	0.04834		mg/Kg		97	64 - 130

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

Lab Sample ID: LCS 680-826047/5
Matrix: Solid
Analysis Batch: 826047

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05072		mg/Kg		101	70 - 130		
1,2,4-Trimethylbenzene			0.0500	0.05713		mg/Kg		114	70 - 130		
Hexane			0.0500	0.05317		mg/Kg		106	70 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05688		mg/Kg		114	70 - 130		
n-Heptane			0.0500	0.05058		mg/Kg		101	70 - 130		
Vinyl acetate			0.100	0.1491		mg/Kg		149	53 - 150		
Vinyl chloride			0.0500	0.04883		mg/Kg		98	70 - 130		
Xylenes, Total			0.100	0.1086		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 130*
Dibromofluoromethane (Surr)	*108*		*65 - 130*
4-Bromofluorobenzene (Surr)	*95*		*65 - 130*

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
Acetone			0.250	0.2236		mg/Kg		89	10 - 150	8	50
Benzene			0.0500	0.04745		mg/Kg		95	70 - 130	9	30
Bromobenzene			0.0500	0.04801		mg/Kg		96	70 - 130	11	30
Bromoform			0.0500	0.04518		mg/Kg		90	68 - 130	7	30
Bromomethane			0.0500	0.06152		mg/Kg		123	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2237		mg/Kg		89	40 - 150	9	30
Chlorobromomethane			0.0500	0.04725		mg/Kg		95	66 - 130	11	30
Carbon disulfide			0.0500	0.04905		mg/Kg		98	70 - 130	4	30
Carbon tetrachloride			0.0500	0.05007		mg/Kg		100	70 - 130	7	30
Chlorobenzene			0.0500	0.04741		mg/Kg		95	70 - 130	9	30
Chloroethane			0.0500	0.04036		mg/Kg		81	70 - 130	7	30
Chloroform			0.0500	0.04787		mg/Kg		96	70 - 130	11	30
Chloromethane			0.0500	0.04922		mg/Kg		98	70 - 130	2	30
2-Chlorotoluene			0.0500	0.04930		mg/Kg		99	70 - 130	9	30
4-Chlorotoluene			0.0500	0.04905		mg/Kg		98	70 - 130	11	30
Chlorodibromomethane			0.0500	0.04736		mg/Kg		95	64 - 133	10	30
1,2-Dibromo-3-Chloropropane			0.0500	0.04433		mg/Kg		89	42 - 145	5	30
Dibromomethane			0.0500	0.04743		mg/Kg		95	59 - 142	10	30
1,2-Dichlorobenzene			0.0500	0.04637		mg/Kg		93	70 - 130	7	30
1,3-Dichlorobenzene			0.0500	0.04841		mg/Kg		97	70 - 130	8	30
1,4-Dichlorobenzene			0.0500	0.04831		mg/Kg		97	70 - 130	9	30
Dichlorobromomethane			0.0500	0.04962		mg/Kg		99	70 - 130	10	30
Dichlorodifluoromethane			0.0500	0.05668		mg/Kg		113	43 - 131	2	30
1,1-Dichloroethane			0.0500	0.04718		mg/Kg		94	70 - 130	10	30
1,2-Dichloroethane			0.0500	0.04908		mg/Kg		98	68 - 139	8	30
cis-1,2-Dichloroethene			0.0500	0.04801		mg/Kg		96	70 - 130	9	30
1,1-Dichloroethene			0.0500	0.04356		mg/Kg		87	69 - 130	14	50
1,2-Dichloropropane			0.0500	0.04655		mg/Kg		93	70 - 130	8	30

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

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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
1,3-Dichloropropane			0.0500	0.04663		mg/Kg		93	54 - 150	11	30
2,2-Dichloropropane			0.0500	0.04915		mg/Kg		98	70 - 130	9	30
1,1-Dichloropropene			0.0500	0.04867		mg/Kg		97	70 - 130	9	30
cis-1,3-Dichloropropene			0.0500	0.04779		mg/Kg		96	70 - 130	9	30
Ethylene Dibromide			0.0500	0.04776		mg/Kg		96	48 - 150	9	30
Ethylbenzene			0.0500	0.04873		mg/Kg		97	70 - 130	10	30
Hexachlorobutadiene			0.0500	0.04908		mg/Kg		98	70 - 130	11	30
2-Hexanone			0.250	0.2217		mg/Kg		89	30 - 150	10	30
Iodomethane			0.0500	0.05106		mg/Kg		102	65 - 138	2	30
Isopropylbenzene			0.0500	0.05491		mg/Kg		110	70 - 130	8	30
4-Isopropyltoluene			0.0500	0.05194		mg/Kg		104	70 - 130	9	30
Methylene Chloride			0.0500	0.04710		mg/Kg		94	54 - 149	10	30
4-Methyl-2-pentanone (MIBK)			0.250	0.2208		mg/Kg		88	34 - 150	9	30
Methyl tert-butyl ether			0.0500	0.04613		mg/Kg		92	70 - 130	11	30
Naphthalene			0.0500	0.04339		mg/Kg		87	46 - 150	8	30
n-Butylbenzene			0.0500	0.05183		mg/Kg		104	70 - 130	9	30
N-Propylbenzene			0.0500	0.05139		mg/Kg		103	70 - 130	11	30
sec-Butylbenzene			0.0500	0.05143		mg/Kg		103	69 - 142	10	30
Styrene			0.0500	0.04798		mg/Kg		96	70 - 130	9	30
tert-Butylbenzene			0.0500	0.05037		mg/Kg		101	67 - 145	10	30
1,1,1,2-Tetrachloroethane			0.0500	0.04523		mg/Kg		90	70 - 130	9	30
1,1,2,2-Tetrachloroethane			0.0500	0.04622		mg/Kg		92	64 - 130	8	30
Tetrachloroethene			0.0500	0.04983		mg/Kg		100	70 - 130	9	30
Toluene			0.0500	0.04831		mg/Kg		97	70 - 130	10	30
trans-1,4-Dichloro-2-butene			0.0500	0.04431		mg/Kg		89	54 - 150	7	30
trans-1,2-Dichloroethene			0.0500	0.04847		mg/Kg		97	67 - 130	6	30
trans-1,3-Dichloropropene			0.0500	0.04813		mg/Kg		96	54 - 150	11	30
1,2,3-Trichlorobenzene			0.0500	0.04510		mg/Kg		90	70 - 130	10	30
1,2,4-Trichlorobenzene			0.0500	0.04654		mg/Kg		93	70 - 130	11	30
1,1,1-Trichloroethane			0.0500	0.04948		mg/Kg		99	70 - 130	7	30
o-Xylene			0.0500	0.05016		mg/Kg		100	70 - 130	9	30
1,1,2-Trichloroethane			0.0500	0.04645		mg/Kg		93	56 - 146	10	30
m-Xylene & p-Xylene			0.0500	0.04863		mg/Kg		97	70 - 130	10	30
Trichloroethene			0.0500	0.04795		mg/Kg		96	70 - 130	7	30
Trichlorofluoromethane			0.0500	0.05326		mg/Kg		107	70 - 130	4	30
1,2,3-Trichloropropane			0.0500	0.04418		mg/Kg		88	64 - 130	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05030		mg/Kg		101	70 - 130	1	40
1,2,4-Trimethylbenzene			0.0500	0.05133		mg/Kg		103	70 - 130	11	30
Hexane			0.0500	0.04928		mg/Kg		99	70 - 130	8	30
1,3,5-Trimethylbenzene			0.0500	0.05137		mg/Kg		103	70 - 130	10	30
n-Heptane			0.0500	0.04746		mg/Kg		95	70 - 130	6	30
Vinyl acetate			0.100	0.1363		mg/Kg		136	53 - 150	9	30
Vinyl chloride			0.0500	0.04945		mg/Kg		99	70 - 130	1	30
Xylenes, Total			0.100	0.09879		mg/Kg		99	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*65 - 130*

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

Lab Sample ID: LCSD 680-826047/6
Matrix: Solid
Analysis Batch: 826047

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 130*
Dibromofluoromethane (Surr)	*99*		*65 - 130*
4-Bromofluorobenzene (Surr)	*89*		*65 - 130*

Lab Sample ID: MB 680-826213/9
Matrix: Solid
Analysis Batch: 826213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.01795	J	0.0500	0.0110	mg/Kg			03/07/24 11:45	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/07/24 11:45	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/07/24 11:45	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/07/24 11:45	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/07/24 11:45	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/07/24 11:45	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/07/24 11:45	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/07/24 11:45	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1

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

Lab Sample ID: MB 680-826213/9
Matrix: Solid
Analysis Batch: 826213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/07/24 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/07/24 11:45	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Naphthalene	0.003843	J	0.00500	0.00310	mg/Kg			03/07/24 11:45	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:45	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/07/24 11:45	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/07/24 11:45	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/07/24 11:45	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/07/24 11:45	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/07/24 11:45	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/07/24 11:45	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/07/24 11:45	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/07/24 11:45	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/07/24 11:45	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/07/24 11:45	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/07/24 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/07/24 11:45	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/07/24 11:45	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/07/24 11:45	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/07/24 11:45	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/07/24 11:45	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/07/24 11:45	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/07/24 11:45	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/07/24 11:45	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/07/24 11:45	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/07/24 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*128*		*65 - 130*		*03/07/24 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 130*		*03/07/24 11:45*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*		*03/07/24 11:45*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*		*03/07/24 11:45*	*1*

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2235		mg/Kg		89	10 - 150

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

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05191		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.04992		mg/Kg		100	70 - 130
Bromoform	0.0500	0.04289		mg/Kg		86	68 - 130
Bromomethane	0.0500	0.07725	*+	mg/Kg		154	70 - 130
2-Butanone (MEK)	0.250	0.2576		mg/Kg		103	40 - 150
Chlorobromomethane	0.0500	0.05675		mg/Kg		114	66 - 130
Carbon disulfide	0.0500	0.05834		mg/Kg		117	70 - 130
Carbon tetrachloride	0.0500	0.05172		mg/Kg		103	70 - 130
Chlorobenzene	0.0500	0.04984		mg/Kg		100	70 - 130
Chloroethane	0.0500	0.05826		mg/Kg		117	70 - 130
Chloroform	0.0500	0.05039		mg/Kg		101	70 - 130
Chloromethane	0.0500	0.05190		mg/Kg		104	70 - 130
2-Chlorotoluene	0.0500	0.05130		mg/Kg		103	70 - 130
4-Chlorotoluene	0.0500	0.05140		mg/Kg		103	70 - 130
Chlorodibromomethane	0.0500	0.04766		mg/Kg		95	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04144		mg/Kg		83	42 - 145
Dibromomethane	0.0500	0.05088		mg/Kg		102	59 - 142
1,2-Dichlorobenzene	0.0500	0.04967		mg/Kg		99	70 - 130
1,3-Dichlorobenzene	0.0500	0.05147		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0500	0.05095		mg/Kg		102	70 - 130
Dichlorobromomethane	0.0500	0.05175		mg/Kg		104	70 - 130
Dichlorodifluoromethane	0.0500	0.06134		mg/Kg		123	43 - 131
1,1-Dichloroethane	0.0500	0.05363		mg/Kg		107	70 - 130
1,2-Dichloroethane	0.0500	0.05242		mg/Kg		105	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05158		mg/Kg		103	70 - 130
1,1-Dichloroethene	0.0500	0.05414		mg/Kg		108	69 - 130
1,2-Dichloropropane	0.0500	0.04935		mg/Kg		99	70 - 130
1,3-Dichloropropane	0.0500	0.04992		mg/Kg		100	54 - 150
2,2-Dichloropropane	0.0500	0.05300		mg/Kg		106	70 - 130
1,1-Dichloropropene	0.0500	0.04800		mg/Kg		96	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04940		mg/Kg		99	70 - 130
Ethylene Dibromide	0.0500	0.04819		mg/Kg		96	48 - 150
Ethylbenzene	0.0500	0.05164		mg/Kg		103	70 - 130
Hexachlorobutadiene	0.0500	0.05004		mg/Kg		100	70 - 130
2-Hexanone	0.250	0.2667		mg/Kg		107	30 - 150
Iodomethane	0.0500	0.05827		mg/Kg		117	65 - 138
Isopropylbenzene	0.0500	0.05642		mg/Kg		113	70 - 130
4-Isopropyltoluene	0.0500	0.05403		mg/Kg		108	70 - 130
Methylene Chloride	0.0500	0.05477		mg/Kg		110	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2656		mg/Kg		106	34 - 150
Methyl tert-butyl ether	0.0500	0.04900		mg/Kg		98	70 - 130
Naphthalene	0.0500	0.04190		mg/Kg		84	46 - 150
n-Butylbenzene	0.0500	0.05524		mg/Kg		110	70 - 130
N-Propylbenzene	0.0500	0.05382		mg/Kg		108	70 - 130
sec-Butylbenzene	0.0500	0.05491		mg/Kg		110	69 - 142
Styrene	0.0500	0.05111		mg/Kg		102	70 - 130
tert-Butylbenzene	0.0500	0.05310		mg/Kg		106	67 - 145
1,1,1,2-Tetrachloroethane	0.0500	0.04437		mg/Kg		89	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04623		mg/Kg		92	64 - 130

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

Lab Sample ID: LCS 680-826213/5
Matrix: Solid
Analysis Batch: 826213

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			0.0500	0.05279		mg/Kg		106	70 - 130		
Toluene			0.0500	0.05485		mg/Kg		110	70 - 130		
trans-1,4-Dichloro-2-butene			0.0500	0.04543		mg/Kg		91	54 - 150		
trans-1,2-Dichloroethene			0.0500	0.04804		mg/Kg		96	67 - 130		
trans-1,3-Dichloropropene			0.0500	0.05087		mg/Kg		102	54 - 150		
1,2,3-Trichlorobenzene			0.0500	0.04661		mg/Kg		93	70 - 130		
1,2,4-Trichlorobenzene			0.0500	0.04743		mg/Kg		95	70 - 130		
1,1,1-Trichloroethane			0.0500	0.05364		mg/Kg		107	70 - 130		
o-Xylene			0.0500	0.05278		mg/Kg		106	70 - 130		
1,1,2-Trichloroethane			0.0500	0.04926		mg/Kg		99	56 - 146		
m-Xylene & p-Xylene			0.0500	0.05181		mg/Kg		104	70 - 130		
Trichloroethene			0.0500	0.04633		mg/Kg		93	70 - 130		
Trichlorofluoromethane			0.0500	0.05322		mg/Kg		106	70 - 130		
1,2,3-Trichloropropane			0.0500	0.04452		mg/Kg		89	64 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05268		mg/Kg		105	70 - 130		
1,2,4-Trimethylbenzene			0.0500	0.05525		mg/Kg		111	70 - 130		
Hexane			0.0500	0.05142		mg/Kg		103	70 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05360		mg/Kg		107	70 - 130		
n-Heptane			0.0500	0.05290		mg/Kg		106	70 - 130		
Vinyl acetate			0.100	0.1083		mg/Kg		108	53 - 150		
Vinyl chloride			0.0500	0.05632		mg/Kg		113	70 - 130		
Xylenes, Total			0.100	0.1046		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*
Dibromofluoromethane (Surr)	*102*		*65 - 130*
4-Bromofluorobenzene (Surr)	*99*		*65 - 130*

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
Acetone			0.250	0.2344		mg/Kg		94	10 - 150	5	50
Benzene			0.0500	0.05091		mg/Kg		102	70 - 130	2	30
Bromobenzene			0.0500	0.05042		mg/Kg		101	70 - 130	1	30
Bromoform			0.0500	0.04310		mg/Kg		86	68 - 130	0	30
2-Butanone (MEK)			0.250	0.2577		mg/Kg		103	40 - 150	0	30
Chlorobromomethane			0.0500	0.06522		mg/Kg		130	66 - 130	14	30
Carbon disulfide			0.0500	0.05784		mg/Kg		116	70 - 130	1	30
Carbon tetrachloride			0.0500	0.05187		mg/Kg		104	70 - 130	0	30
Chlorobenzene			0.0500	0.04874		mg/Kg		97	70 - 130	2	30
Chloroform			0.0500	0.04917		mg/Kg		98	70 - 130	2	30
Chloromethane			0.0500	0.06173		mg/Kg		123	70 - 130	17	30
2-Chlorotoluene			0.0500	0.05037		mg/Kg		101	70 - 130	2	30
4-Chlorotoluene			0.0500	0.04994		mg/Kg		100	70 - 130	3	30
Chlorodibromomethane			0.0500	0.04752		mg/Kg		95	64 - 133	0	30

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

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
1,2-Dibromo-3-Chloropropane	0.0500	0.04136		mg/Kg		83	42 - 145	0	30
Dibromomethane	0.0500	0.05009		mg/Kg		100	59 - 142	2	30
1,2-Dichlorobenzene	0.0500	0.04834		mg/Kg		97	70 - 130	3	30
1,3-Dichlorobenzene	0.0500	0.04876		mg/Kg		98	70 - 130	5	30
1,4-Dichlorobenzene	0.0500	0.04999		mg/Kg		100	70 - 130	2	30
Dichlorobromomethane	0.0500	0.05087		mg/Kg		102	70 - 130	2	30
1,1-Dichloroethane	0.0500	0.05218		mg/Kg		104	70 - 130	3	30
1,2-Dichloroethane	0.0500	0.05091		mg/Kg		102	68 - 139	3	30
cis-1,2-Dichloroethene	0.0500	0.05137		mg/Kg		103	70 - 130	0	30
1,1-Dichloroethene	0.0500	0.05005		mg/Kg		100	69 - 130	8	50
1,2-Dichloropropane	0.0500	0.04849		mg/Kg		97	70 - 130	2	30
1,3-Dichloropropane	0.0500	0.04850		mg/Kg		97	54 - 150	3	30
2,2-Dichloropropane	0.0500	0.05143		mg/Kg		103	70 - 130	3	30
1,1-Dichloropropene	0.0500	0.04753		mg/Kg		95	70 - 130	1	30
cis-1,3-Dichloropropene	0.0500	0.04783		mg/Kg		96	70 - 130	3	30
Ethylene Dibromide	0.0500	0.04770		mg/Kg		95	48 - 150	1	30
Ethylbenzene	0.0500	0.05001		mg/Kg		100	70 - 130	3	30
Hexachlorobutadiene	0.0500	0.04785		mg/Kg		96	70 - 130	4	30
2-Hexanone	0.250	0.2613		mg/Kg		105	30 - 150	2	30
Iodomethane	0.0500	0.05952		mg/Kg		119	65 - 138	2	30
Isopropylbenzene	0.0500	0.05485		mg/Kg		110	70 - 130	3	30
4-Isopropyltoluene	0.0500	0.05046		mg/Kg		101	70 - 130	7	30
Methylene Chloride	0.0500	0.05525		mg/Kg		111	54 - 149	1	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2636		mg/Kg		105	34 - 150	1	30
Methyl tert-butyl ether	0.0500	0.04796		mg/Kg		96	70 - 130	2	30
Naphthalene	0.0500	0.04136		mg/Kg		83	46 - 150	1	30
n-Butylbenzene	0.0500	0.05027		mg/Kg		101	70 - 130	9	30
N-Propylbenzene	0.0500	0.05218		mg/Kg		104	70 - 130	3	30
sec-Butylbenzene	0.0500	0.05211		mg/Kg		104	69 - 142	5	30
Styrene	0.0500	0.04973		mg/Kg		99	70 - 130	3	30
tert-Butylbenzene	0.0500	0.05140		mg/Kg		103	67 - 145	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.04417		mg/Kg		88	70 - 130	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.04532		mg/Kg		91	64 - 130	2	30
Tetrachloroethene	0.0500	0.05285		mg/Kg		106	70 - 130	0	30
Toluene	0.0500	0.05343		mg/Kg		107	70 - 130	3	30
trans-1,4-Dichloro-2-butene	0.0500	0.04570		mg/Kg		91	54 - 150	1	30
trans-1,2-Dichloroethene	0.0500	0.04619		mg/Kg		92	67 - 130	4	30
trans-1,3-Dichloropropene	0.0500	0.04936		mg/Kg		99	54 - 150	3	30
1,2,3-Trichlorobenzene	0.0500	0.04571		mg/Kg		91	70 - 130	2	30
1,2,4-Trichlorobenzene	0.0500	0.04694		mg/Kg		94	70 - 130	1	30
1,1,1-Trichloroethane	0.0500	0.05289		mg/Kg		106	70 - 130	1	30
o-Xylene	0.0500	0.05050		mg/Kg		101	70 - 130	4	30
1,1,2-Trichloroethane	0.0500	0.04851		mg/Kg		97	56 - 146	2	30
m-Xylene & p-Xylene	0.0500	0.05058		mg/Kg		101	70 - 130	2	30
Trichloroethene	0.0500	0.04680		mg/Kg		94	70 - 130	1	30
Trichlorofluoromethane	0.0500	0.06041		mg/Kg		121	70 - 130	13	30
1,2,3-Trichloropropane	0.0500	0.04597		mg/Kg		92	64 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05298		mg/Kg		106	70 - 130	1	40

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

Lab Sample ID: LCSD 680-826213/6
Matrix: Solid
Analysis Batch: 826213

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
1,2,4-Trimethylbenzene			0.0500	0.05276		mg/Kg		106	70 - 130	5	30
Hexane			0.0500	0.05095		mg/Kg		102	70 - 130	1	30
1,3,5-Trimethylbenzene			0.0500	0.05161		mg/Kg		103	70 - 130	4	30
n-Heptane			0.0500	0.05099		mg/Kg		102	70 - 130	4	30
Vinyl acetate			0.100	0.1051		mg/Kg		105	53 - 150	3	30
Vinyl chloride			0.0500	0.06333		mg/Kg		127	70 - 130	12	30
Xylenes, Total			0.100	0.1011		mg/Kg		101	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 130*
Dibromofluoromethane (Surr)	*100*		*65 - 130*
4-Bromofluorobenzene (Surr)	*93*		*65 - 130*

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

Lab Sample ID: MB 680-825490/1-A
Matrix: Water
Analysis Batch: 825694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.40		10.0	4.40	ug/L		03/02/24 13:08	03/04/24 14:52	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
Acetophenone	<2.20		10.0	2.20	ug/L		03/02/24 13:08	03/04/24 14:52	1
Anthracene	<3.60		10.0	3.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
Atrazine	<2.20		10.0	2.20	ug/L		03/02/24 13:08	03/04/24 14:52	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		03/02/24 13:08	03/04/24 14:52	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		03/02/24 13:08	03/04/24 14:52	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		03/02/24 13:08	03/04/24 14:52	1
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
bis (2-chloroisopropyl) ether	<3.10		10.0	3.10	ug/L		03/02/24 13:08	03/04/24 14:52	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		03/02/24 13:08	03/04/24 14:52	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Caprolactam	<2.80		10.0	2.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Carbazole	<1.80		10.0	1.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		03/02/24 13:08	03/04/24 14:52	1
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		03/02/24 13:08	03/04/24 14:52	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
Chrysene	<3.80		10.0	3.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		03/02/24 13:08	03/04/24 14:52	1

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

Lab Sample ID: MB 680-825490/1-A
Matrix: Water
Analysis Batch: 825694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		03/02/24 13:08	03/04/24 14:52	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		03/02/24 13:08	03/04/24 14:52	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
Fluoranthene	<1.60		10.0	1.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
Fluorene	<3.40		10.0	3.40	ug/L		03/02/24 13:08	03/04/24 14:52	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		03/02/24 13:08	03/04/24 14:52	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
Isophorone	<2.00		10.0	2.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		03/02/24 13:08	03/04/24 14:52	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		03/02/24 13:08	03/04/24 14:52	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		03/02/24 13:08	03/04/24 14:52	1
Naphthalene	<3.50		10.0	3.50	ug/L		03/02/24 13:08	03/04/24 14:52	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		03/02/24 13:08	03/04/24 14:52	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
4-Nitroaniline	<3.00		50.0	3.00	ug/L		03/02/24 13:08	03/04/24 14:52	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		03/02/24 13:08	03/04/24 14:52	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		03/02/24 13:08	03/04/24 14:52	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		03/02/24 13:08	03/04/24 14:52	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		03/02/24 13:08	03/04/24 14:52	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		03/02/24 13:08	03/04/24 14:52	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		03/02/24 13:08	03/04/24 14:52	1
Phenanthrene	<4.30		10.0	4.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
Phenol	<1.50		10.0	1.50	ug/L		03/02/24 13:08	03/04/24 14:52	1
Pyrene	<3.70		10.0	3.70	ug/L		03/02/24 13:08	03/04/24 14:52	1
Pyridine	<7.40		50.0	7.40	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		03/02/24 13:08	03/04/24 14:52	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		03/02/24 13:08	03/04/24 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*25 - 130*	*03/02/24 13:08*	*03/04/24 14:52*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 130*	*03/02/24 13:08*	*03/04/24 14:52*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/02/24 13:08*	*03/04/24 14:52*	*1*
Phenol-d5 (Surr)	*27*		*10 - 130*	*03/02/24 13:08*	*03/04/24 14:52*	*1*
Terphenyl-d14 (Surr)	*87*		*35 - 131*	*03/02/24 13:08*	*03/04/24 14:52*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*30 - 130*	*03/02/24 13:08*	*03/04/24 14:52*	*1*

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

Lab Sample ID: LCS 680-825490/2-A
Matrix: Water
Analysis Batch: 825694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	200	147.9		ug/L		74	48 - 130
Acenaphthylene	200	139.6		ug/L		70	48 - 130
Acetophenone	200	123.4		ug/L		62	44 - 130
Anthracene	200	152.1		ug/L		76	49 - 130
Atrazine	200	145.7		ug/L		73	39 - 130
Benzaldehyde	200	115.6		ug/L		58	14 - 130
Benzo[a]anthracene	200	160.0		ug/L		80	44 - 130
Benzo[a]pyrene	200	164.0		ug/L		82	44 - 130
Benzo[b]fluoranthene	200	157.8		ug/L		79	43 - 130
Benzo[g,h,i]perylene	200	165.2		ug/L		83	41 - 130
Benzo[k]fluoranthene	200	161.7		ug/L		81	40 - 130
1,1'-Biphenyl	200	137.0		ug/L		68	45 - 130
Bis(2-chloroethoxy)methane	200	129.6		ug/L		65	47 - 130
Bis(2-chloroethyl)ether	200	111.4		ug/L		56	32 - 130
bis (2-chloroisopropyl) ether	200	103.6		ug/L		52	26 - 130
Bis(2-ethylhexyl) phthalate	200	165.2		ug/L		83	45 - 130
4-Bromophenyl phenyl ether	200	154.8		ug/L		77	47 - 130
Butyl benzyl phthalate	200	170.8		ug/L		85	50 - 130
Caprolactam	200	48.83	*-	ug/L		24	26 - 130
Carbazole	200	157.3		ug/L		79	54 - 130
4-Chloroaniline	200	118.4		ug/L		59	42 - 130
4-Chloro-3-methylphenol	200	143.6		ug/L		72	47 - 130
2-Chloronaphthalene	200	134.6		ug/L		67	44 - 130
2-Chlorophenol	200	111.0		ug/L		56	39 - 130
4-Chlorophenyl phenyl ether	200	147.6		ug/L		74	45 - 130
Chrysene	200	159.9		ug/L		80	47 - 130
Dibenz(a,h)anthracene	200	162.7		ug/L		81	41 - 130
Dibenzofuran	200	142.8		ug/L		71	50 - 130
3,3'-Dichlorobenzidine	200	161.9		ug/L		81	46 - 130
2,4-Dichlorophenol	200	132.2		ug/L		66	44 - 130
Diethyl phthalate	200	153.8		ug/L		77	53 - 130
2,4-Dimethylphenol	200	120.2		ug/L		60	37 - 130
Dimethyl phthalate	200	151.9		ug/L		76	53 - 130
Di-n-butyl phthalate	200	162.0		ug/L		81	51 - 130
4,6-Dinitro-2-methylphenol	400	335.9		ug/L		84	42 - 130
2,4-Dinitrophenol	400	309.9		ug/L		77	31 - 130
2,6-Dinitrotoluene	200	169.8		ug/L		85	52 - 130
2,4-Dinitrotoluene	200	177.0		ug/L		89	52 - 130
Di-n-octyl phthalate	200	175.4		ug/L		88	42 - 130
Fluoranthene	200	155.9		ug/L		78	47 - 130
Fluorene	200	144.4		ug/L		72	50 - 130
Hexachlorobenzene	200	151.4		ug/L		76	43 - 130
Hexachlorobutadiene	200	111.8		ug/L		56	27 - 130
Hexachlorocyclopentadiene	200	101.5		ug/L		51	11 - 130
Hexachloroethane	200	102.6		ug/L		51	29 - 130
Indeno[1,2,3-cd]pyrene	200	165.3		ug/L		83	31 - 130
Isophorone	200	133.3		ug/L		67	47 - 130
2-Methylnaphthalene	200	126.4		ug/L		63	40 - 130

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

Lab Sample ID: LCS 680-825490/2-A
Matrix: Water
Analysis Batch: 825694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylphenol	200	101.3		ug/L		51	40 - 130
3 & 4 Methylphenol	200	97.16		ug/L		49	42 - 130
Naphthalene	200	115.6		ug/L		58	39 - 130
2-Nitroaniline	200	163.6		ug/L		82	51 - 130
3-Nitroaniline	200	158.6		ug/L		79	53 - 130
4-Nitroaniline	200	168.2		ug/L		84	49 - 130
Nitrobenzene	200	121.0		ug/L		60	43 - 130
2-Nitrophenol	200	134.4		ug/L		67	43 - 130
4-Nitrophenol	400	153.8		ug/L		38	13 - 130
N-Nitrosodi-n-propylamine	200	119.6		ug/L		60	42 - 130
N-Nitrosodiphenylamine	200	154.9		ug/L		77	50 - 130
Pentachlorophenol	400	319.0		ug/L		80	33 - 130
Phenanthrene	200	151.2		ug/L		76	51 - 130
Phenol	200	51.34		ug/L		26	14 - 130
Pyrene	200	163.4		ug/L		82	52 - 130
Pyridine	400	41.16	J	ug/L		10	10 - 130
2,4,5-Trichlorophenol	200	154.6		ug/L		77	48 - 130
2,4,6-Trichlorophenol	200	155.3		ug/L		78	47 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*
Phenol-d5 (Surr)	*23*		*10 - 130*
Terphenyl-d14 (Surr)	*80*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*80*		*30 - 130*

Lab Sample ID: MB 680-825943/20-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0401		0.323	0.0401	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Acenaphthylene	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Acetophenone	<0.0274		0.323	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Anthracene	<0.0244		0.323	0.0244	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Atrazine	<0.0225		0.323	0.0225	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzaldehyde	<0.0567		0.323	0.0567	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[a]anthracene	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[a]pyrene	<0.0508		0.323	0.0508	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[b]fluoranthene	<0.0372		0.323	0.0372	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[g,h,i]perylene	<0.0215		0.323	0.0215	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Benzo[k]fluoranthene	<0.0636		0.323	0.0636	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Bis(2-chloroethoxy)methane	<0.0381		0.323	0.0381	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Bis(2-chloroethyl)ether	<0.0440		0.323	0.0440	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
bis (2-chloroisopropyl) ether	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Bis(2-ethylhexyl) phthalate	<0.0284		0.323	0.0284	mg/Kg		03/05/24 07:30	03/06/24 13:25	1

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

Lab Sample ID: MB 680-825943/20-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Butyl benzyl phthalate	<0.0254		0.323	0.0254	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Caprolactam	<0.0645		0.323	0.0645	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Carbazole	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Chloroaniline	<0.0508		0.645	0.0508	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Chloro-3-methylphenol	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Chloronaphthalene	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Chlorophenol	<0.0391		0.323	0.0391	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Chlorophenyl phenyl ether	<0.0430		0.323	0.0430	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Chrysene	<0.0205		0.323	0.0205	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Dibenz(a,h)anthracene	<0.0381		0.323	0.0381	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Dibenzofuran	<0.0323		0.323	0.0323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
3,3'-Dichlorobenzidine	<0.0274		0.645	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dichlorophenol	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Diethyl phthalate	<0.0362		0.323	0.0362	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dimethylphenol	<0.0430		0.323	0.0430	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Dimethyl phthalate	<0.0332		0.323	0.0332	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Di-n-butyl phthalate	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dinitrophenol	<0.812		1.66	0.812	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,6-Dinitrotoluene	<0.0411		0.323	0.0411	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4-Dinitrotoluene	<0.0479		0.323	0.0479	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Di-n-octyl phthalate	<0.0284		0.323	0.0284	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Fluoranthene	<0.0313		0.323	0.0313	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Fluorene	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachlorobenzene	<0.0381		0.323	0.0381	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachlorobutadiene	<0.0352		0.323	0.0352	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachlorocyclopentadiene	<0.0401		0.323	0.0401	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Hexachloroethane	<0.0274		0.323	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Indeno[1,2,3-cd]pyrene	<0.0274		0.323	0.0274	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Isophorone	<0.0323		0.323	0.0323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Methylnaphthalene	<0.0372		0.323	0.0372	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Methylphenol	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
3 & 4 Methylphenol	<0.0420		0.323	0.0420	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Naphthalene	<0.0293		0.323	0.0293	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Nitroaniline	<0.0440		1.66	0.0440	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
3-Nitroaniline	<0.0450		1.66	0.0450	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Nitroaniline	<0.0479		1.66	0.0479	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Nitrobenzene	<0.0254		0.323	0.0254	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2-Nitrophenol	<0.0401		0.323	0.0401	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
4-Nitrophenol	<0.323		1.66	0.323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
N-Nitrosodi-n-propylamine	<0.0313		0.323	0.0313	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
N-Nitrosodiphenylamine	<0.0323		0.323	0.0323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Pentachlorophenol	<0.323		1.66	0.323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Phenanthrene	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Phenol	<0.0332		0.323	0.0332	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Pyrene	<0.0264		0.323	0.0264	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
Pyridine	<0.323		0.645	0.323	mg/Kg		03/05/24 07:30	03/06/24 13:25	1
2,4,5-Trichlorophenol	<0.0342		0.323	0.0342	mg/Kg		03/05/24 07:30	03/06/24 13:25	1

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

Lab Sample ID: MB 680-825943/20-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0284		0.323	0.0284	mg/Kg		03/05/24 07:30	03/06/24 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
Terphenyl-d14 (Surr)	*80*		*31 - 133*	*03/05/24 07:30*	*03/06/24 13:25*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*21 - 132*	*03/05/24 07:30*	*03/06/24 13:25*	*1*

Lab Sample ID: LCS 680-825943/21-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.60	4.342		mg/Kg		66	33 - 130
Acenaphthylene	6.60	4.566		mg/Kg		69	34 - 130
Acetophenone	6.60	4.134		mg/Kg		63	28 - 130
Anthracene	6.60	5.059		mg/Kg		77	39 - 130
Atrazine	6.60	4.906		mg/Kg		74	27 - 130
Benzaldehyde	6.60	3.581		mg/Kg		54	10 - 130
Benzo[a]anthracene	6.60	5.192		mg/Kg		79	40 - 130
Benzo[a]pyrene	6.60	5.147		mg/Kg		78	37 - 131
Benzo[b]fluoranthene	6.60	5.198		mg/Kg		79	35 - 130
Benzo[g,h,i]perylene	6.60	5.225		mg/Kg		79	39 - 130
Benzo[k]fluoranthene	6.60	5.038		mg/Kg		76	35 - 130
1,1'-Biphenyl	6.60	4.444		mg/Kg		67	32 - 130
Bis(2-chloroethoxy)methane	6.60	4.210		mg/Kg		64	29 - 130
Bis(2-chloroethyl)ether	6.60	3.998		mg/Kg		61	18 - 130
bis (2-chloroisopropyl) ether	6.60	4.270		mg/Kg		65	12 - 130
Bis(2-ethylhexyl) phthalate	6.60	5.740		mg/Kg		87	39 - 130
4-Bromophenyl phenyl ether	6.60	4.540		mg/Kg		69	32 - 130
Butyl benzyl phthalate	6.60	5.690		mg/Kg		86	38 - 130
Caprolactam	6.60	5.267		mg/Kg		80	27 - 148
Carbazole	6.60	5.138		mg/Kg		78	43 - 130
4-Chloroaniline	6.60	4.243		mg/Kg		64	10 - 130
4-Chloro-3-methylphenol	6.60	4.762		mg/Kg		72	31 - 130
2-Chloronaphthalene	6.60	4.273		mg/Kg		65	30 - 130
2-Chlorophenol	6.60	4.234		mg/Kg		64	28 - 130
4-Chlorophenyl phenyl ether	6.60	4.526		mg/Kg		69	32 - 130
Chrysene	6.60	5.016		mg/Kg		76	40 - 130
Dibenz(a,h)anthracene	6.60	5.283		mg/Kg		80	37 - 130
Dibenzofuran	6.60	4.494		mg/Kg		68	34 - 130
3,3'-Dichlorobenzidine	6.60	4.151		mg/Kg		63	10 - 130
2,4-Dichlorophenol	6.60	4.567		mg/Kg		69	30 - 130
Diethyl phthalate	6.60	5.155		mg/Kg		78	36 - 130
2,4-Dimethylphenol	6.60	4.251		mg/Kg		64	34 - 130
Dimethyl phthalate	6.60	4.802		mg/Kg		73	36 - 130

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

Lab Sample ID: LCS 680-825943/21-A
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-butyl phthalate	6.60	5.561		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	13.2	9.852		mg/Kg		75	22 - 130
2,4-Dinitrophenol	13.2	7.705		mg/Kg		58	10 - 130
2,6-Dinitrotoluene	6.60	4.881		mg/Kg		74	33 - 130
2,4-Dinitrotoluene	6.60	4.876		mg/Kg		74	34 - 130
Di-n-octyl phthalate	6.60	5.656		mg/Kg		86	38 - 131
Fluoranthene	6.60	5.176		mg/Kg		78	38 - 130
Fluorene	6.60	4.706		mg/Kg		71	34 - 130
Hexachlorobenzene	6.60	4.606		mg/Kg		70	28 - 130
Hexachlorobutadiene	6.60	3.474		mg/Kg		53	22 - 130
Hexachlorocyclopentadiene	6.60	2.679		mg/Kg		41	11 - 130
Hexachloroethane	6.60	3.536		mg/Kg		54	21 - 130
Indeno[1,2,3-cd]pyrene	6.60	5.121		mg/Kg		78	40 - 130
Isophorone	6.60	4.534		mg/Kg		69	26 - 130
2-Methylnaphthalene	6.60	4.271		mg/Kg		65	28 - 130
2-Methylphenol	6.60	4.607		mg/Kg		70	30 - 130
3 & 4 Methylphenol	6.60	4.703		mg/Kg		71	31 - 130
Naphthalene	6.60	4.023		mg/Kg		61	25 - 130
2-Nitroaniline	6.60	5.266		mg/Kg		80	26 - 130
3-Nitroaniline	6.60	4.662		mg/Kg		71	10 - 130
4-Nitroaniline	6.60	4.974		mg/Kg		75	25 - 130
Nitrobenzene	6.60	4.101		mg/Kg		62	25 - 130
2-Nitrophenol	6.60	4.052		mg/Kg		61	24 - 130
4-Nitrophenol	13.2	11.20		mg/Kg		85	25 - 130
N-Nitrosodi-n-propylamine	6.60	4.572		mg/Kg		69	24 - 130
N-Nitrosodiphenylamine	6.60	4.874		mg/Kg		74	37 - 130
Pentachlorophenol	13.2	8.480		mg/Kg		64	16 - 135
Phenanthrene	6.60	5.063		mg/Kg		77	38 - 130
Phenol	6.60	4.533		mg/Kg		69	27 - 130
Pyrene	6.60	5.461		mg/Kg		83	40 - 130
Pyridine	13.2	3.816		mg/Kg		29	10 - 130
2,4,5-Trichlorophenol	6.60	4.699		mg/Kg		71	33 - 130
2,4,6-Trichlorophenol	6.60	4.687		mg/Kg		71	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*61*		*18 - 130*
Nitrobenzene-d5 (Surr)	*61*		*19 - 130*
Phenol-d5 (Surr)	*66*		*21 - 130*
Terphenyl-d14 (Surr)	*74*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*70*		*21 - 132*

Lab Sample ID: 680-247309-7 MS
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<0.0520		8.80	6.636		mg/Kg	☼	75	33 - 130

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

Lab Sample ID: 680-247309-7 MS
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	<0.0456		8.80	6.744		mg/Kg	☼	77	34 - 130
Acetophenone	<0.0355		8.80	6.198		mg/Kg	☼	70	28 - 130
Anthracene	<0.0317		8.80	7.296		mg/Kg	☼	83	39 - 130
Atrazine	<0.0292		8.80	6.875		mg/Kg	☼	78	27 - 130
Benzaldehyde	<0.0735		8.80	6.789		mg/Kg	☼	77	10 - 130
Benzo[a]anthracene	<0.0342		8.80	7.503		mg/Kg	☼	85	40 - 130
Benzo[a]pyrene	<0.0659		8.80	7.581		mg/Kg	☼	86	37 - 131
Benzo[b]fluoranthene	<0.0482		8.80	7.591		mg/Kg	☼	86	35 - 130
Benzo[g,h,i]perylene	<0.0279		8.80	7.528		mg/Kg	☼	86	39 - 130
Benzo[k]fluoranthene	<0.0824		8.80	7.105		mg/Kg	☼	81	35 - 130
1,1'-Biphenyl	<2.16		8.80	6.664		mg/Kg	☼	76	32 - 130
Bis(2-chloroethoxy)methane	<0.0494		8.80	6.319		mg/Kg	☼	72	29 - 130
Bis(2-chloroethyl)ether	<0.0570		8.80	6.352		mg/Kg	☼	72	18 - 130
bis (2-chloroisopropyl) ether	<0.0380		8.80	6.727		mg/Kg	☼	76	12 - 130
Bis(2-ethylhexyl) phthalate	<0.0368		8.80	8.559		mg/Kg	☼	97	39 - 130
4-Bromophenyl phenyl ether	<0.0456		8.80	6.763		mg/Kg	☼	77	32 - 130
Butyl benzyl phthalate	<0.0330		8.80	8.512		mg/Kg	☼	97	38 - 130
Caprolactam	<0.0837		8.80	6.594		mg/Kg	☼	75	27 - 148
Carbazole	<0.0380		8.80	7.156		mg/Kg	☼	81	43 - 130
4-Chloroaniline	<0.0659		8.80	6.286		mg/Kg	☼	71	10 - 130
4-Chloro-3-methylphenol	<0.0444		8.80	7.065		mg/Kg	☼	80	31 - 130
2-Chloronaphthalene	<0.0444		8.80	6.376		mg/Kg	☼	72	30 - 130
2-Chlorophenol	<0.0507		8.80	6.514		mg/Kg	☼	74	28 - 130
4-Chlorophenyl phenyl ether	<0.0558		8.80	6.628		mg/Kg	☼	75	32 - 130
Chrysene	<0.0266		8.80	7.514		mg/Kg	☼	85	40 - 130
Dibenz(a,h)anthracene	<0.0494		8.80	7.662		mg/Kg	☼	87	37 - 130
Dibenzofuran	<0.0418		8.80	6.608		mg/Kg	☼	75	34 - 130
3,3'-Dichlorobenzidine	<0.0355		8.80	6.647		mg/Kg	☼	76	10 - 130
2,4-Dichlorophenol	<0.0444		8.80	6.858		mg/Kg	☼	78	30 - 130
Diethyl phthalate	<0.0469		8.80	7.418		mg/Kg	☼	84	36 - 130
2,4-Dimethylphenol	<0.0558		8.80	6.169		mg/Kg	☼	70	34 - 130
Dimethyl phthalate	<0.0431		8.80	7.030		mg/Kg	☼	80	36 - 130
Di-n-butyl phthalate	<0.0380		8.80	7.906		mg/Kg	☼	90	39 - 130
4,6-Dinitro-2-methylphenol	<0.216		17.6	11.51		mg/Kg	☼	65	22 - 130
2,4-Dinitrophenol	<1.05		17.6	5.834		mg/Kg	☼	33	10 - 130
2,4-Dinitrotoluene	<0.0621		8.80	6.904		mg/Kg	☼	78	34 - 130
2,6-Dinitrotoluene	<0.0532		8.80	7.015		mg/Kg	☼	80	33 - 130
Di-n-octyl phthalate	<0.0368		8.80	8.458		mg/Kg	☼	96	38 - 131
Fluoranthene	<0.0406		8.80	7.330		mg/Kg	☼	83	38 - 130
Fluorene	<0.0456		8.80	6.860		mg/Kg	☼	78	34 - 130
Hexachlorobenzene	<0.0494		8.80	6.745		mg/Kg	☼	77	28 - 130
Hexachlorobutadiene	<0.0456		8.80	5.586		mg/Kg	☼	63	22 - 130
Hexachlorocyclopentadiene	<0.0520		8.80	3.969		mg/Kg	☼	45	11 - 130
Hexachloroethane	<0.0355		8.80	5.750		mg/Kg	☼	65	21 - 130
Indeno[1,2,3-cd]pyrene	<0.0355		8.80	7.688		mg/Kg	☼	87	40 - 130
Isophorone	<0.0418		8.80	6.798		mg/Kg	☼	77	26 - 130
2-Methylnaphthalene	<0.0482		8.80	6.457		mg/Kg	☼	73	28 - 130
2-Methylphenol	<0.0342		8.80	6.885		mg/Kg	☼	78	30 - 130
3 & 4 Methylphenol	<0.0545		8.80	7.035		mg/Kg	☼	80	31 - 130

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

Lab Sample ID: 680-247309-7 MS
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	<0.0380		8.80	6.196		mg/Kg	☼	70	25 - 130
2-Nitroaniline	<0.0570		8.80	7.730		mg/Kg	☼	88	26 - 130
3-Nitroaniline	<0.0583		8.80	6.736		mg/Kg	☼	77	10 - 130
4-Nitroaniline	<0.0621		8.80	6.765		mg/Kg	☼	77	25 - 130
Nitrobenzene	<0.0330		8.80	6.210		mg/Kg	☼	71	25 - 130
2-Nitrophenol	<0.0520		8.80	6.062		mg/Kg	☼	69	24 - 130
4-Nitrophenol	<0.418		17.6	16.07		mg/Kg	☼	91	25 - 130
N-Nitrosodi-n-propylamine	<0.0406		8.80	6.954		mg/Kg	☼	79	24 - 130
N-Nitrosodiphenylamine	<0.0418		8.80	7.153		mg/Kg	☼	81	37 - 130
Pentachlorophenol	<0.418		17.6	12.16		mg/Kg	☼	69	16 - 135
Phenanthrene	<0.0342		8.80	7.289		mg/Kg	☼	83	38 - 130
Phenol	<0.0431		8.80	6.811		mg/Kg	☼	77	27 - 130
Pyrene	<0.0342		8.80	8.249		mg/Kg	☼	94	40 - 130
Pyridine	<0.418		17.6	4.923		mg/Kg	☼	28	10 - 130
2,4,5-Trichlorophenol	<0.0444		8.80	7.044		mg/Kg	☼	80	33 - 130
2,4,6-Trichlorophenol	<0.0368		8.80	6.926		mg/Kg	☼	79	31 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*
2-Fluorophenol (Surr)	*74*		*18 - 130*
Nitrobenzene-d5 (Surr)	*69*		*19 - 130*
Phenol-d5 (Surr)	*76*		*21 - 130*
Terphenyl-d14 (Surr)	*82*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*

Lab Sample ID: 680-247309-7 MSD
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0520		8.75	6.291		mg/Kg	☼	72	33 - 130	5	50
Acenaphthylene	<0.0456		8.75	6.357		mg/Kg	☼	73	34 - 130	6	50
Acetophenone	<0.0355		8.75	6.045		mg/Kg	☼	69	28 - 130	2	50
Anthracene	<0.0317		8.75	6.730		mg/Kg	☼	77	39 - 130	8	50
Atrazine	<0.0292		8.75	6.489		mg/Kg	☼	74	27 - 130	6	50
Benzaldehyde	<0.0735		8.75	6.586		mg/Kg	☼	75	10 - 130	3	50
Benzo[a]anthracene	<0.0342		8.75	6.859		mg/Kg	☼	78	40 - 130	9	50
Benzo[a]pyrene	<0.0659		8.75	6.745		mg/Kg	☼	77	37 - 131	12	50
Benzo[b]fluoranthene	<0.0482		8.75	7.068		mg/Kg	☼	81	35 - 130	7	50
Benzo[g,h,i]perylene	<0.0279		8.75	6.936		mg/Kg	☼	79	39 - 130	8	50
Benzo[k]fluoranthene	<0.0824		8.75	6.320		mg/Kg	☼	72	35 - 130	12	50
1,1'-Biphenyl	<2.16		8.75	6.316		mg/Kg	☼	72	32 - 130	5	50
Bis(2-chloroethoxy)methane	<0.0494		8.75	6.168		mg/Kg	☼	70	29 - 130	2	50
Bis(2-chloroethyl)ether	<0.0570		8.75	6.109		mg/Kg	☼	70	18 - 130	4	50
bis (2-chloroisopropyl) ether	<0.0380		8.75	6.450		mg/Kg	☼	74	12 - 130	4	50
Bis(2-ethylhexyl) phthalate	<0.0368		8.75	7.500		mg/Kg	☼	86	39 - 130	13	50
4-Bromophenyl phenyl ether	<0.0456		8.75	6.355		mg/Kg	☼	73	32 - 130	6	50
Butyl benzyl phthalate	<0.0330		8.75	7.467		mg/Kg	☼	85	38 - 130	13	50

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

Lab Sample ID: 680-247309-7 MSD
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Caprolactam	<0.0837		8.75	6.499		mg/Kg	☼	74	27 - 148	1	50
Carbazole	<0.0380		8.75	6.560		mg/Kg	☼	75	43 - 130	9	50
4-Chloroaniline	<0.0659		8.75	5.957		mg/Kg	☼	68	10 - 130	5	50
4-Chloro-3-methylphenol	<0.0444		8.75	6.864		mg/Kg	☼	78	31 - 130	3	50
2-Chloronaphthalene	<0.0444		8.75	6.215		mg/Kg	☼	71	30 - 130	3	50
2-Chlorophenol	<0.0507		8.75	6.250		mg/Kg	☼	71	28 - 130	4	50
4-Chlorophenyl phenyl ether	<0.0558		8.75	6.325		mg/Kg	☼	72	32 - 130	5	50
Chrysene	<0.0266		8.75	6.800		mg/Kg	☼	78	40 - 130	10	50
Dibenz(a,h)anthracene	<0.0494		8.75	7.039		mg/Kg	☼	80	37 - 130	8	50
Dibenzofuran	<0.0418		8.75	6.310		mg/Kg	☼	72	34 - 130	5	50
3,3'-Dichlorobenzidine	<0.0355		8.75	5.927		mg/Kg	☼	68	10 - 130	11	50
2,4-Dichlorophenol	<0.0444		8.75	6.732		mg/Kg	☼	77	30 - 130	2	50
Diethyl phthalate	<0.0469		8.75	6.750		mg/Kg	☼	77	36 - 130	9	50
2,4-Dimethylphenol	<0.0558		8.75	5.976		mg/Kg	☼	68	34 - 130	3	50
Dimethyl phthalate	<0.0431		8.75	6.544		mg/Kg	☼	75	36 - 130	7	50
Di-n-butyl phthalate	<0.0380		8.75	7.202		mg/Kg	☼	82	39 - 130	9	50
4,6-Dinitro-2-methylphenol	<0.216		17.5	11.83		mg/Kg	☼	68	22 - 130	3	50
2,4-Dinitrophenol	<1.05		17.5	6.542		mg/Kg	☼	37	10 - 130	11	50
2,4-Dinitrotoluene	<0.0621		8.75	6.495		mg/Kg	☼	74	34 - 130	6	50
2,6-Dinitrotoluene	<0.0532		8.75	6.658		mg/Kg	☼	76	33 - 130	5	50
Di-n-octyl phthalate	<0.0368		8.75	7.434		mg/Kg	☼	85	38 - 131	13	50
Fluoranthene	<0.0406		8.75	6.697		mg/Kg	☼	77	38 - 130	9	50
Fluorene	<0.0456		8.75	6.364		mg/Kg	☼	73	34 - 130	8	50
Hexachlorobenzene	<0.0494		8.75	6.392		mg/Kg	☼	73	28 - 130	5	50
Hexachlorobutadiene	<0.0456		8.75	5.562		mg/Kg	☼	64	22 - 130	0	50
Hexachlorocyclopentadiene	<0.0520		8.75	3.819		mg/Kg	☼	44	11 - 130	4	50
Hexachloroethane	<0.0355		8.75	5.572		mg/Kg	☼	64	21 - 130	3	50
Indeno[1,2,3-cd]pyrene	<0.0355		8.75	7.007		mg/Kg	☼	80	40 - 130	9	50
Isophorone	<0.0418		8.75	6.461		mg/Kg	☼	74	26 - 130	5	50
2-Methylnaphthalene	<0.0482		8.75	6.236		mg/Kg	☼	71	28 - 130	3	50
2-Methylphenol	<0.0342		8.75	6.510		mg/Kg	☼	74	30 - 130	6	50
3 & 4 Methylphenol	<0.0545		8.75	6.640		mg/Kg	☼	76	31 - 130	6	50
Naphthalene	<0.0380		8.75	6.070		mg/Kg	☼	69	25 - 130	2	50
2-Nitroaniline	<0.0570		8.75	7.123		mg/Kg	☼	81	26 - 130	8	50
3-Nitroaniline	<0.0583		8.75	6.153		mg/Kg	☼	70	10 - 130	9	50
4-Nitroaniline	<0.0621		8.75	6.065		mg/Kg	☼	69	25 - 130	11	50
Nitrobenzene	<0.0330		8.75	6.045		mg/Kg	☼	69	25 - 130	3	50
2-Nitrophenol	<0.0520		8.75	6.147		mg/Kg	☼	70	24 - 130	1	50
4-Nitrophenol	<0.418		17.5	14.35		mg/Kg	☼	82	25 - 130	11	50
N-Nitrosodi-n-propylamine	<0.0406		8.75	6.531		mg/Kg	☼	75	24 - 130	6	50
N-Nitrosodiphenylamine	<0.0418		8.75	6.690		mg/Kg	☼	76	37 - 130	7	50
Pentachlorophenol	<0.418		17.5	11.42		mg/Kg	☼	65	16 - 135	6	50
Phenanthrene	<0.0342		8.75	6.751		mg/Kg	☼	77	38 - 130	8	50
Phenol	<0.0431		8.75	6.561		mg/Kg	☼	75	27 - 130	4	50
Pyrene	<0.0342		8.75	7.318		mg/Kg	☼	84	40 - 130	12	50
Pyridine	<0.418		17.5	4.785		mg/Kg	☼	27	10 - 130	3	50
2,4,5-Trichlorophenol	<0.0444		8.75	6.594		mg/Kg	☼	75	33 - 130	7	50
2,4,6-Trichlorophenol	<0.0368		8.75	6.632		mg/Kg	☼	76	31 - 130	4	50

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

Lab Sample ID: 680-247309-7 MSD
Matrix: Solid
Analysis Batch: 826072

Client Sample ID: WOTA-SS-09a (4)
Prep Type: Total/NA
Prep Batch: 825943

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	67		25 - 130
2-Fluorophenol (Surr)	70		18 - 130
Nitrobenzene-d5 (Surr)	68		19 - 130
Phenol-d5 (Surr)	71		21 - 130
Terphenyl-d14 (Surr)	74		31 - 133
2,4,6-Tribromophenol (Surr)	70		21 - 132

GC/MS VOA

Prep Batch: 825330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	5035A	
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	5035A	
680-247309-8	WOTA-SS-09b (4)	Total/NA	Solid	5035A	
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	5035A	
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	5035A	
680-247309-7 MS	WOTA-SS-09a (4)	Total/NA	Solid	5035A	
680-247309-7 MSD	WOTA-SS-09a (4)	Total/NA	Solid	5035A	

Analysis Batch: 825533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-10	FB-20240228	Total/NA	Water	8260D	
680-247309-11	EB-20240228	Total/NA	Water	8260D	
680-247309-12	TB-02-20240228	Total/NA	Water	8260D	
MB 680-825533/11	Method Blank	Total/NA	Water	8260D	
LCS 680-825533/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-825533/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 825656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-11	EB-20240228	Total/NA	Water	8260D	
MB 680-825656/10	Method Blank	Total/NA	Water	8260D	
LCS 680-825656/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-825656/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 826047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	8260D	825330
680-247309-8	WOTA-SS-09b (4)	Total/NA	Solid	8260D	825330
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	8260D	825330
MB 680-826047/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-826047/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826047/6	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-247309-7 MS	WOTA-SS-09a (4)	Total/NA	Solid	8260D	825330
680-247309-7 MSD	WOTA-SS-09a (4)	Total/NA	Solid	8260D	825330

Analysis Batch: 826213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	8260D	825330
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	8260D	825330
MB 680-826213/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-826213/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-826213/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 825490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-11	EB-20240228	Total/NA	Water	3510C	
MB 680-825490/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-825490/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 825694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-11	EB-20240228	Total/NA	Water	8270E	825490
MB 680-825490/1-A	Method Blank	Total/NA	Water	8270E	825490
LCS 680-825490/2-A	Lab Control Sample	Total/NA	Water	8270E	825490

Prep Batch: 825943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	3546	
680-247309-8	WOTA-SS-09b (4)	Total/NA	Solid	3546	
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	3546	
MB 680-825943/20-A	Method Blank	Total/NA	Solid	3546	
LCS 680-825943/21-A	Lab Control Sample	Total/NA	Solid	3546	
680-247309-7 MS	WOTA-SS-09a (4)	Total/NA	Solid	3546	
680-247309-7 MSD	WOTA-SS-09a (4)	Total/NA	Solid	3546	

Analysis Batch: 826072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	8270E	825943
680-247309-8	WOTA-SS-09b (4)	Total/NA	Solid	8270E	825943
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	8270E	825943
MB 680-825943/20-A	Method Blank	Total/NA	Solid	8270E	825943
LCS 680-825943/21-A	Lab Control Sample	Total/NA	Solid	8270E	825943
680-247309-7 MS	WOTA-SS-09a (4)	Total/NA	Solid	8270E	825943
680-247309-7 MSD	WOTA-SS-09a (4)	Total/NA	Solid	8270E	825943

General Chemistry

Analysis Batch: 825328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247309-7	WOTA-SS-09a (4)	Total/NA	Solid	Moisture	
680-247309-8	WOTA-SS-09b (4)	Total/NA	Solid	Moisture	
680-247309-9	WOTA-SS-09 (8)	Total/NA	Solid	Moisture	
680-247309-7 MS	WOTA-SS-09a (4)	Total/NA	Solid	Moisture	
680-247309-7 MSD	WOTA-SS-09a (4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09a (4)
Date Collected: 02/28/24 16:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-09a (4)
Date Collected: 02/28/24 16:40
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-7
Matrix: Solid
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.757 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826213	03/07/24 12:50	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			6.268 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 20:10	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.68 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826072	03/06/24 16:50	LA	EET SAV
	Instrument ID: CMSN									

Client Sample ID: WOTA-SS-09b (4)
Date Collected: 02/28/24 16:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-09b (4)
Date Collected: 02/28/24 16:50
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-8
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.751 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 20:32	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.39 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826072	03/06/24 21:57	LA	EET SAV
	Instrument ID: CMSN									

Client Sample ID: WOTA-SS-09 (8)
Date Collected: 02/28/24 17:00
Date Received: 02/29/24 10:11

Lab Sample ID: 680-247309-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			825328	03/01/24 09:54	KG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Client Sample ID: WOTA-SS-09 (8)

Lab Sample ID: 680-247309-9
Date Collected: 02/28/24 17:00
Matrix: Solid
Date Received: 02/29/24 10:11
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.846 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		40	5 g	5 g	826213	03/07/24 17:50	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			6.838 g	5 mL	825330	03/01/24 09:35	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	826047	03/06/24 20:54	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.60 g	1 mL	825943	03/05/24 07:30	MEW	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826072	03/06/24 22:23	LA	EET SAV
	Instrument ID: CMSN									

Client Sample ID: FB-20240228

Lab Sample ID: 680-247309-10
Date Collected: 02/28/24 17:05
Matrix: Water
Date Received: 02/29/24 10:11

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	825533	03/03/24 15:18	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: EB-20240228

Lab Sample ID: 680-247309-11
Date Collected: 02/28/24 17:10
Matrix: Water
Date Received: 02/29/24 10:11

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	825533	03/03/24 15:40	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	825656	03/04/24 14:44	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Prep	3510C			531.2 mL	1 mL	825490	03/02/24 13:08	RR	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	825694	03/04/24 17:51	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: TB-02-20240228

Lab Sample ID: 680-247309-12
Date Collected: 02/28/24 00:00
Matrix: Water
Date Received: 02/29/24 10:11

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	825533	03/03/24 16:02	P1C	EET SAV
	Instrument ID: CMSAB									

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: 680-247309-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247309-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: ED	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.5
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 5 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	N	N	N	A		
WOTA-SS-05 (4)	2/28	1540	G	S					X	X					
WOTA-SS-05 (8)		1550													
WOTA-SS-06 (4)		1600													
WOTA-SS-06 (8)		1610													
WOTA-SS-07 (4)		1620													
WOTA-SS-07 (8)		1630													
WOTA-SS-08a (4)		1640													MS/MSD
WOTA-SS-08b (4)		1650													
WOTA-SS-08 (8)		1700													
FB_20240228		1705		W					X	[redacted]					
EB_20240228		1710		W					X	X					

680-247309 Chain of Custody

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

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

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
				2-29-2024 1011	M
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 0.3/0.3

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: ED	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154681-55529.10
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 10 of 12
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8015C_GRO - Gasoline Range Organics	8015C_DRO - DRO - Diesel Range Organics	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:			F	N	N	N	N	N	A		
TB-02_20240223	2/23							X						

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
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: 2-29-24 1011	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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:

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247309-1

Login Number: 247309
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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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/18/2024 12:27:08 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247618-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
3/18/2024 12:27:08 PM

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

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.
B	Compound was found in the blank and sample.
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, high biased.

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.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247618-1	WOTA-SS-04 (8)	Solid	03/05/24 09:20	03/06/24 10:17
680-247618-2	WOTA-SS-05 (8)	Solid	03/05/24 09:30	03/06/24 10:17
680-247618-3	WOTA-SS-06 (8)	Solid	03/05/24 09:35	03/06/24 10:17
680-247618-4	WOTA-SS-07 (8)	Solid	03/05/24 09:40	03/06/24 10:17
680-247618-5	WOTA-SS-08 (8)	Solid	03/05/24 09:45	03/06/24 10:17
680-247618-6	WOTA-SS-04 (4)	Solid	03/05/24 10:30	03/06/24 10:17
680-247618-7	WOTA-SS-05 (4)	Solid	03/05/24 10:40	03/06/24 10:17
680-247618-8	WOTA-SS-06 (4)	Solid	03/05/24 10:50	03/06/24 10:17
680-247618-9	WOTA-SS-07 (4)	Solid	03/05/24 11:00	03/06/24 10:17
680-247618-10	WOTA-SS-08 (4)	Solid	03/05/24 11:10	03/06/24 10:17
680-247618-11	Trip Blank	Water	03/05/24 00:00	03/06/24 10:17

Job ID: 680-247618-1 Eurofins Savannah

Job Narrative
680-247618-1

Receipt
The samples were received on 3/6/2024 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 680-827726 contained Acetone above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

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

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-04 (8)
Date Collected: 03/05/24 09:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-1
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0161**	**J**	0.0244	0.0117	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Benzene	<0.000653		0.00487	0.000653	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Bromobenzene	<0.00127		0.00487	0.00127	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Chlorobromomethane	<0.000789		0.00487	0.000789	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Dichlorobromomethane	<0.000896		0.00487	0.000896	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Bromoform	<0.00127		0.00487	0.00127	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Bromomethane	<0.00244		0.00487	0.00244	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
2-Butanone (MEK)	<0.00584		0.0244	0.00584	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
n-Butylbenzene	<0.000935		0.00487	0.000935	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
sec-Butylbenzene	<0.000925		0.00487	0.000925	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
tert-Butylbenzene	<0.00107		0.00487	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Carbon disulfide	**0.00169**	**J**	0.00487	0.000643	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Carbon tetrachloride	<0.00166		0.00487	0.00166	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Chlorobenzene	<0.000507		0.00487	0.000507	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Chloroethane	<0.00117		0.00487	0.00117	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Chloroform	<0.00487		0.00487	0.00487	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Chloromethane	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
2-Chlorotoluene	<0.000789		0.00487	0.000789	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
4-Chlorotoluene	<0.000955		0.00487	0.000955	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Chlorodibromomethane	<0.00117		0.00487	0.00117	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2-Dibromo-3-Chloropropane	<0.00321		0.00487	0.00321	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Ethylene Dibromide	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Dibromomethane	<0.000808		0.00487	0.000808	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2-Dichlorobenzene	<0.000692		0.00487	0.000692	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,3-Dichlorobenzene	<0.000925		0.00487	0.000925	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,4-Dichlorobenzene	<0.000838		0.00487	0.000838	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
trans-1,4-Dichloro-2-butene	<0.00244		0.00487	0.00244	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Dichlorodifluoromethane	<0.00127		0.00487	0.00127	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1-Dichloroethane	**0.000957**	**J**	0.00487	0.000808	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2-Dichloroethane	<0.000799		0.00487	0.000799	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
cis-1,2-Dichloroethene	**0.00526**		0.00487	0.000740	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
trans-1,2-Dichloroethene	<0.000935		0.00487	0.000935	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1-Dichloroethene	<0.000828		0.00487	0.000828	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2-Dichloropropane	<0.000740		0.00487	0.000740	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,3-Dichloropropane	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
2,2-Dichloropropane	<0.00107		0.00487	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1-Dichloropropene	<0.000808		0.00487	0.000808	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
cis-1,3-Dichloropropene	<0.00117		0.00487	0.00117	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
trans-1,3-Dichloropropene	<0.00107		0.00487	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Ethylbenzene	<0.000594		0.00487	0.000594	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Hexachlorobutadiene	<0.00244		0.00487	0.00244	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
2-Hexanone	<0.00487		0.0244	0.00487	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Iodomethane	<0.00331		0.00487	0.00331	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Isopropylbenzene	<0.000662		0.00487	0.000662	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
4-Isopropyltoluene	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Methylene Chloride	<0.00974		0.0146	0.00974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
4-Methyl-2-pentanone (MIBK)	<0.00487		0.0244	0.00487	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Methyl tert-butyl ether	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Naphthalene	<0.00292		0.00487	0.00292	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-04 (8)
Date Collected: 03/05/24 09:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-1
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.000877		0.00487	0.000877	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Styrene	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1,1,2-Tetrachloroethane	<0.00107		0.00487	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1,2,2-Tetrachloroethane	<0.000799		0.00487	0.000799	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Tetrachloroethene	<0.00292		0.00487	0.00292	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Toluene	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2,3-Trichlorobenzene	<0.00107		0.00487	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2,4-Trichlorobenzene	<0.000896		0.00487	0.000896	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1,1-Trichloroethane	<0.00107		0.00487	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1,2-Trichloroethane	<0.000760		0.00487	0.000760	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Trichloroethene	**0.0797**		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Trichlorofluoromethane	<0.000838		0.00487	0.000838	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2,3-Trichloropropane	<0.000779		0.00487	0.000779	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.0122**		0.00487	0.000818	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,2,4-Trimethylbenzene	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
1,3,5-Trimethylbenzene	<0.000808		0.00487	0.000808	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Vinyl acetate	<0.00185		0.0244	0.00185	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Vinyl chloride	<0.000779		0.00487	0.000779	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
o-Xylene	<0.000974		0.00487	0.000974	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
m-Xylene & p-Xylene	<0.00127		0.00487	0.00127	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Xylenes, Total	<0.00185		0.00974	0.00185	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Isopropyl ether	<0.000536		0.00487	0.000536	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Hexane	<0.00253		0.00487	0.00253	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
n-Heptane	<0.000857		0.00487	0.000857	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1
Ethyl acetate	<0.00487		0.0195	0.00487	mg/Kg	☼	03/16/24 09:14	03/16/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*	*03/16/24 09:14*	*03/16/24 17:22*	*1*
Dibromofluoromethane	*105*		*77 - 127*	*03/16/24 09:14*	*03/16/24 17:22*	*1*
Toluene-d8 (Surr)	*94*		*76 - 127*	*03/16/24 09:14*	*03/16/24 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*78 - 146*	*03/16/24 09:14*	*03/16/24 17:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0500		0.402	0.0500	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Acenaphthylene	<0.0439		0.402	0.0439	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Acetophenone	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Anthracene	<0.0305		0.402	0.0305	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Atrazine	<0.0281		0.402	0.0281	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Benzaldehyde	<0.0707		0.402	0.0707	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Benzo[a]anthracene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Benzo[a]pyrene	<0.0634		0.402	0.0634	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Benzo[b]fluoranthene	<0.0463		0.402	0.0463	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Benzo[g,h,i]perylene	<0.0268		0.402	0.0268	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Benzo[k]fluoranthene	<0.0793		0.402	0.0793	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
1,1'-Biphenyl	<2.07		2.07	2.07	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Bis(2-chloroethoxy)methane	<0.0476		0.402	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Bis(2-chloroethyl)ether	<0.0549		0.402	0.0549	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
bis (2-chloroisopropyl) ether	<0.0366		0.402	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-04 (8)
Date Collected: 03/05/24 09:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-1
Matrix: Solid
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.0354		0.402	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4-Bromophenyl phenyl ether	<0.0439		0.402	0.0439	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Butyl benzyl phthalate	<0.0317		0.402	0.0317	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Caprolactam	<0.0805		0.402	0.0805	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Carbazole	<0.0366		0.402	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4-Chloroaniline	<0.0634		0.805	0.0634	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4-Chloro-3-methylphenol	<0.0427		0.402	0.0427	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2-Chloronaphthalene	<0.0427		0.402	0.0427	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2-Chlorophenol	<0.0488		0.402	0.0488	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4-Chlorophenyl phenyl ether	<0.0537		0.402	0.0537	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Chrysene	<0.0256		0.402	0.0256	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Dibenz(a,h)anthracene	<0.0476		0.402	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Dibenzofuran	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
3,3'-Dichlorobenzidine	<0.0341		0.805	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2,4-Dichlorophenol	<0.0427		0.402	0.0427	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Diethyl phthalate	<0.0451		0.402	0.0451	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2,4-Dimethylphenol	<0.0537		0.402	0.0537	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Dimethyl phthalate	<0.0415		0.402	0.0415	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Di-n-butyl phthalate	<0.0366		0.402	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4,6-Dinitro-2-methylphenol	<0.207		2.07	0.207	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2,4-Dinitrophenol	<1.01		2.07	1.01	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2,4-Dinitrotoluene	<0.0598		0.402	0.0598	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2,6-Dinitrotoluene	<0.0512		0.402	0.0512	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Di-n-octyl phthalate	<0.0354		0.402	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Fluoranthene	<0.0390		0.402	0.0390	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Fluorene	<0.0439		0.402	0.0439	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Hexachlorobenzene	<0.0476		0.402	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Hexachlorobutadiene	<0.0439		0.402	0.0439	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Hexachlorocyclopentadiene	<0.0500		0.402	0.0500	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Hexachloroethane	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Indeno[1,2,3-cd]pyrene	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Isophorone	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2-Methylnaphthalene	<0.0463		0.402	0.0463	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2-Methylphenol	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
3 & 4 Methylphenol	<0.0524		0.402	0.0524	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Naphthalene	<0.0366		0.402	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2-Nitroaniline	<0.0549		2.07	0.0549	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
3-Nitroaniline	<0.0561		2.07	0.0561	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4-Nitroaniline	<0.0598		2.07	0.0598	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Nitrobenzene	<0.0317		0.402	0.0317	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2-Nitrophenol	<0.0500		0.402	0.0500	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
4-Nitrophenol	<0.402		2.07	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
N-Nitrosodi-n-propylamine	<0.0390		0.402	0.0390	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
N-Nitrosodiphenylamine	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Pentachlorophenol	<0.402		2.07	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Phenanthrene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Phenol	<0.0415		0.402	0.0415	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Pyrene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
Pyridine	<0.402		0.805	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1

Client Sample ID: WOTA-SS-04 (8)

Lab Sample ID: 680-247618-1

Date Collected: 03/05/24 09:20
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.0427		0.402	0.0427	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1
2,4,6-Trichlorophenol	<0.0354		0.402	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/11/24 10:45*	*03/11/24 22:55*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 130*	*03/11/24 10:45*	*03/11/24 22:55*	*1*
Nitrobenzene-d5 (Surr)	*61*		*19 - 130*	*03/11/24 10:45*	*03/11/24 22:55*	*1*
Phenol-d5 (Surr)	*59*		*21 - 130*	*03/11/24 10:45*	*03/11/24 22:55*	*1*
Terphenyl-d14 (Surr)	*69*		*31 - 133*	*03/11/24 10:45*	*03/11/24 22:55*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*	*03/11/24 10:45*	*03/11/24 22:55*	*1*

Client Sample ID: WOTA-SS-05 (8)

Lab Sample ID: 680-247618-2

Date Collected: 03/05/24 09:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0418		0.0252	0.0121	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Benzene	<0.000675		0.00503	0.000675	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Bromobenzene	<0.00131		0.00503	0.00131	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Chlorobromomethane	<0.000816		0.00503	0.000816	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Dichlorobromomethane	<0.000926		0.00503	0.000926	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Bromoform	<0.00131		0.00503	0.00131	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Bromomethane	<0.00252		0.00503	0.00252	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
2-Butanone (MEK)	<0.00604		0.0252	0.00604	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
n-Butylbenzene	<0.000967		0.00503	0.000967	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
sec-Butylbenzene	<0.000957		0.00503	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
tert-Butylbenzene	<0.00111		0.00503	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Carbon disulfide	<0.000665		0.00503	0.000665	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Carbon tetrachloride	<0.00171		0.00503	0.00171	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Chlorobenzene	<0.000524		0.00503	0.000524	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Chloroethane	<0.00121		0.00503	0.00121	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Chloroform	<0.00503		0.00503	0.00503	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Chloromethane	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
2-Chlorotoluene	<0.000816		0.00503	0.000816	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
4-Chlorotoluene	<0.000987		0.00503	0.000987	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Chlorodibromomethane	<0.00121		0.00503	0.00121	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2-Dibromo-3-Chloropropane	<0.00332		0.00503	0.00332	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Ethylene Dibromide	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Dibromomethane	<0.000836		0.00503	0.000836	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2-Dichlorobenzene	<0.000715		0.00503	0.000715	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,3-Dichlorobenzene	<0.000957		0.00503	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,4-Dichlorobenzene	<0.000866		0.00503	0.000866	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
trans-1,4-Dichloro-2-butene	<0.00252		0.00503	0.00252	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Dichlorodifluoromethane	<0.00131		0.00503	0.00131	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1-Dichloroethane	<0.000836		0.00503	0.000836	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2-Dichloroethane	<0.000826		0.00503	0.000826	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
cis-1,2-Dichloroethene	<0.000765		0.00503	0.000765	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
trans-1,2-Dichloroethene	<0.000967		0.00503	0.000967	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1-Dichloroethene	<0.000856		0.00503	0.000856	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-05 (8)
Date Collected: 03/05/24 09:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-2
Matrix: Solid
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.000765		0.00503	0.000765	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,3-Dichloropropane	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
2,2-Dichloropropane	<0.00111		0.00503	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1-Dichloropropene	<0.000836		0.00503	0.000836	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
cis-1,3-Dichloropropene	<0.00121		0.00503	0.00121	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
trans-1,3-Dichloropropene	<0.00111		0.00503	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Ethylbenzene	<0.000614		0.00503	0.000614	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Hexachlorobutadiene	<0.00252		0.00503	0.00252	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
2-Hexanone	<0.00503		0.0252	0.00503	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Iodomethane	<0.00342		0.00503	0.00342	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Isopropylbenzene	<0.000685		0.00503	0.000685	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
4-Isopropyltoluene	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Methylene Chloride	<0.0101		0.0151	0.0101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.00503		0.0252	0.00503	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Methyl tert-butyl ether	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Naphthalene	<0.00302		0.00503	0.00302	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
N-Propylbenzene	<0.000906		0.00503	0.000906	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Styrene	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1,1,2-Tetrachloroethane	<0.00111		0.00503	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1,2,2-Tetrachloroethane	<0.000826		0.00503	0.000826	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Tetrachloroethene	<0.00302		0.00503	0.00302	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Toluene	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2,3-Trichlorobenzene	<0.00111		0.00503	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2,4-Trichlorobenzene	<0.000926		0.00503	0.000926	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1,1-Trichloroethane	<0.00111		0.00503	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1,2-Trichloroethane	<0.000785		0.00503	0.000785	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Trichloroethene	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Trichlorofluoromethane	<0.000866		0.00503	0.000866	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2,3-Trichloropropane	<0.000806		0.00503	0.000806	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.000846		0.00503	0.000846	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,2,4-Trimethylbenzene	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
1,3,5-Trimethylbenzene	<0.000836		0.00503	0.000836	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Vinyl acetate	<0.00191		0.0252	0.00191	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Vinyl chloride	<0.000806		0.00503	0.000806	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
o-Xylene	<0.00101		0.00503	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
m-Xylene & p-Xylene	<0.00131		0.00503	0.00131	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Xylenes, Total	<0.00191		0.0101	0.00191	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Isopropyl ether	<0.000554		0.00503	0.000554	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Hexane	<0.00262		0.00503	0.00262	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
n-Heptane	<0.000886		0.00503	0.000886	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1
Ethyl acetate	<0.00503		0.0201	0.00503	mg/Kg	☼	03/16/24 09:14	03/16/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*	*03/16/24 09:14*	*03/16/24 17:47*	*1*
Dibromofluoromethane	*106*		*77 - 127*	*03/16/24 09:14*	*03/16/24 17:47*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*03/16/24 09:14*	*03/16/24 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*78 - 146*	*03/16/24 09:14*	*03/16/24 17:47*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-05 (8)
Date Collected: 03/05/24 09:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-2
Matrix: Solid
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0528		0.425	0.0528	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Acenaphthylene	<0.0464		0.425	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Acetophenone	<0.0361		0.425	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Anthracene	<0.0322		0.425	0.0322	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Atrazine	<0.0296		0.425	0.0296	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Benzaldehyde	<0.0747		0.425	0.0747	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Benzo[a]anthracene	<0.0348		0.425	0.0348	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Benzo[a]pyrene	<0.0670		0.425	0.0670	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Benzo[b]fluoranthene	<0.0490		0.425	0.0490	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Benzo[g,h,i]perylene	<0.0283		0.425	0.0283	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Benzo[k]fluoranthene	<0.0838		0.425	0.0838	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
1,1'-Biphenyl	<2.19		2.19	2.19	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Bis(2-chloroethoxy)methane	<0.0503		0.425	0.0503	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Bis(2-chloroethyl)ether	<0.0580		0.425	0.0580	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
bis (2-chloroisopropyl) ether	<0.0387		0.425	0.0387	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Bis(2-ethylhexyl) phthalate	<0.0374		0.425	0.0374	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4-Bromophenyl phenyl ether	<0.0464		0.425	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Butyl benzyl phthalate	<0.0335		0.425	0.0335	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Caprolactam	<0.0850		0.425	0.0850	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Carbazole	<0.0387		0.425	0.0387	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4-Chloroaniline	<0.0670		0.850	0.0670	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4-Chloro-3-methylphenol	<0.0451		0.425	0.0451	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2-Chloronaphthalene	<0.0451		0.425	0.0451	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2-Chlorophenol	<0.0515		0.425	0.0515	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4-Chlorophenyl phenyl ether	<0.0567		0.425	0.0567	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Chrysene	<0.0271		0.425	0.0271	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Dibenz(a,h)anthracene	<0.0503		0.425	0.0503	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Dibenzofuran	<0.0425		0.425	0.0425	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
3,3'-Dichlorobenzidine	<0.0361		0.850	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,4-Dichlorophenol	<0.0451		0.425	0.0451	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Diethyl phthalate	<0.0477		0.425	0.0477	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,4-Dimethylphenol	<0.0567		0.425	0.0567	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Dimethyl phthalate	<0.0438		0.425	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Di-n-butyl phthalate	<0.0387		0.425	0.0387	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4,6-Dinitro-2-methylphenol	<0.219		2.19	0.219	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,4-Dinitrophenol	<1.07		2.19	1.07	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,4-Dinitrotoluene	<0.0631		0.425	0.0631	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,6-Dinitrotoluene	<0.0541		0.425	0.0541	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Di-n-octyl phthalate	<0.0374		0.425	0.0374	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Fluoranthene	<0.0412		0.425	0.0412	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Fluorene	<0.0464		0.425	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Hexachlorobenzene	<0.0503		0.425	0.0503	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Hexachlorobutadiene	<0.0464		0.425	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Hexachlorocyclopentadiene	<0.0528		0.425	0.0528	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Hexachloroethane	<0.0361		0.425	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Indeno[1,2,3-cd]pyrene	<0.0361		0.425	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Isophorone	<0.0425		0.425	0.0425	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2-Methylnaphthalene	<0.0490		0.425	0.0490	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2-Methylphenol	<0.0348		0.425	0.0348	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1

Client Sample ID: WOTA-SS-05 (8)

Lab Sample ID: 680-247618-2

Date Collected: 03/05/24 09:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.0554		0.425	0.0554	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Naphthalene	<0.0387		0.425	0.0387	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2-Nitroaniline	<0.0580		2.19	0.0580	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
3-Nitroaniline	<0.0593		2.19	0.0593	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4-Nitroaniline	<0.0631		2.19	0.0631	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Nitrobenzene	<0.0335		0.425	0.0335	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2-Nitrophenol	<0.0528		0.425	0.0528	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
4-Nitrophenol	<0.425		2.19	0.425	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
N-Nitrosodi-n-propylamine	<0.0412		0.425	0.0412	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
N-Nitrosodiphenylamine	<0.0425		0.425	0.0425	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Pentachlorophenol	<0.425		2.19	0.425	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Phenanthrene	<0.0348		0.425	0.0348	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Phenol	<0.0438		0.425	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Pyrene	<0.0348		0.425	0.0348	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
Pyridine	<0.425		0.850	0.425	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,4,5-Trichlorophenol	<0.0451		0.425	0.0451	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1
2,4,6-Trichlorophenol	<0.0374		0.425	0.0374	mg/Kg	☼	03/11/24 10:45	03/11/24 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/11/24 10:45*	*03/11/24 23:21*	*1*
2-Fluorophenol (Surr)	*57*		*18 - 130*	*03/11/24 10:45*	*03/11/24 23:21*	*1*
Nitrobenzene-d5 (Surr)	*59*		*19 - 130*	*03/11/24 10:45*	*03/11/24 23:21*	*1*
Phenol-d5 (Surr)	*58*		*21 - 130*	*03/11/24 10:45*	*03/11/24 23:21*	*1*
Terphenyl-d14 (Surr)	*69*		*31 - 133*	*03/11/24 10:45*	*03/11/24 23:21*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*21 - 132*	*03/11/24 10:45*	*03/11/24 23:21*	*1*

Client Sample ID: WOTA-SS-06 (8)

Lab Sample ID: 680-247618-3

Date Collected: 03/05/24 09:35
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0831**		0.0363	0.0174	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Benzene	<0.000972		0.00725	0.000972	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Bromobenzene	<0.00189		0.00725	0.00189	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Chlorobromomethane	<0.00117		0.00725	0.00117	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Dichlorobromomethane	<0.00133		0.00725	0.00133	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Bromoform	<0.00189		0.00725	0.00189	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Bromomethane	<0.00363		0.00725	0.00363	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
2-Butanone (MEK)	**0.0108**	**J**	0.0363	0.00870	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
n-Butylbenzene	<0.00139		0.00725	0.00139	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
sec-Butylbenzene	<0.00138		0.00725	0.00138	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
tert-Butylbenzene	<0.00160		0.00725	0.00160	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Carbon disulfide	<0.000957		0.00725	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Carbon tetrachloride	<0.00247		0.00725	0.00247	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Chlorobenzene	<0.000754		0.00725	0.000754	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Chloroethane	<0.00174		0.00725	0.00174	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Chloroform	<0.00725		0.00725	0.00725	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Chloromethane	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
2-Chlorotoluene	<0.00117		0.00725	0.00117	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-06 (8)
Date Collected: 03/05/24 09:35
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-3
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.00142		0.00725	0.00142	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Chlorodibromomethane	<0.00174		0.00725	0.00174	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2-Dibromo-3-Chloropropane	<0.00479		0.00725	0.00479	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Ethylene Dibromide	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Dibromomethane	<0.00120		0.00725	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2-Dichlorobenzene	<0.00103		0.00725	0.00103	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,3-Dichlorobenzene	<0.00138		0.00725	0.00138	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,4-Dichlorobenzene	<0.00125		0.00725	0.00125	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
trans-1,4-Dichloro-2-butene	<0.00363		0.00725	0.00363	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Dichlorodifluoromethane	<0.00189		0.00725	0.00189	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1-Dichloroethane	<0.00120		0.00725	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2-Dichloroethane	<0.00119		0.00725	0.00119	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
cis-1,2-Dichloroethene	**0.0102**		0.00725	0.00110	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
trans-1,2-Dichloroethene	<0.00139		0.00725	0.00139	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1-Dichloroethene	<0.00123		0.00725	0.00123	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2-Dichloropropane	<0.00110		0.00725	0.00110	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,3-Dichloropropane	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
2,2-Dichloropropane	<0.00160		0.00725	0.00160	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1-Dichloropropene	<0.00120		0.00725	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
cis-1,3-Dichloropropene	<0.00174		0.00725	0.00174	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
trans-1,3-Dichloropropene	<0.00160		0.00725	0.00160	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Ethylbenzene	<0.000885		0.00725	0.000885	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Hexachlorobutadiene	<0.00363		0.00725	0.00363	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
2-Hexanone	<0.00725		0.0363	0.00725	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Iodomethane	**0.00845**		0.00725	0.00493	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Isopropylbenzene	<0.000986		0.00725	0.000986	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
4-Isopropyltoluene	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Methylene Chloride	<0.0145		0.0218	0.0145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.00725		0.0363	0.00725	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Methyl tert-butyl ether	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Naphthalene	<0.00435		0.00725	0.00435	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
N-Propylbenzene	<0.00131		0.00725	0.00131	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Styrene	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1,1,2-Tetrachloroethane	<0.00160		0.00725	0.00160	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1,2,2-Tetrachloroethane	<0.00119		0.00725	0.00119	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Tetrachloroethene	<0.00435		0.00725	0.00435	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Toluene	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2,3-Trichlorobenzene	<0.00160		0.00725	0.00160	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2,4-Trichlorobenzene	<0.00133		0.00725	0.00133	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1,1-Trichloroethane	<0.00160		0.00725	0.00160	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1,2-Trichloroethane	<0.00113		0.00725	0.00113	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Trichloroethene	**0.00717**	**J**	0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Trichlorofluoromethane	<0.00125		0.00725	0.00125	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2,3-Trichloropropane	<0.00116		0.00725	0.00116	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00122		0.00725	0.00122	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,2,4-Trimethylbenzene	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
1,3,5-Trimethylbenzene	<0.00120		0.00725	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Vinyl acetate	<0.00276		0.0363	0.00276	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Vinyl chloride	**0.00203**	**J**	0.00725	0.00116	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-06 (8)
Date Collected: 03/05/24 09:35
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-3
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00145		0.00725	0.00145	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
m-Xylene & p-Xylene	<0.00189		0.00725	0.00189	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Xylenes, Total	<0.00276		0.0145	0.00276	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Isopropyl ether	<0.000798		0.00725	0.000798	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Hexane	<0.00377		0.00725	0.00377	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
n-Heptane	<0.00128		0.00725	0.00128	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1
Ethyl acetate	<0.00725		0.0290	0.00725	mg/Kg	☼	03/16/24 09:14	03/16/24 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*67 - 130*	*03/16/24 09:14*	*03/16/24 11:56*	*1*
Dibromofluoromethane	*100*		*77 - 127*	*03/16/24 09:14*	*03/16/24 11:56*	*1*
Toluene-d8 (Surr)	*99*		*76 - 127*	*03/16/24 09:14*	*03/16/24 11:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*78 - 146*	*03/16/24 09:14*	*03/16/24 11:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0485		0.390	0.0485	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Acenaphthylene	<0.0426		0.390	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Acetophenone	<0.0331		0.390	0.0331	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Anthracene	<0.0296		0.390	0.0296	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Atrazine	<0.0272		0.390	0.0272	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Benzaldehyde	<0.0686		0.390	0.0686	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Benzo[a]anthracene	<0.0319		0.390	0.0319	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Benzo[a]pyrene	<0.0615		0.390	0.0615	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Benzo[b]fluoranthene	<0.0450		0.390	0.0450	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Benzo[g,h,i]perylene	<0.0260		0.390	0.0260	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Benzo[k]fluoranthene	<0.0769		0.390	0.0769	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
1,1'-Biphenyl	<2.01		2.01	2.01	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Bis(2-chloroethoxy)methane	<0.0461		0.390	0.0461	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Bis(2-chloroethyl)ether	<0.0532		0.390	0.0532	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
bis (2-chloroisopropyl) ether	<0.0355		0.390	0.0355	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Bis(2-ethylhexyl) phthalate	<0.0343		0.390	0.0343	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
4-Bromophenyl phenyl ether	<0.0426		0.390	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Butyl benzyl phthalate	<0.0308		0.390	0.0308	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Caprolactam	<0.0781		0.390	0.0781	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Carbazole	<0.0355		0.390	0.0355	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
4-Chloroaniline	<0.0615		0.781	0.0615	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
4-Chloro-3-methylphenol	<0.0414		0.390	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2-Chloronaphthalene	<0.0414		0.390	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2-Chlorophenol	<0.0473		0.390	0.0473	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
4-Chlorophenyl phenyl ether	<0.0521		0.390	0.0521	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Chrysene	<0.0248		0.390	0.0248	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Dibenz(a,h)anthracene	<0.0461		0.390	0.0461	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Dibenzofuran	<0.0390		0.390	0.0390	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
3,3'-Dichlorobenzidine	<0.0331		0.781	0.0331	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,4-Dichlorophenol	<0.0414		0.390	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Diethyl phthalate	<0.0438		0.390	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,4-Dimethylphenol	<0.0521		0.390	0.0521	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Dimethyl phthalate	<0.0402		0.390	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Di-n-butyl phthalate	<0.0355		0.390	0.0355	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-06 (8)

Lab Sample ID: 680-247618-3

Date Collected: 03/05/24 09:35
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.201		2.01	0.201	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,4-Dinitrophenol	<0.982		2.01	0.982	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,4-Dinitrotoluene	<0.0580		0.390	0.0580	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,6-Dinitrotoluene	<0.0497		0.390	0.0497	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Di-n-octyl phthalate	<0.0343		0.390	0.0343	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Fluoranthene	<0.0379		0.390	0.0379	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Fluorene	<0.0426		0.390	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Hexachlorobenzene	<0.0461		0.390	0.0461	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Hexachlorobutadiene	<0.0426		0.390	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Hexachlorocyclopentadiene	<0.0485		0.390	0.0485	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Hexachloroethane	<0.0331		0.390	0.0331	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Indeno[1,2,3-cd]pyrene	<0.0331		0.390	0.0331	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Isophorone	<0.0390		0.390	0.0390	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2-Methylnaphthalene	<0.0450		0.390	0.0450	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2-Methylphenol	<0.0319		0.390	0.0319	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
3 & 4 Methylphenol	<0.0509		0.390	0.0509	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Naphthalene	<0.0355		0.390	0.0355	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2-Nitroaniline	<0.0532		2.01	0.0532	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
3-Nitroaniline	<0.0544		2.01	0.0544	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
4-Nitroaniline	<0.0580		2.01	0.0580	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Nitrobenzene	<0.0308		0.390	0.0308	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2-Nitrophenol	<0.0485		0.390	0.0485	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
4-Nitrophenol	<0.390		2.01	0.390	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
N-Nitrosodi-n-propylamine	<0.0379		0.390	0.0379	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
N-Nitrosodiphenylamine	<0.0390		0.390	0.0390	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Pentachlorophenol	<0.390		2.01	0.390	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Phenanthrene	<0.0319		0.390	0.0319	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Phenol	<0.0402		0.390	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Pyrene	<0.0319		0.390	0.0319	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
Pyridine	<0.390		0.781	0.390	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,4,5-Trichlorophenol	<0.0414		0.390	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1
2,4,6-Trichlorophenol	<0.0343		0.390	0.0343	mg/Kg	☼	03/11/24 10:45	03/11/24 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/11/24 10:45*	*03/11/24 23:46*	*1*
2-Fluorophenol (Surr)	*59*		*18 - 130*	*03/11/24 10:45*	*03/11/24 23:46*	*1*
Nitrobenzene-d5 (Surr)	*66*		*19 - 130*	*03/11/24 10:45*	*03/11/24 23:46*	*1*
Phenol-d5 (Surr)	*60*		*21 - 130*	*03/11/24 10:45*	*03/11/24 23:46*	*1*
Terphenyl-d14 (Surr)	*72*		*31 - 133*	*03/11/24 10:45*	*03/11/24 23:46*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/11/24 10:45*	*03/11/24 23:46*	*1*

Client Sample ID: WOTA-SS-07 (8)

Lab Sample ID: 680-247618-4

Date Collected: 03/05/24 09:40
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0487**		0.0239	0.0115	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Benzene	<0.000641		0.00478	0.000641	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Bromobenzene	<0.00124		0.00478	0.00124	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1

Client Sample ID: WOTA-SS-07 (8)
Date Collected: 03/05/24 09:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-4
Matrix: Solid
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	<0.000775		0.00478	0.000775	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Dichlorobromomethane	<0.000880		0.00478	0.000880	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Bromoform	<0.00124		0.00478	0.00124	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Bromomethane	<0.00239		0.00478	0.00239	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
2-Butanone (MEK)	**0.00744**	**J**	0.0239	0.00574	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
n-Butylbenzene	<0.000919		0.00478	0.000919	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
sec-Butylbenzene	<0.000909		0.00478	0.000909	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
tert-Butylbenzene	<0.00105		0.00478	0.00105	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Carbon disulfide	**0.00261**	**J**	0.00478	0.000632	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Carbon tetrachloride	<0.00163		0.00478	0.00163	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Chlorobenzene	<0.000498		0.00478	0.000498	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Chloroethane	<0.00115		0.00478	0.00115	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Chloroform	<0.00478		0.00478	0.00478	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Chloromethane	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
2-Chlorotoluene	<0.000775		0.00478	0.000775	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
4-Chlorotoluene	<0.000938		0.00478	0.000938	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Chlorodibromomethane	<0.00115		0.00478	0.00115	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2-Dibromo-3-Chloropropane	<0.00316		0.00478	0.00316	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Ethylene Dibromide	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Dibromomethane	<0.000794		0.00478	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2-Dichlorobenzene	<0.000679		0.00478	0.000679	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,3-Dichlorobenzene	<0.000909		0.00478	0.000909	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,4-Dichlorobenzene	<0.000823		0.00478	0.000823	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
trans-1,4-Dichloro-2-butene	<0.00239		0.00478	0.00239	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Dichlorodifluoromethane	<0.00124		0.00478	0.00124	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1-Dichloroethane	**0.000904**	**J**	0.00478	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2-Dichloroethane	<0.000785		0.00478	0.000785	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
cis-1,2-Dichloroethene	**0.0143**		0.00478	0.000727	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
trans-1,2-Dichloroethene	**0.00204**	**J**	0.00478	0.000919	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1-Dichloroethene	<0.000813		0.00478	0.000813	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2-Dichloropropane	<0.000727		0.00478	0.000727	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,3-Dichloropropane	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
2,2-Dichloropropane	<0.00105		0.00478	0.00105	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1-Dichloropropene	<0.000794		0.00478	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
cis-1,3-Dichloropropene	<0.00115		0.00478	0.00115	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
trans-1,3-Dichloropropene	<0.00105		0.00478	0.00105	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Ethylbenzene	<0.000584		0.00478	0.000584	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Hexachlorobutadiene	<0.00239		0.00478	0.00239	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
2-Hexanone	<0.00478		0.0239	0.00478	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Iodomethane	<0.00325		0.00478	0.00325	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Isopropylbenzene	<0.000651		0.00478	0.000651	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
4-Isopropyltoluene	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Methylene Chloride	<0.00957		0.0144	0.00957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
4-Methyl-2-pentanone (MIBK)	<0.00478		0.0239	0.00478	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Methyl tert-butyl ether	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Naphthalene	<0.00287		0.00478	0.00287	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
N-Propylbenzene	<0.000861		0.00478	0.000861	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Styrene	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1,1,2-Tetrachloroethane	<0.00105		0.00478	0.00105	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1

Client Sample ID: WOTA-SS-07 (8)
Date Collected: 03/05/24 09:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-4
Matrix: Solid
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.000785		0.00478	0.000785	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Tetrachloroethene	<0.00287		0.00478	0.00287	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Toluene	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2,3-Trichlorobenzene	<0.00105		0.00478	0.00105	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2,4-Trichlorobenzene	<0.000880		0.00478	0.000880	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1,1-Trichloroethane	<0.00105		0.00478	0.00105	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1,2-Trichloroethane	<0.000746		0.00478	0.000746	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Trichloroethene	**0.0555**		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Trichlorofluoromethane	<0.000823		0.00478	0.000823	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2,3-Trichloropropane	<0.000766		0.00478	0.000766	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00150**	**J**	0.00478	0.000804	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,2,4-Trimethylbenzene	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
1,3,5-Trimethylbenzene	<0.000794		0.00478	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Vinyl acetate	<0.00182		0.0239	0.00182	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Vinyl chloride	**0.00606**		0.00478	0.000766	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
o-Xylene	<0.000957		0.00478	0.000957	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
m-Xylene & p-Xylene	<0.00124		0.00478	0.00124	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Xylenes, Total	<0.00182		0.00957	0.00182	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Isopropyl ether	<0.000526		0.00478	0.000526	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Hexane	<0.00249		0.00478	0.00249	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
n-Heptane	<0.000842		0.00478	0.000842	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1
Ethyl acetate	<0.00478		0.0191	0.00478	mg/Kg	☼	03/16/24 09:14	03/16/24 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*67 - 130*	*03/16/24 09:14*	*03/16/24 18:12*	*1*
Dibromofluoromethane	*105*		*77 - 127*	*03/16/24 09:14*	*03/16/24 18:12*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*03/16/24 09:14*	*03/16/24 18:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*78 - 146*	*03/16/24 09:14*	*03/16/24 18:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0517		0.416	0.0517	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Acenaphthylene	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Acetophenone	<0.0353		0.416	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Anthracene	<0.0315		0.416	0.0315	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Atrazine	<0.0290		0.416	0.0290	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Benzaldehyde	<0.0731		0.416	0.0731	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Benzo[a]anthracene	**0.0544**	**J**	0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Benzo[a]pyrene	**0.0908**	**J**	0.416	0.0656	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Benzo[b]fluoranthene	**0.0899**	**J**	0.416	0.0479	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Benzo[g,h,i]perylene	**0.0636**	**J**	0.416	0.0277	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Benzo[k]fluoranthene	<0.0820		0.416	0.0820	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
1,1'-Biphenyl	<2.14		2.14	2.14	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Bis(2-chloroethoxy)methane	<0.0492		0.416	0.0492	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Bis(2-chloroethyl)ether	<0.0567		0.416	0.0567	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
bis (2-chloroisopropyl) ether	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Bis(2-ethylhexyl) phthalate	<0.0366		0.416	0.0366	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4-Bromophenyl phenyl ether	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Butyl benzyl phthalate	<0.0328		0.416	0.0328	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-07 (8)
Date Collected: 03/05/24 09:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-4
Matrix: Solid
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	<0.0832		0.416	0.0832	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Carbazole	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4-Chloroaniline	<0.0656		0.832	0.0656	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4-Chloro-3-methylphenol	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2-Chloronaphthalene	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2-Chlorophenol	<0.0504		0.416	0.0504	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4-Chlorophenyl phenyl ether	<0.0555		0.416	0.0555	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Chrysene	**0.0912**	**J**	0.416	0.0265	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Dibenz(a,h)anthracene	<0.0492		0.416	0.0492	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Dibenzofuran	<0.0416		0.416	0.0416	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
3,3'-Dichlorobenzidine	<0.0353		0.832	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,4-Dichlorophenol	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Diethyl phthalate	<0.0467		0.416	0.0467	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,4-Dimethylphenol	<0.0555		0.416	0.0555	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Dimethyl phthalate	<0.0429		0.416	0.0429	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Di-n-butyl phthalate	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4,6-Dinitro-2-methylphenol	<0.214		2.14	0.214	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,4-Dinitrophenol	<1.05		2.14	1.05	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,4-Dinitrotoluene	<0.0618		0.416	0.0618	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,6-Dinitrotoluene	<0.0530		0.416	0.0530	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Di-n-octyl phthalate	<0.0366		0.416	0.0366	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Fluoranthene	<0.0404		0.416	0.0404	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Fluorene	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Hexachlorobenzene	<0.0492		0.416	0.0492	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Hexachlorobutadiene	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Hexachlorocyclopentadiene	<0.0517		0.416	0.0517	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Hexachloroethane	<0.0353		0.416	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Indeno[1,2,3-cd]pyrene	<0.0353		0.416	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Isophorone	<0.0416		0.416	0.0416	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2-Methylnaphthalene	<0.0479		0.416	0.0479	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2-Methylphenol	<0.0340		0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
3 & 4 Methylphenol	<0.0542		0.416	0.0542	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Naphthalene	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2-Nitroaniline	<0.0567		2.14	0.0567	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
3-Nitroaniline	<0.0580		2.14	0.0580	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4-Nitroaniline	<0.0618		2.14	0.0618	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Nitrobenzene	<0.0328		0.416	0.0328	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2-Nitrophenol	<0.0517		0.416	0.0517	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
4-Nitrophenol	<0.416		2.14	0.416	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
N-Nitrosodi-n-propylamine	<0.0404		0.416	0.0404	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
N-Nitrosodiphenylamine	<0.0416		0.416	0.0416	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Pentachlorophenol	<0.416		2.14	0.416	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Phenanthrene	<0.0340		0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Phenol	<0.0429		0.416	0.0429	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Pyrene	**0.114**	**J**	0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
Pyridine	<0.416		0.832	0.416	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,4,5-Trichlorophenol	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1
2,4,6-Trichlorophenol	<0.0366		0.416	0.0366	mg/Kg	☼	03/11/24 10:45	03/12/24 00:12	1

Client Sample ID: WOTA-SS-07 (8)

Lab Sample ID: 680-247618-4

Date Collected: 03/05/24 09:40
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 77.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/11/24 10:45*	*03/12/24 00:12*	*1*
2-Fluorophenol (Surr)	*53*		*18 - 130*	*03/11/24 10:45*	*03/12/24 00:12*	*1*
Nitrobenzene-d5 (Surr)	*64*		*19 - 130*	*03/11/24 10:45*	*03/12/24 00:12*	*1*
Phenol-d5 (Surr)	*55*		*21 - 130*	*03/11/24 10:45*	*03/12/24 00:12*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/12/24 00:12*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*21 - 132*	*03/11/24 10:45*	*03/12/24 00:12*	*1*

Client Sample ID: WOTA-SS-08 (8)

Lab Sample ID: 680-247618-5

Date Collected: 03/05/24 09:45
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0221**	**J**	0.0231	0.0111	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Benzene	<0.000618		0.00461	0.000618	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Bromobenzene	<0.00120		0.00461	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Chlorobromomethane	<0.000747		0.00461	0.000747	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Dichlorobromomethane	<0.000848		0.00461	0.000848	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Bromoform	<0.00120		0.00461	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Bromomethane	<0.00231		0.00461	0.00231	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
2-Butanone (MEK)	<0.00553		0.0231	0.00553	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
n-Butylbenzene	<0.000885		0.00461	0.000885	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
sec-Butylbenzene	<0.000876		0.00461	0.000876	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
tert-Butylbenzene	<0.00101		0.00461	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Carbon disulfide	<0.000609		0.00461	0.000609	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Carbon tetrachloride	<0.00157		0.00461	0.00157	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Chlorobenzene	**0.00139**	**J**	0.00461	0.000480	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Chloroethane	<0.00111		0.00461	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Chloroform	<0.00461		0.00461	0.00461	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Chloromethane	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
2-Chlorotoluene	<0.000747		0.00461	0.000747	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
4-Chlorotoluene	<0.000904		0.00461	0.000904	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Chlorodibromomethane	<0.00111		0.00461	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2-Dibromo-3-Chloropropane	<0.00304		0.00461	0.00304	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Ethylene Dibromide	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Dibromomethane	<0.000765		0.00461	0.000765	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2-Dichlorobenzene	**0.000749**	**J**	0.00461	0.000655	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,3-Dichlorobenzene	<0.000876		0.00461	0.000876	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,4-Dichlorobenzene	<0.000793		0.00461	0.000793	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
trans-1,4-Dichloro-2-butene	<0.00231		0.00461	0.00231	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Dichlorodifluoromethane	<0.00120		0.00461	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1-Dichloroethane	<0.000765		0.00461	0.000765	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2-Dichloroethane	<0.000756		0.00461	0.000756	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
cis-1,2-Dichloroethene	**0.00420**	**J**	0.00461	0.000701	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
trans-1,2-Dichloroethene	<0.000885		0.00461	0.000885	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1-Dichloroethene	<0.000784		0.00461	0.000784	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2-Dichloropropane	<0.000701		0.00461	0.000701	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,3-Dichloropropane	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
2,2-Dichloropropane	<0.00101		0.00461	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1-Dichloropropene	<0.000765		0.00461	0.000765	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-08 (8)
Date Collected: 03/05/24 09:45
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-5
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.00111		0.00461	0.00111	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
trans-1,3-Dichloropropene	<0.00101		0.00461	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Ethylbenzene	<0.000562		0.00461	0.000562	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Hexachlorobutadiene	<0.00231		0.00461	0.00231	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
2-Hexanone	<0.00461		0.0231	0.00461	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Iodomethane	<0.00314		0.00461	0.00314	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Isopropylbenzene	<0.000627		0.00461	0.000627	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
4-Isopropyltoluene	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Methylene Chloride	<0.00922		0.0138	0.00922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
4-Methyl-2-pentanone (MIBK)	<0.00461		0.0231	0.00461	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Methyl tert-butyl ether	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Naphthalene	<0.00277		0.00461	0.00277	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
N-Propylbenzene	<0.000830		0.00461	0.000830	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Styrene	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1,1,2-Tetrachloroethane	<0.00101		0.00461	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1,2,2-Tetrachloroethane	<0.000756		0.00461	0.000756	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Tetrachloroethene	<0.00277		0.00461	0.00277	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Toluene	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2,3-Trichlorobenzene	<0.00101		0.00461	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2,4-Trichlorobenzene	<0.000848		0.00461	0.000848	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1,1-Trichloroethane	<0.00101		0.00461	0.00101	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1,2-Trichloroethane	<0.000719		0.00461	0.000719	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Trichloroethene	**0.0984**		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Trichlorofluoromethane	<0.000793		0.00461	0.000793	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2,3-Trichloropropane	<0.000738		0.00461	0.000738	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.000775		0.00461	0.000775	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,2,4-Trimethylbenzene	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
1,3,5-Trimethylbenzene	<0.000765		0.00461	0.000765	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Vinyl acetate	<0.00175		0.0231	0.00175	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Vinyl chloride	<0.000738		0.00461	0.000738	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
o-Xylene	<0.000922		0.00461	0.000922	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
m-Xylene & p-Xylene	<0.00120		0.00461	0.00120	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Xylenes, Total	<0.00175		0.00922	0.00175	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Isopropyl ether	<0.000507		0.00461	0.000507	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Hexane	<0.00240		0.00461	0.00240	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
n-Heptane	<0.000811		0.00461	0.000811	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1
Ethyl acetate	<0.00461		0.0184	0.00461	mg/Kg	☼	03/16/24 09:14	03/16/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*67 - 130*	*03/16/24 09:14*	*03/16/24 18:37*	*1*
Dibromofluoromethane	*103*		*77 - 127*	*03/16/24 09:14*	*03/16/24 18:37*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*03/16/24 09:14*	*03/16/24 18:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*78 - 146*	*03/16/24 09:14*	*03/16/24 18:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0486		0.391	0.0486	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Acenaphthylene	<0.0427		0.391	0.0427	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Acetophenone	<0.0332		0.391	0.0332	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Anthracene	<0.0296		0.391	0.0296	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-08 (8)
Date Collected: 03/05/24 09:45
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-5
Matrix: Solid
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<0.0273		0.391	0.0273	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Benzaldehyde	<0.0688		0.391	0.0688	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Benzo[a]anthracene	<0.0320		0.391	0.0320	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Benzo[a]pyrene	**0.0682**	**J**	0.391	0.0617	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Benzo[b]fluoranthene	**0.0549**	**J**	0.391	0.0451	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Benzo[g,h,i]perylene	<0.0261		0.391	0.0261	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Benzo[k]fluoranthene	<0.0771		0.391	0.0771	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
1,1'-Biphenyl	<2.02		2.02	2.02	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Bis(2-chloroethoxy)methane	<0.0462		0.391	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Bis(2-chloroethyl)ether	<0.0534		0.391	0.0534	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
bis (2-chloroisopropyl) ether	<0.0356		0.391	0.0356	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Bis(2-ethylhexyl) phthalate	<0.0344		0.391	0.0344	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
4-Bromophenyl phenyl ether	<0.0427		0.391	0.0427	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Butyl benzyl phthalate	<0.0308		0.391	0.0308	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Caprolactam	<0.0783		0.391	0.0783	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Carbazole	<0.0356		0.391	0.0356	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
4-Chloroaniline	<0.0617		0.783	0.0617	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
4-Chloro-3-methylphenol	<0.0415		0.391	0.0415	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2-Chloronaphthalene	<0.0415		0.391	0.0415	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2-Chlorophenol	<0.0474		0.391	0.0474	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
4-Chlorophenyl phenyl ether	<0.0522		0.391	0.0522	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Chrysene	**0.0444**	**J**	0.391	0.0249	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Dibenz(a,h)anthracene	<0.0462		0.391	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Dibenzofuran	<0.0391		0.391	0.0391	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
3,3'-Dichlorobenzidine	<0.0332		0.783	0.0332	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,4-Dichlorophenol	<0.0415		0.391	0.0415	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Diethyl phthalate	<0.0439		0.391	0.0439	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,4-Dimethylphenol	<0.0522		0.391	0.0522	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Dimethyl phthalate	<0.0403		0.391	0.0403	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Di-n-butyl phthalate	<0.0356		0.391	0.0356	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
4,6-Dinitro-2-methylphenol	<0.202		2.02	0.202	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,4-Dinitrophenol	<0.984		2.02	0.984	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,4-Dinitrotoluene	<0.0581		0.391	0.0581	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,6-Dinitrotoluene	<0.0498		0.391	0.0498	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Di-n-octyl phthalate	<0.0344		0.391	0.0344	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Fluoranthene	**0.0581**	**J**	0.391	0.0379	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Fluorene	<0.0427		0.391	0.0427	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Hexachlorobenzene	<0.0462		0.391	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Hexachlorobutadiene	<0.0427		0.391	0.0427	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Hexachlorocyclopentadiene	<0.0486		0.391	0.0486	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Hexachloroethane	<0.0332		0.391	0.0332	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Indeno[1,2,3-cd]pyrene	<0.0332		0.391	0.0332	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Isophorone	<0.0391		0.391	0.0391	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2-Methylnaphthalene	<0.0451		0.391	0.0451	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2-Methylphenol	<0.0320		0.391	0.0320	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
3 & 4 Methylphenol	<0.0510		0.391	0.0510	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Naphthalene	<0.0356		0.391	0.0356	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2-Nitroaniline	<0.0534		2.02	0.0534	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
3-Nitroaniline	<0.0545		2.02	0.0545	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1

Client Sample ID: WOTA-SS-08 (8)

Lab Sample ID: 680-247618-5

Date Collected: 03/05/24 09:45
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<0.0581		2.02	0.0581	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Nitrobenzene	<0.0308		0.391	0.0308	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2-Nitrophenol	<0.0486		0.391	0.0486	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
4-Nitrophenol	<0.391		2.02	0.391	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
N-Nitrosodi-n-propylamine	<0.0379		0.391	0.0379	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
N-Nitrosodiphenylamine	<0.0391		0.391	0.0391	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Pentachlorophenol	<0.391		2.02	0.391	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Phenanthrene	<0.0320		0.391	0.0320	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Phenol	<0.0403		0.391	0.0403	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Pyrene	**0.108**	**J**	0.391	0.0320	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
Pyridine	<0.391		0.783	0.391	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,4,5-Trichlorophenol	<0.0415		0.391	0.0415	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1
2,4,6-Trichlorophenol	<0.0344		0.391	0.0344	mg/Kg	☼	03/11/24 10:45	03/12/24 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*	*03/11/24 10:45*	*03/12/24 00:38*	*1*
2-Fluorophenol (Surr)	*55*		*18 - 130*	*03/11/24 10:45*	*03/12/24 00:38*	*1*
Nitrobenzene-d5 (Surr)	*61*		*19 - 130*	*03/11/24 10:45*	*03/12/24 00:38*	*1*
Phenol-d5 (Surr)	*56*		*21 - 130*	*03/11/24 10:45*	*03/12/24 00:38*	*1*
Terphenyl-d14 (Surr)	*63*		*31 - 133*	*03/11/24 10:45*	*03/12/24 00:38*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*21 - 132*	*03/11/24 10:45*	*03/12/24 00:38*	*1*

Client Sample ID: WOTA-SS-04 (4)

Lab Sample ID: 680-247618-6

Date Collected: 03/05/24 10:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0613**		0.0208	0.0100	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Benzene	<0.000559		0.00417	0.000559	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Bromobenzene	<0.00108		0.00417	0.00108	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Chlorobromomethane	<0.000675		0.00417	0.000675	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Dichlorobromomethane	<0.000767		0.00417	0.000767	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Bromoform	<0.00108		0.00417	0.00108	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Bromomethane	<0.00208		0.00417	0.00208	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
2-Butanone (MEK)	**0.00907**	**J**	0.0208	0.00500	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
n-Butylbenzene	<0.000800		0.00417	0.000800	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
sec-Butylbenzene	<0.000792		0.00417	0.000792	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
tert-Butylbenzene	<0.000917		0.00417	0.000917	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Carbon disulfide	**0.00223**	**J**	0.00417	0.000550	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Carbon tetrachloride	<0.00142		0.00417	0.00142	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Chlorobenzene	<0.000434		0.00417	0.000434	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Chloroethane	<0.00100		0.00417	0.00100	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Chloroform	<0.00417		0.00417	0.00417	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Chloromethane	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
2-Chlorotoluene	<0.000675		0.00417	0.000675	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
4-Chlorotoluene	<0.000817		0.00417	0.000817	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Chlorodibromomethane	<0.00100		0.00417	0.00100	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2-Dibromo-3-Chloropropane	<0.00275		0.00417	0.00275	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Ethylene Dibromide	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1

Client: Terracon Consultants, Inc.
Job ID: 680-247618-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: WOTA-SS-04 (4)
Lab Sample ID: 680-247618-6
Date Collected: 03/05/24 10:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.000692		0.00417	0.000692	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2-Dichlorobenzene	<0.000592		0.00417	0.000592	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,3-Dichlorobenzene	<0.000792		0.00417	0.000792	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,4-Dichlorobenzene	<0.000717		0.00417	0.000717	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
trans-1,4-Dichloro-2-butene	<0.00208		0.00417	0.00208	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Dichlorodifluoromethane	<0.00108		0.00417	0.00108	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1-Dichloroethane	**0.00290**	**J**	0.00417	0.000692	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2-Dichloroethane	<0.000684		0.00417	0.000684	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
cis-1,2-Dichloroethene	**0.0158**		0.00417	0.000634	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
trans-1,2-Dichloroethene	**0.000973**	**J**	0.00417	0.000800	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1-Dichloroethene	<0.000709		0.00417	0.000709	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2-Dichloropropane	<0.000634		0.00417	0.000634	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,3-Dichloropropane	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
2,2-Dichloropropane	<0.000917		0.00417	0.000917	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1-Dichloropropene	<0.000692		0.00417	0.000692	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
cis-1,3-Dichloropropene	<0.00100		0.00417	0.00100	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
trans-1,3-Dichloropropene	<0.000917		0.00417	0.000917	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Ethylbenzene	<0.000509		0.00417	0.000509	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Hexachlorobutadiene	<0.00208		0.00417	0.00208	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
2-Hexanone	<0.00417		0.0208	0.00417	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Iodomethane	<0.00283		0.00417	0.00283	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Isopropylbenzene	<0.000567		0.00417	0.000567	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
4-Isopropyltoluene	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Methylene Chloride	<0.00834		0.0125	0.00834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
4-Methyl-2-pentanone (MIBK)	<0.00417		0.0208	0.00417	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Methyl tert-butyl ether	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Naphthalene	<0.00250		0.00417	0.00250	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
N-Propylbenzene	<0.000750		0.00417	0.000750	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Styrene	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1,1,2-Tetrachloroethane	<0.000917		0.00417	0.000917	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1,2,2-Tetrachloroethane	<0.000684		0.00417	0.000684	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Tetrachloroethene	<0.00250		0.00417	0.00250	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Toluene	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2,3-Trichlorobenzene	<0.000917		0.00417	0.000917	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2,4-Trichlorobenzene	<0.000767		0.00417	0.000767	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1,1-Trichloroethane	<0.000917		0.00417	0.000917	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1,2-Trichloroethane	<0.000650		0.00417	0.000650	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Trichloroethene	**0.00417**		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Trichlorofluoromethane	<0.000717		0.00417	0.000717	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2,3-Trichloropropane	<0.000667		0.00417	0.000667	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.000717**	**J**	0.00417	0.000700	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,2,4-Trimethylbenzene	**0.00105**	**J**	0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
1,3,5-Trimethylbenzene	<0.000692		0.00417	0.000692	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Vinyl acetate	<0.00158		0.0208	0.00158	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Vinyl chloride	**0.00597**		0.00417	0.000667	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
o-Xylene	<0.000834		0.00417	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
m-Xylene & p-Xylene	<0.00108		0.00417	0.00108	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Xylenes, Total	<0.00158		0.00834	0.00158	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Isopropyl ether	<0.000459		0.00417	0.000459	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-04 (4)
Date Collected: 03/05/24 10:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-6
Matrix: Solid
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	<0.00217		0.00417	0.00217	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
n-Heptane	<0.000734		0.00417	0.000734	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1
Ethyl acetate	<0.00417		0.0167	0.00417	mg/Kg	☼	03/16/24 09:14	03/16/24 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*67 - 130*	*03/16/24 09:14*	*03/16/24 19:02*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*03/16/24 09:14*	*03/16/24 19:02*	*1*
Toluene-d8 (Surr)	*97*		*76 - 127*	*03/16/24 09:14*	*03/16/24 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*78 - 146*	*03/16/24 09:14*	*03/16/24 19:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0489		0.394	0.0489	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Acenaphthylene	<0.0429		0.394	0.0429	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Acetophenone	<0.0334		0.394	0.0334	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Anthracene	<0.0298		0.394	0.0298	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Atrazine	<0.0274		0.394	0.0274	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Benzaldehyde	<0.0692		0.394	0.0692	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Benzo[a]anthracene	<0.0322		0.394	0.0322	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Benzo[a]pyrene	<0.0620		0.394	0.0620	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Benzo[b]fluoranthene	<0.0453		0.394	0.0453	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Benzo[g,h,i]perylene	<0.0262		0.394	0.0262	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Benzo[k]fluoranthene	<0.0775		0.394	0.0775	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
1,1'-Biphenyl	<2.03		2.03	2.03	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Bis(2-chloroethoxy)methane	<0.0465		0.394	0.0465	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Bis(2-chloroethyl)ether	<0.0537		0.394	0.0537	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
bis (2-chloroisopropyl) ether	<0.0358		0.394	0.0358	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Bis(2-ethylhexyl) phthalate	<0.0346		0.394	0.0346	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4-Bromophenyl phenyl ether	<0.0429		0.394	0.0429	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Butyl benzyl phthalate	<0.0310		0.394	0.0310	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Caprolactam	<0.0787		0.394	0.0787	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Carbazole	<0.0358		0.394	0.0358	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4-Chloroaniline	<0.0620		0.787	0.0620	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4-Chloro-3-methylphenol	<0.0417		0.394	0.0417	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2-Chloronaphthalene	<0.0417		0.394	0.0417	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2-Chlorophenol	<0.0477		0.394	0.0477	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4-Chlorophenyl phenyl ether	<0.0525		0.394	0.0525	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Chrysene	<0.0250		0.394	0.0250	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Dibenz(a,h)anthracene	<0.0465		0.394	0.0465	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Dibenzofuran	<0.0394		0.394	0.0394	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
3,3'-Dichlorobenzidine	<0.0334		0.787	0.0334	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,4-Dichlorophenol	<0.0417		0.394	0.0417	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Diethyl phthalate	<0.0441		0.394	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,4-Dimethylphenol	<0.0525		0.394	0.0525	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Dimethyl phthalate	<0.0406		0.394	0.0406	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Di-n-butyl phthalate	<0.0358		0.394	0.0358	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4,6-Dinitro-2-methylphenol	<0.203		2.03	0.203	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,4-Dinitrophenol	<0.990		2.03	0.990	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,4-Dinitrotoluene	<0.0584		0.394	0.0584	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,6-Dinitrotoluene	<0.0501		0.394	0.0501	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1

Client Sample ID: WOTA-SS-04 (4)

Lab Sample ID: 680-247618-6

Date Collected: 03/05/24 10:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.0346		0.394	0.0346	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Fluoranthene	<0.0382		0.394	0.0382	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Fluorene	<0.0429		0.394	0.0429	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Hexachlorobenzene	<0.0465		0.394	0.0465	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Hexachlorobutadiene	<0.0429		0.394	0.0429	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Hexachlorocyclopentadiene	<0.0489		0.394	0.0489	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Hexachloroethane	<0.0334		0.394	0.0334	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Indeno[1,2,3-cd]pyrene	<0.0334		0.394	0.0334	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Isophorone	<0.0394		0.394	0.0394	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2-Methylnaphthalene	<0.0453		0.394	0.0453	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2-Methylphenol	<0.0322		0.394	0.0322	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
3 & 4 Methylphenol	<0.0513		0.394	0.0513	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Naphthalene	<0.0358		0.394	0.0358	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2-Nitroaniline	<0.0537		2.03	0.0537	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
3-Nitroaniline	<0.0549		2.03	0.0549	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4-Nitroaniline	<0.0584		2.03	0.0584	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Nitrobenzene	<0.0310		0.394	0.0310	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2-Nitrophenol	<0.0489		0.394	0.0489	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
4-Nitrophenol	<0.394		2.03	0.394	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
N-Nitrosodi-n-propylamine	<0.0382		0.394	0.0382	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
N-Nitrosodiphenylamine	<0.0394		0.394	0.0394	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Pentachlorophenol	<0.394		2.03	0.394	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Phenanthrene	<0.0322		0.394	0.0322	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Phenol	<0.0406		0.394	0.0406	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Pyrene	<0.0322		0.394	0.0322	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
Pyridine	<0.394		0.787	0.394	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,4,5-Trichlorophenol	<0.0417		0.394	0.0417	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1
2,4,6-Trichlorophenol	<0.0346		0.394	0.0346	mg/Kg	☼	03/11/24 10:45	03/12/24 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*25 - 130*	*03/11/24 10:45*	*03/12/24 01:03*	*1*
2-Fluorophenol (Surr)	*59*		*18 - 130*	*03/11/24 10:45*	*03/12/24 01:03*	*1*
Nitrobenzene-d5 (Surr)	*61*		*19 - 130*	*03/11/24 10:45*	*03/12/24 01:03*	*1*
Phenol-d5 (Surr)	*61*		*21 - 130*	*03/11/24 10:45*	*03/12/24 01:03*	*1*
Terphenyl-d14 (Surr)	*71*		*31 - 133*	*03/11/24 10:45*	*03/12/24 01:03*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*21 - 132*	*03/11/24 10:45*	*03/12/24 01:03*	*1*

Client Sample ID: WOTA-SS-05 (4)

Lab Sample ID: 680-247618-7

Date Collected: 03/05/24 10:40
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0619**		0.0237	0.0114	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Benzene	<0.000634		0.00473	0.000634	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Bromobenzene	<0.00123		0.00473	0.00123	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Chlorobromomethane	<0.000767		0.00473	0.000767	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Dichlorobromomethane	<0.000871		0.00473	0.000871	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Bromoform	<0.00123		0.00473	0.00123	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Bromomethane	<0.00237		0.00473	0.00237	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-05 (4)
Date Collected: 03/05/24 10:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-7
Matrix: Solid
Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**0.00657**	**J**	0.0237	0.00568	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
n-Butylbenzene	<0.000909		0.00473	0.000909	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
sec-Butylbenzene	<0.000899		0.00473	0.000899	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
tert-Butylbenzene	<0.00104		0.00473	0.00104	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Carbon disulfide	<0.000625		0.00473	0.000625	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Carbon tetrachloride	<0.00161		0.00473	0.00161	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Chlorobenzene	<0.000492		0.00473	0.000492	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Chloroethane	<0.00114		0.00473	0.00114	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Chloroform	<0.00473		0.00473	0.00473	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Chloromethane	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
2-Chlorotoluene	<0.000767		0.00473	0.000767	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
4-Chlorotoluene	<0.000928		0.00473	0.000928	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Chlorodibromomethane	<0.00114		0.00473	0.00114	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2-Dibromo-3-Chloropropane	<0.00312		0.00473	0.00312	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Ethylene Dibromide	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Dibromomethane	<0.000786		0.00473	0.000786	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2-Dichlorobenzene	<0.000672		0.00473	0.000672	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,3-Dichlorobenzene	<0.000899		0.00473	0.000899	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,4-Dichlorobenzene	<0.000814		0.00473	0.000814	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
trans-1,4-Dichloro-2-butene	<0.00237		0.00473	0.00237	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Dichlorodifluoromethane	<0.00123		0.00473	0.00123	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1-Dichloroethane	**0.00167**	**J**	0.00473	0.000786	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2-Dichloroethane	<0.000776		0.00473	0.000776	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
cis-1,2-Dichloroethene	**0.00225**	**J**	0.00473	0.000719	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
trans-1,2-Dichloroethene	<0.000909		0.00473	0.000909	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1-Dichloroethene	<0.000805		0.00473	0.000805	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2-Dichloropropane	<0.000719		0.00473	0.000719	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,3-Dichloropropane	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
2,2-Dichloropropane	<0.00104		0.00473	0.00104	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1-Dichloropropene	<0.000786		0.00473	0.000786	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
cis-1,3-Dichloropropene	<0.00114		0.00473	0.00114	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
trans-1,3-Dichloropropene	<0.00104		0.00473	0.00104	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Ethylbenzene	<0.000577		0.00473	0.000577	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Hexachlorobutadiene	<0.00237		0.00473	0.00237	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
2-Hexanone	<0.00473		0.0237	0.00473	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Iodomethane	<0.00322		0.00473	0.00322	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Isopropylbenzene	<0.000644		0.00473	0.000644	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
4-Isopropyltoluene	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Methylene Chloride	<0.00947		0.0142	0.00947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.00473		0.0237	0.00473	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Methyl tert-butyl ether	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Naphthalene	<0.00284		0.00473	0.00284	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
N-Propylbenzene	<0.000852		0.00473	0.000852	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Styrene	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1,1,2-Tetrachloroethane	<0.00104		0.00473	0.00104	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1,2,2-Tetrachloroethane	<0.000776		0.00473	0.000776	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Tetrachloroethene	<0.00284		0.00473	0.00284	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Toluene	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2,3-Trichlorobenzene	<0.00104		0.00473	0.00104	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-05 (4)
Date Collected: 03/05/24 10:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-7
Matrix: Solid
Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.000871		0.00473	0.000871	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1,1-Trichloroethane	<0.00104		0.00473	0.00104	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1,2-Trichloroethane	<0.000738		0.00473	0.000738	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Trichloroethene	**0.00231**	**J**	0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Trichlorofluoromethane	<0.000814		0.00473	0.000814	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2,3-Trichloropropane	<0.000757		0.00473	0.000757	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.000795		0.00473	0.000795	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,2,4-Trimethylbenzene	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
1,3,5-Trimethylbenzene	<0.000786		0.00473	0.000786	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Vinyl acetate	<0.00180		0.0237	0.00180	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Vinyl chloride	**0.00652**		0.00473	0.000757	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
o-Xylene	<0.000947		0.00473	0.000947	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
m-Xylene & p-Xylene	<0.00123		0.00473	0.00123	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Xylenes, Total	<0.00180		0.00947	0.00180	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Isopropyl ether	<0.000521		0.00473	0.000521	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Hexane	<0.00246		0.00473	0.00246	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
n-Heptane	<0.000833		0.00473	0.000833	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1
Ethyl acetate	<0.00473		0.0189	0.00473	mg/Kg	☼	03/16/24 09:14	03/16/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*67 - 130*	*03/16/24 09:14*	*03/16/24 19:27*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*03/16/24 09:14*	*03/16/24 19:27*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*03/16/24 09:14*	*03/16/24 19:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*78 - 146*	*03/16/24 09:14*	*03/16/24 19:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0541		0.436	0.0541	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Acenaphthylene	<0.0475		0.436	0.0475	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Acetophenone	<0.0370		0.436	0.0370	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Anthracene	<0.0330		0.436	0.0330	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Atrazine	<0.0304		0.436	0.0304	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Benzaldehyde	<0.0766		0.436	0.0766	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Benzo[a]anthracene	<0.0357		0.436	0.0357	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Benzo[a]pyrene	<0.0687		0.436	0.0687	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Benzo[b]fluoranthene	<0.0502		0.436	0.0502	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Benzo[g,h,i]perylene	<0.0291		0.436	0.0291	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Benzo[k]fluoranthene	<0.0858		0.436	0.0858	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
1,1'-Biphenyl	<2.24		2.24	2.24	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Bis(2-chloroethoxy)methane	<0.0515		0.436	0.0515	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Bis(2-chloroethyl)ether	<0.0594		0.436	0.0594	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
bis (2-chloroisopropyl) ether	<0.0396		0.436	0.0396	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Bis(2-ethylhexyl) phthalate	<0.0383		0.436	0.0383	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4-Bromophenyl phenyl ether	<0.0475		0.436	0.0475	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Butyl benzyl phthalate	<0.0343		0.436	0.0343	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Caprolactam	<0.0872		0.436	0.0872	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Carbazole	<0.0396		0.436	0.0396	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4-Chloroaniline	<0.0687		0.872	0.0687	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4-Chloro-3-methylphenol	<0.0462		0.436	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2-Chloronaphthalene	<0.0462		0.436	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-05 (4)
Date Collected: 03/05/24 10:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-7
Matrix: Solid
Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0528		0.436	0.0528	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4-Chlorophenyl phenyl ether	<0.0581		0.436	0.0581	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Chrysene	<0.0277		0.436	0.0277	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Dibenz(a,h)anthracene	<0.0515		0.436	0.0515	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Dibenzofuran	<0.0436		0.436	0.0436	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
3,3'-Dichlorobenzidine	<0.0370		0.872	0.0370	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,4-Dichlorophenol	<0.0462		0.436	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Diethyl phthalate	<0.0489		0.436	0.0489	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,4-Dimethylphenol	<0.0581		0.436	0.0581	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Dimethyl phthalate	<0.0449		0.436	0.0449	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Di-n-butyl phthalate	<0.0396		0.436	0.0396	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4,6-Dinitro-2-methylphenol	<0.224		2.24	0.224	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,4-Dinitrophenol	<1.10		2.24	1.10	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,4-Dinitrotoluene	<0.0647		0.436	0.0647	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,6-Dinitrotoluene	<0.0555		0.436	0.0555	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Di-n-octyl phthalate	<0.0383		0.436	0.0383	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Fluoranthene	<0.0423		0.436	0.0423	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Fluorene	<0.0475		0.436	0.0475	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Hexachlorobenzene	<0.0515		0.436	0.0515	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Hexachlorobutadiene	<0.0475		0.436	0.0475	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Hexachlorocyclopentadiene	<0.0541		0.436	0.0541	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Hexachloroethane	<0.0370		0.436	0.0370	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Indeno[1,2,3-cd]pyrene	<0.0370		0.436	0.0370	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Isophorone	<0.0436		0.436	0.0436	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2-Methylnaphthalene	<0.0502		0.436	0.0502	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2-Methylphenol	<0.0357		0.436	0.0357	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
3 & 4 Methylphenol	<0.0568		0.436	0.0568	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Naphthalene	<0.0396		0.436	0.0396	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2-Nitroaniline	<0.0594		2.24	0.0594	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
3-Nitroaniline	<0.0607		2.24	0.0607	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4-Nitroaniline	<0.0647		2.24	0.0647	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Nitrobenzene	<0.0343		0.436	0.0343	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2-Nitrophenol	<0.0541		0.436	0.0541	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
4-Nitrophenol	<0.436		2.24	0.436	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
N-Nitrosodi-n-propylamine	<0.0423		0.436	0.0423	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
N-Nitrosodiphenylamine	<0.0436		0.436	0.0436	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Pentachlorophenol	<0.436		2.24	0.436	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Phenanthrene	<0.0357		0.436	0.0357	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Phenol	<0.0449		0.436	0.0449	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Pyrene	<0.0357		0.436	0.0357	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
Pyridine	<0.436		0.872	0.436	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,4,5-Trichlorophenol	<0.0462		0.436	0.0462	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1
2,4,6-Trichlorophenol	<0.0383		0.436	0.0383	mg/Kg	☼	03/11/24 10:45	03/12/24 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/11/24 10:45*	*03/12/24 01:29*	*1*
2-Fluorophenol (Surr)	*56*		*18 - 130*	*03/11/24 10:45*	*03/12/24 01:29*	*1*
Nitrobenzene-d5 (Surr)	*59*		*19 - 130*	*03/11/24 10:45*	*03/12/24 01:29*	*1*
Phenol-d5 (Surr)	*58*		*21 - 130*	*03/11/24 10:45*	*03/12/24 01:29*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/12/24 01:29*	*1*

Client Sample ID: WOTA-SS-05 (4)

Lab Sample ID: 680-247618-7

Date Collected: 03/05/24 10:40
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 74.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*68*		*21 - 132*	*03/11/24 10:45*	*03/12/24 01:29*	*1*

Client Sample ID: WOTA-SS-06 (4)

Lab Sample ID: 680-247618-8

Date Collected: 03/05/24 10:50
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0883**		0.0242	0.0116	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Benzene	<0.000650		0.00485	0.000650	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Bromobenzene	<0.00126		0.00485	0.00126	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Chlorobromomethane	<0.000785		0.00485	0.000785	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Dichlorobromomethane	<0.000892		0.00485	0.000892	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Bromoform	<0.00126		0.00485	0.00126	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Bromomethane	<0.00242		0.00485	0.00242	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
2-Butanone (MEK)	**0.00929**	**J**	0.0242	0.00582	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
n-Butylbenzene	<0.000931		0.00485	0.000931	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
sec-Butylbenzene	<0.000921		0.00485	0.000921	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
tert-Butylbenzene	<0.00107		0.00485	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Carbon disulfide	**0.00378**	**J**	0.00485	0.000640	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Carbon tetrachloride	<0.00165		0.00485	0.00165	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Chlorobenzene	<0.000504		0.00485	0.000504	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Chloroethane	<0.00116		0.00485	0.00116	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Chloroform	<0.00485		0.00485	0.00485	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Chloromethane	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
2-Chlorotoluene	<0.000785		0.00485	0.000785	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
4-Chlorotoluene	<0.000950		0.00485	0.000950	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Chlorodibromomethane	<0.00116		0.00485	0.00116	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2-Dibromo-3-Chloropropane	<0.00320		0.00485	0.00320	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Ethylene Dibromide	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Dibromomethane	<0.000805		0.00485	0.000805	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2-Dichlorobenzene	<0.000688		0.00485	0.000688	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,3-Dichlorobenzene	<0.000921		0.00485	0.000921	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,4-Dichlorobenzene	<0.000834		0.00485	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
trans-1,4-Dichloro-2-butene	<0.00242		0.00485	0.00242	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Dichlorodifluoromethane	<0.00126		0.00485	0.00126	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1-Dichloroethane	<0.000805		0.00485	0.000805	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2-Dichloroethane	<0.000795		0.00485	0.000795	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
cis-1,2-Dichloroethene	**0.00209**	**J**	0.00485	0.000737	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
trans-1,2-Dichloroethene	<0.000931		0.00485	0.000931	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1-Dichloroethene	<0.000824		0.00485	0.000824	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2-Dichloropropane	<0.000737		0.00485	0.000737	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,3-Dichloropropane	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
2,2-Dichloropropane	<0.00107		0.00485	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1-Dichloropropene	<0.000805		0.00485	0.000805	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
cis-1,3-Dichloropropene	<0.00116		0.00485	0.00116	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
trans-1,3-Dichloropropene	<0.00107		0.00485	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Ethylbenzene	<0.000591		0.00485	0.000591	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Hexachlorobutadiene	<0.00242		0.00485	0.00242	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-06 (4)
Date Collected: 03/05/24 10:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-8
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.00485		0.0242	0.00485	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Iodomethane	<0.00330		0.00485	0.00330	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Isopropylbenzene	<0.000659		0.00485	0.000659	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
4-Isopropyltoluene	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Methylene Chloride	<0.00970		0.0145	0.00970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
4-Methyl-2-pentanone (MIBK)	<0.00485		0.0242	0.00485	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Methyl tert-butyl ether	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Naphthalene	<0.00291		0.00485	0.00291	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
N-Propylbenzene	<0.000873		0.00485	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Styrene	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1,1,2-Tetrachloroethane	<0.00107		0.00485	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1,2,2-Tetrachloroethane	<0.000795		0.00485	0.000795	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Tetrachloroethene	<0.00291		0.00485	0.00291	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Toluene	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2,3-Trichlorobenzene	<0.00107		0.00485	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2,4-Trichlorobenzene	<0.000892		0.00485	0.000892	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1,1-Trichloroethane	<0.00107		0.00485	0.00107	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1,2-Trichloroethane	<0.000756		0.00485	0.000756	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Trichloroethene	**0.00508**		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Trichlorofluoromethane	<0.000834		0.00485	0.000834	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2,3-Trichloropropane	<0.000776		0.00485	0.000776	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.000815		0.00485	0.000815	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,2,4-Trimethylbenzene	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
1,3,5-Trimethylbenzene	<0.000805		0.00485	0.000805	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Vinyl acetate	<0.00184		0.0242	0.00184	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Vinyl chloride	<0.000776		0.00485	0.000776	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
o-Xylene	<0.000970		0.00485	0.000970	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
m-Xylene & p-Xylene	<0.00126		0.00485	0.00126	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Xylenes, Total	<0.00184		0.00970	0.00184	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Isopropyl ether	<0.000533		0.00485	0.000533	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Hexane	<0.00252		0.00485	0.00252	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
n-Heptane	<0.000853		0.00485	0.000853	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1
Ethyl acetate	<0.00485		0.0194	0.00485	mg/Kg	☼	03/16/24 09:14	03/16/24 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*67 - 130*	*03/16/24 09:14*	*03/16/24 19:52*	*1*
Dibromofluoromethane	*105*		*77 - 127*	*03/16/24 09:14*	*03/16/24 19:52*	*1*
Toluene-d8 (Surr)	*96*		*76 - 127*	*03/16/24 09:14*	*03/16/24 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*132*		*78 - 146*	*03/16/24 09:14*	*03/16/24 19:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0517		0.416	0.0517	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Acenaphthylene	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Acetophenone	<0.0353		0.416	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Anthracene	<0.0315		0.416	0.0315	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Atrazine	<0.0290		0.416	0.0290	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Benzaldehyde	<0.0731		0.416	0.0731	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Benzo[a]anthracene	<0.0340		0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Benzo[a]pyrene	<0.0655		0.416	0.0655	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-06 (4)
Date Collected: 03/05/24 10:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-8
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.0479		0.416	0.0479	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Benzo[g,h,i]perylene	<0.0277		0.416	0.0277	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Benzo[k]fluoranthene	<0.0819		0.416	0.0819	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
1,1'-Biphenyl	<2.14		2.14	2.14	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Bis(2-chloroethoxy)methane	<0.0491		0.416	0.0491	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Bis(2-chloroethyl)ether	<0.0567		0.416	0.0567	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
bis (2-chloroisopropyl) ether	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Bis(2-ethylhexyl) phthalate	<0.0365		0.416	0.0365	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4-Bromophenyl phenyl ether	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Butyl benzyl phthalate	<0.0328		0.416	0.0328	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Caprolactam	<0.0832		0.416	0.0832	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Carbazole	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4-Chloroaniline	<0.0655		0.832	0.0655	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4-Chloro-3-methylphenol	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2-Chloronaphthalene	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2-Chlorophenol	<0.0504		0.416	0.0504	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4-Chlorophenyl phenyl ether	<0.0554		0.416	0.0554	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Chrysene	<0.0265		0.416	0.0265	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Dibenz(a,h)anthracene	<0.0491		0.416	0.0491	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Dibenzofuran	<0.0416		0.416	0.0416	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
3,3'-Dichlorobenzidine	<0.0353		0.832	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,4-Dichlorophenol	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Diethyl phthalate	<0.0466		0.416	0.0466	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,4-Dimethylphenol	<0.0554		0.416	0.0554	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Dimethyl phthalate	<0.0428		0.416	0.0428	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Di-n-butyl phthalate	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4,6-Dinitro-2-methylphenol	<0.214		2.14	0.214	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,4-Dinitrophenol	<1.05		2.14	1.05	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,4-Dinitrotoluene	<0.0617		0.416	0.0617	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,6-Dinitrotoluene	<0.0529		0.416	0.0529	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Di-n-octyl phthalate	<0.0365		0.416	0.0365	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Fluoranthene	<0.0403		0.416	0.0403	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Fluorene	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Hexachlorobenzene	<0.0491		0.416	0.0491	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Hexachlorobutadiene	<0.0454		0.416	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Hexachlorocyclopentadiene	<0.0517		0.416	0.0517	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Hexachloroethane	<0.0353		0.416	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Indeno[1,2,3-cd]pyrene	<0.0353		0.416	0.0353	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Isophorone	<0.0416		0.416	0.0416	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2-Methylnaphthalene	<0.0479		0.416	0.0479	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2-Methylphenol	<0.0340		0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
3 & 4 Methylphenol	<0.0542		0.416	0.0542	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Naphthalene	<0.0378		0.416	0.0378	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2-Nitroaniline	<0.0567		2.14	0.0567	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
3-Nitroaniline	<0.0580		2.14	0.0580	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4-Nitroaniline	<0.0617		2.14	0.0617	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Nitrobenzene	<0.0328		0.416	0.0328	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2-Nitrophenol	<0.0517		0.416	0.0517	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
4-Nitrophenol	<0.416		2.14	0.416	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1

Client Sample ID: WOTA-SS-06 (4)

Lab Sample ID: 680-247618-8

Date Collected: 03/05/24 10:50
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.0403		0.416	0.0403	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
N-Nitrosodiphenylamine	<0.0416		0.416	0.0416	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Pentachlorophenol	<0.416		2.14	0.416	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Phenanthrene	<0.0340		0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Phenol	<0.0428		0.416	0.0428	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Pyrene	<0.0340		0.416	0.0340	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
Pyridine	<0.416		0.832	0.416	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,4,5-Trichlorophenol	<0.0441		0.416	0.0441	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1
2,4,6-Trichlorophenol	<0.0365		0.416	0.0365	mg/Kg	☼	03/11/24 10:45	03/12/24 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/11/24 10:45*	*03/12/24 01:54*	*1*
2-Fluorophenol (Surr)	*55*		*18 - 130*	*03/11/24 10:45*	*03/12/24 01:54*	*1*
Nitrobenzene-d5 (Surr)	*57*		*19 - 130*	*03/11/24 10:45*	*03/12/24 01:54*	*1*
Phenol-d5 (Surr)	*57*		*21 - 130*	*03/11/24 10:45*	*03/12/24 01:54*	*1*
Terphenyl-d14 (Surr)	*69*		*31 - 133*	*03/11/24 10:45*	*03/12/24 01:54*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*21 - 132*	*03/11/24 10:45*	*03/12/24 01:54*	*1*

Client Sample ID: WOTA-SS-07 (4)

Lab Sample ID: 680-247618-9

Date Collected: 03/05/24 11:00
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0515**		0.0199	0.00953	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Benzene	<0.000532		0.00397	0.000532	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Bromobenzene	<0.00103		0.00397	0.00103	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Chlorobromomethane	<0.000643		0.00397	0.000643	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Dichlorobromomethane	<0.000730		0.00397	0.000730	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Bromoform	<0.00103		0.00397	0.00103	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Bromomethane	<0.00199		0.00397	0.00199	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
2-Butanone (MEK)	**0.00554**	**J**	0.0199	0.00476	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
n-Butylbenzene	<0.000762		0.00397	0.000762	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
sec-Butylbenzene	<0.000754		0.00397	0.000754	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
tert-Butylbenzene	<0.000873		0.00397	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Carbon disulfide	**0.00157**	**J**	0.00397	0.000524	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Carbon tetrachloride	<0.00135		0.00397	0.00135	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Chlorobenzene	<0.000413		0.00397	0.000413	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Chloroethane	<0.000953		0.00397	0.000953	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Chloroform	<0.00397		0.00397	0.00397	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Chloromethane	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
2-Chlorotoluene	<0.000643		0.00397	0.000643	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
4-Chlorotoluene	<0.000778		0.00397	0.000778	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Chlorodibromomethane	<0.000953		0.00397	0.000953	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2-Dibromo-3-Chloropropane	<0.00262		0.00397	0.00262	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Ethylene Dibromide	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Dibromomethane	<0.000659		0.00397	0.000659	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2-Dichlorobenzene	<0.000564		0.00397	0.000564	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,3-Dichlorobenzene	<0.000754		0.00397	0.000754	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,4-Dichlorobenzene	<0.000683		0.00397	0.000683	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-07 (4)
Date Collected: 03/05/24 11:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-9
Matrix: Solid
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<0.00199		0.00397	0.00199	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Dichlorodifluoromethane	<0.00103		0.00397	0.00103	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1-Dichloroethane	**0.00394**	**J**	0.00397	0.000659	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2-Dichloroethane	<0.000651		0.00397	0.000651	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
cis-1,2-Dichloroethene	**0.0398**		0.00397	0.000603	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
trans-1,2-Dichloroethene	**0.00347**	**J**	0.00397	0.000762	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1-Dichloroethene	**0.000964**	**J**	0.00397	0.000675	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2-Dichloropropane	<0.000603		0.00397	0.000603	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,3-Dichloropropane	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
2,2-Dichloropropane	<0.000873		0.00397	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1-Dichloropropene	<0.000659		0.00397	0.000659	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
cis-1,3-Dichloropropene	<0.000953		0.00397	0.000953	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
trans-1,3-Dichloropropene	<0.000873		0.00397	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Ethylbenzene	<0.000484		0.00397	0.000484	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Hexachlorobutadiene	<0.00199		0.00397	0.00199	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
2-Hexanone	<0.00397		0.0199	0.00397	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Iodomethane	<0.00270		0.00397	0.00270	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Isopropylbenzene	<0.000540		0.00397	0.000540	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
4-Isopropyltoluene	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Methylene Chloride	<0.00794		0.0119	0.00794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
4-Methyl-2-pentanone (MIBK)	<0.00397		0.0199	0.00397	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Methyl tert-butyl ether	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Naphthalene	<0.00238		0.00397	0.00238	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
N-Propylbenzene	<0.000715		0.00397	0.000715	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Styrene	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1,1,2-Tetrachloroethane	<0.000873		0.00397	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1,2,2-Tetrachloroethane	<0.000651		0.00397	0.000651	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Tetrachloroethene	<0.00238		0.00397	0.00238	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Toluene	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2,3-Trichlorobenzene	<0.000873		0.00397	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2,4-Trichlorobenzene	<0.000730		0.00397	0.000730	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1,1-Trichloroethane	<0.000873		0.00397	0.000873	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1,2-Trichloroethane	<0.000619		0.00397	0.000619	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Trichloroethene	**0.0583**		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Trichlorofluoromethane	<0.000683		0.00397	0.000683	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2,3-Trichloropropane	<0.000635		0.00397	0.000635	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.000667		0.00397	0.000667	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,2,4-Trimethylbenzene	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
1,3,5-Trimethylbenzene	<0.000659		0.00397	0.000659	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Vinyl acetate	<0.00151		0.0199	0.00151	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Vinyl chloride	**0.000679**	**J**	0.00397	0.000635	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
o-Xylene	<0.000794		0.00397	0.000794	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
m-Xylene & p-Xylene	<0.00103		0.00397	0.00103	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Xylenes, Total	<0.00151		0.00794	0.00151	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Isopropyl ether	<0.000437		0.00397	0.000437	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Hexane	<0.00206		0.00397	0.00206	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
n-Heptane	<0.000699		0.00397	0.000699	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1
Ethyl acetate	<0.00397		0.0159	0.00397	mg/Kg	☼	03/16/24 09:14	03/16/24 20:17	1

Client Sample ID: WOTA-SS-07 (4)
Date Collected: 03/05/24 11:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-9
Matrix: Solid
Percent Solids: 81.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*67 - 130*	*03/16/24 09:14*	*03/16/24 20:17*	*1*
Dibromofluoromethane	*103*		*77 - 127*	*03/16/24 09:14*	*03/16/24 20:17*	*1*
Toluene-d8 (Surr)	*98*		*76 - 127*	*03/16/24 09:14*	*03/16/24 20:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*78 - 146*	*03/16/24 09:14*	*03/16/24 20:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0477		0.384	0.0477	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Acenaphthylene	<0.0419		0.384	0.0419	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Acetophenone	<0.0326		0.384	0.0326	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Anthracene	<0.0291		0.384	0.0291	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Atrazine	<0.0267		0.384	0.0267	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Benzaldehyde	<0.0675		0.384	0.0675	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Benzo[a]anthracene	<0.0314		0.384	0.0314	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Benzo[a]pyrene	<0.0605		0.384	0.0605	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Benzo[b]fluoranthene	<0.0442		0.384	0.0442	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Benzo[g,h,i]perylene	<0.0256		0.384	0.0256	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Benzo[k]fluoranthene	<0.0756		0.384	0.0756	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
1,1'-Biphenyl	<1.98		1.98	1.98	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Bis(2-chloroethoxy)methane	<0.0454		0.384	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Bis(2-chloroethyl)ether	<0.0523		0.384	0.0523	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
bis (2-chloroisopropyl) ether	<0.0349		0.384	0.0349	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Bis(2-ethylhexyl) phthalate	<0.0337		0.384	0.0337	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4-Bromophenyl phenyl ether	<0.0419		0.384	0.0419	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Butyl benzyl phthalate	<0.0302		0.384	0.0302	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Caprolactam	<0.0768		0.384	0.0768	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Carbazole	<0.0349		0.384	0.0349	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4-Chloroaniline	<0.0605		0.768	0.0605	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4-Chloro-3-methylphenol	<0.0407		0.384	0.0407	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2-Chloronaphthalene	<0.0407		0.384	0.0407	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2-Chlorophenol	<0.0465		0.384	0.0465	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4-Chlorophenyl phenyl ether	<0.0512		0.384	0.0512	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Chrysene	<0.0244		0.384	0.0244	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Dibenz(a,h)anthracene	<0.0454		0.384	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Dibenzofuran	<0.0384		0.384	0.0384	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
3,3'-Dichlorobenzidine	<0.0326		0.768	0.0326	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,4-Dichlorophenol	<0.0407		0.384	0.0407	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Diethyl phthalate	<0.0430		0.384	0.0430	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,4-Dimethylphenol	<0.0512		0.384	0.0512	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Dimethyl phthalate	<0.0395		0.384	0.0395	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Di-n-butyl phthalate	<0.0349		0.384	0.0349	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4,6-Dinitro-2-methylphenol	<0.198		1.98	0.198	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,4-Dinitrophenol	<0.965		1.98	0.965	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,4-Dinitrotoluene	<0.0570		0.384	0.0570	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,6-Dinitrotoluene	<0.0488		0.384	0.0488	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Di-n-octyl phthalate	<0.0337		0.384	0.0337	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Fluoranthene	<0.0372		0.384	0.0372	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Fluorene	<0.0419		0.384	0.0419	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Hexachlorobenzene	<0.0454		0.384	0.0454	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Hexachlorobutadiene	<0.0419		0.384	0.0419	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-07 (4)

Lab Sample ID: 680-247618-9

Date Collected: 03/05/24 11:00
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0477		0.384	0.0477	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Hexachloroethane	<0.0326		0.384	0.0326	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Indeno[1,2,3-cd]pyrene	<0.0326		0.384	0.0326	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Isophorone	<0.0384		0.384	0.0384	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2-Methylnaphthalene	<0.0442		0.384	0.0442	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2-Methylphenol	<0.0314		0.384	0.0314	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
3 & 4 Methylphenol	<0.0500		0.384	0.0500	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Naphthalene	<0.0349		0.384	0.0349	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2-Nitroaniline	<0.0523		1.98	0.0523	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
3-Nitroaniline	<0.0535		1.98	0.0535	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4-Nitroaniline	<0.0570		1.98	0.0570	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Nitrobenzene	<0.0302		0.384	0.0302	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2-Nitrophenol	<0.0477		0.384	0.0477	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
4-Nitrophenol	<0.384		1.98	0.384	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
N-Nitrosodi-n-propylamine	<0.0372		0.384	0.0372	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
N-Nitrosodiphenylamine	<0.0384		0.384	0.0384	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Pentachlorophenol	<0.384		1.98	0.384	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Phenanthrene	<0.0314		0.384	0.0314	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Phenol	<0.0395		0.384	0.0395	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Pyrene	<0.0314		0.384	0.0314	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
Pyridine	<0.384		0.768	0.384	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,4,5-Trichlorophenol	<0.0407		0.384	0.0407	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1
2,4,6-Trichlorophenol	<0.0337		0.384	0.0337	mg/Kg	☼	03/11/24 10:45	03/12/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/11/24 10:45*	*03/12/24 02:19*	*1*
2-Fluorophenol (Surr)	*60*		*18 - 130*	*03/11/24 10:45*	*03/12/24 02:19*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/11/24 10:45*	*03/12/24 02:19*	*1*
Phenol-d5 (Surr)	*61*		*21 - 130*	*03/11/24 10:45*	*03/12/24 02:19*	*1*
Terphenyl-d14 (Surr)	*71*		*31 - 133*	*03/11/24 10:45*	*03/12/24 02:19*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*21 - 132*	*03/11/24 10:45*	*03/12/24 02:19*	*1*

Client Sample ID: WOTA-SS-08 (4)

Lab Sample ID: 680-247618-10

Date Collected: 03/05/24 11:10
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0600**	**B**	0.0578	0.0127	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Benzene	<0.00277		0.00578	0.00277	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Bromobenzene	<0.00196		0.00578	0.00196	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Chlorobromomethane	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Dichlorobromomethane	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Bromoform	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Bromomethane	<0.00277	*+	0.00578	0.00277	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
2-Butanone (MEK)	<0.0106		0.0289	0.0106	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
n-Butylbenzene	<0.00220		0.00578	0.00220	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
sec-Butylbenzene	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
tert-Butylbenzene	<0.00289		0.00578	0.00289	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Carbon disulfide	<0.00243		0.00578	0.00243	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-08 (4)
Date Collected: 03/05/24 11:10
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-10
Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00243		0.00578	0.00243	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Chlorobenzene	<0.00162		0.00578	0.00162	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Chloroethane	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Chloroform	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Chloromethane	<0.00277		0.00578	0.00277	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
2-Chlorotoluene	<0.00266		0.00578	0.00266	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
4-Chlorotoluene	<0.00243		0.00578	0.00243	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Chlorodibromomethane	<0.00243		0.00578	0.00243	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2-Dibromo-3-Chloropropane	<0.00185		0.0116	0.00185	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Ethylene Dibromide	<0.00196		0.00578	0.00196	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Dibromomethane	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2-Dichlorobenzene	<0.00196		0.00578	0.00196	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,3-Dichlorobenzene	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,4-Dichlorobenzene	<0.00208		0.00578	0.00208	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
trans-1,4-Dichloro-2-butene	<0.00277		0.0116	0.00277	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Dichlorodifluoromethane	<0.00370		0.00578	0.00370	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1-Dichloroethane	<0.00335		0.00578	0.00335	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2-Dichloroethane	<0.00266		0.00578	0.00266	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
cis-1,2-Dichloroethene	**0.00427**	**J**	0.00578	0.00335	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
trans-1,2-Dichloroethene	<0.00266		0.00578	0.00266	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1-Dichloroethene	<0.00416		0.00578	0.00416	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2-Dichloropropane	<0.00300		0.00578	0.00300	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,3-Dichloropropane	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
2,2-Dichloropropane	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1-Dichloropropene	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
cis-1,3-Dichloropropene	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
trans-1,3-Dichloropropene	<0.00300		0.00578	0.00300	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Ethylbenzene	<0.00243		0.00578	0.00243	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Hexachlorobutadiene	<0.00474		0.00578	0.00474	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
2-Hexanone	<0.0220		0.0289	0.0220	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Iodomethane	<0.00196		0.00578	0.00196	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Isopropylbenzene	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
4-Isopropyltoluene	<0.00300		0.00578	0.00300	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Methylene Chloride	<0.00925		0.0116	0.00925	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
4-Methyl-2-pentanone (MIBK)	<0.0208		0.0289	0.0208	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Methyl tert-butyl ether	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Naphthalene	<0.00358		0.00578	0.00358	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
N-Propylbenzene	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Styrene	<0.00220		0.00578	0.00220	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1,1,2-Tetrachloroethane	<0.00150		0.00578	0.00150	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1,2,2-Tetrachloroethane	<0.00243		0.00578	0.00243	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Tetrachloroethene	<0.00300		0.00578	0.00300	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Toluene	<0.00300		0.00578	0.00300	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2,3-Trichlorobenzene	<0.00231		0.00578	0.00231	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2,4-Trichlorobenzene	<0.00289		0.00578	0.00289	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1,1-Trichloroethane	<0.00300		0.00578	0.00300	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1,2-Trichloroethane	<0.00173		0.00578	0.00173	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Trichloroethene	**0.00418**	**J**	0.00578	0.00208	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Trichlorofluoromethane	<0.00358		0.00578	0.00358	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1

Client Sample ID: WOTA-SS-08 (4)
Date Collected: 03/05/24 11:10
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-10
Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.00208		0.00578	0.00208	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00335		0.00578	0.00335	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,2,4-Trimethylbenzene	<0.00289		0.00578	0.00289	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
1,3,5-Trimethylbenzene	<0.00277		0.00578	0.00277	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Vinyl acetate	<0.00636		0.0116	0.00636	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Vinyl chloride	<0.00324		0.00578	0.00324	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
o-Xylene	<0.00266		0.00578	0.00266	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
m-Xylene & p-Xylene	<0.00254		0.00578	0.00254	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Xylenes, Total	<0.00416		0.0116	0.00416	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Isopropyl ether	<0.00173		0.0116	0.00173	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Hexane	<0.00196		0.00578	0.00196	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
n-Heptane	<0.00497		0.00578	0.00497	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1
Ethyl acetate	<0.0116		0.0116	0.0116	mg/Kg	☼	03/14/24 12:41	03/15/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*123*		*65 - 130*	*03/14/24 12:41*	*03/15/24 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*132*	*S1+*	*65 - 130*	*03/14/24 12:41*	*03/15/24 14:30*	*1*
Dibromofluoromethane (Surr)	*123*		*65 - 130*	*03/14/24 12:41*	*03/15/24 14:30*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*03/14/24 12:41*	*03/15/24 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0540		0.434	0.0540	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Acenaphthylene	<0.0474		0.434	0.0474	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Acetophenone	<0.0368		0.434	0.0368	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Anthracene	<0.0329		0.434	0.0329	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Atrazine	<0.0303		0.434	0.0303	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Benzaldehyde	<0.0763		0.434	0.0763	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Benzo[a]anthracene	<0.0355		0.434	0.0355	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Benzo[a]pyrene	<0.0684		0.434	0.0684	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Benzo[b]fluoranthene	<0.0500		0.434	0.0500	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Benzo[g,h,i]perylene	<0.0290		0.434	0.0290	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Benzo[k]fluoranthene	<0.0855		0.434	0.0855	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
1,1'-Biphenyl	<2.24		2.24	2.24	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Bis(2-chloroethoxy)methane	<0.0513		0.434	0.0513	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Bis(2-chloroethyl)ether	<0.0592		0.434	0.0592	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
bis (2-chloroisopropyl) ether	<0.0395		0.434	0.0395	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Bis(2-ethylhexyl) phthalate	<0.0382		0.434	0.0382	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4-Bromophenyl phenyl ether	<0.0474		0.434	0.0474	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Butyl benzyl phthalate	<0.0342		0.434	0.0342	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Caprolactam	<0.0869		0.434	0.0869	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Carbazole	<0.0395		0.434	0.0395	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4-Chloroaniline	<0.0684		0.869	0.0684	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4-Chloro-3-methylphenol	<0.0461		0.434	0.0461	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2-Chloronaphthalene	<0.0461		0.434	0.0461	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2-Chlorophenol	<0.0526		0.434	0.0526	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4-Chlorophenyl phenyl ether	<0.0579		0.434	0.0579	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Chrysene	<0.0276		0.434	0.0276	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Dibenz(a,h)anthracene	<0.0513		0.434	0.0513	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Dibenzofuran	<0.0434		0.434	0.0434	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-08 (4)
Date Collected: 03/05/24 11:10
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-10
Matrix: Solid
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.0368		0.869	0.0368	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,4-Dichlorophenol	<0.0461		0.434	0.0461	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Diethyl phthalate	<0.0487		0.434	0.0487	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,4-Dimethylphenol	<0.0579		0.434	0.0579	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Dimethyl phthalate	<0.0447		0.434	0.0447	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Di-n-butyl phthalate	<0.0395		0.434	0.0395	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4,6-Dinitro-2-methylphenol	<0.224		2.24	0.224	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,4-Dinitrophenol	<1.09		2.24	1.09	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,4-Dinitrotoluene	<0.0645		0.434	0.0645	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,6-Dinitrotoluene	<0.0553		0.434	0.0553	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Di-n-octyl phthalate	<0.0382		0.434	0.0382	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Fluoranthene	<0.0421		0.434	0.0421	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Fluorene	<0.0474		0.434	0.0474	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Hexachlorobenzene	<0.0513		0.434	0.0513	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Hexachlorobutadiene	<0.0474		0.434	0.0474	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Hexachlorocyclopentadiene	<0.0540		0.434	0.0540	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Hexachloroethane	<0.0368		0.434	0.0368	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Indeno[1,2,3-cd]pyrene	<0.0368		0.434	0.0368	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Isophorone	<0.0434		0.434	0.0434	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2-Methylnaphthalene	<0.0500		0.434	0.0500	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2-Methylphenol	<0.0355		0.434	0.0355	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
3 & 4 Methylphenol	<0.0566		0.434	0.0566	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Naphthalene	<0.0395		0.434	0.0395	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2-Nitroaniline	<0.0592		2.24	0.0592	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
3-Nitroaniline	<0.0605		2.24	0.0605	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4-Nitroaniline	<0.0645		2.24	0.0645	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Nitrobenzene	<0.0342		0.434	0.0342	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2-Nitrophenol	<0.0540		0.434	0.0540	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
4-Nitrophenol	<0.434		2.24	0.434	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
N-Nitrosodi-n-propylamine	<0.0421		0.434	0.0421	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
N-Nitrosodiphenylamine	<0.0434		0.434	0.0434	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Pentachlorophenol	<0.434		2.24	0.434	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Phenanthrene	<0.0355		0.434	0.0355	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Phenol	<0.0447		0.434	0.0447	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Pyrene	<0.0355		0.434	0.0355	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
Pyridine	<0.434		0.869	0.434	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,4,5-Trichlorophenol	<0.0461		0.434	0.0461	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1
2,4,6-Trichlorophenol	<0.0382		0.434	0.0382	mg/Kg	☼	03/11/24 10:45	03/12/24 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/11/24 10:45*	*03/12/24 02:45*	*1*
2-Fluorophenol (Surr)	*61*		*18 - 130*	*03/11/24 10:45*	*03/12/24 02:45*	*1*
Nitrobenzene-d5 (Surr)	*58*		*19 - 130*	*03/11/24 10:45*	*03/12/24 02:45*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/11/24 10:45*	*03/12/24 02:45*	*1*
Terphenyl-d14 (Surr)	*73*		*31 - 133*	*03/11/24 10:45*	*03/12/24 02:45*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*21 - 132*	*03/11/24 10:45*	*03/12/24 02:45*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: Trip Blank
Date Collected: 03/05/24 00:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247618-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 16:01	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 16:01	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 16:01	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 16:01	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 16:01	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 16:01	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 16:01	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 16:01	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 16:01	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:01	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 16:01	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 16:01	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 16:01	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 16:01	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 16:01	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 16:01	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 16:01	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 16:01	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 16:01	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:01	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:01	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:01	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:01	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 16:01	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 16:01	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 16:01	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 16:01	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 16:01	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 16:01	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 16:01	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 16:01	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 16:01	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 16:01	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 16:01	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 16:01	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 16:01	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 16:01	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 16:01	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 16:01	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 16:01	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 16:01	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 16:01	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 16:01	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 16:01	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 16:01	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 16:01	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 16:01	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 16:01	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 16:01	1

Client: Terracon Consultants, Inc.
Job ID: 680-247618-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: Trip Blank
Lab Sample ID: 680-247618-11
Date Collected: 03/05/24 00:00
Matrix: Water
Date Received: 03/06/24 10:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 16:01	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 16:01	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 16:01	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 16:01	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:01	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 16:01	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 16:01	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 16:01	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 16:01	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 16:01	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 16:01	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 16:01	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 16:01	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 16:01	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 16:01	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 16:01	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 16:01	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 16:01	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 16:01	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:01	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 16:01	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 16:01	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 16:01	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/07/24 16:01*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/07/24 16:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*03/07/24 16:01*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/07/24 16:01*	*1*

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

Lab Sample ID: MB 400-664701/2-A
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0120		0.0250	0.0120	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Benzene	<0.000670		0.00500	0.000670	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Bromobenzene	<0.00130		0.00500	0.00130	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Chlorobromomethane	<0.000810		0.00500	0.000810	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Dichlorobromomethane	<0.000920		0.00500	0.000920	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Bromoform	<0.00130		0.00500	0.00130	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Bromomethane	<0.00250		0.00500	0.00250	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
2-Butanone (MEK)	<0.00600		0.0250	0.00600	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
n-Butylbenzene	<0.000960		0.00500	0.000960	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
sec-Butylbenzene	<0.000950		0.00500	0.000950	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
tert-Butylbenzene	<0.00110		0.00500	0.00110	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Carbon disulfide	<0.000660		0.00500	0.000660	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Carbon tetrachloride	<0.00170		0.00500	0.00170	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Chlorobenzene	<0.000520		0.00500	0.000520	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Chloroethane	<0.00120		0.00500	0.00120	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Chloroform	<0.00500		0.00500	0.00500	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Chloromethane	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
2-Chlorotoluene	<0.000810		0.00500	0.000810	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
4-Chlorotoluene	<0.000980		0.00500	0.000980	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Chlorodibromomethane	<0.00120		0.00500	0.00120	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2-Dibromo-3-Chloropropane	<0.00330		0.00500	0.00330	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Ethylene Dibromide	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Dibromomethane	<0.000830		0.00500	0.000830	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2-Dichlorobenzene	<0.000710		0.00500	0.000710	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,3-Dichlorobenzene	<0.000950		0.00500	0.000950	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,4-Dichlorobenzene	<0.000860		0.00500	0.000860	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
trans-1,4-Dichloro-2-butene	<0.00250		0.00500	0.00250	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Dichlorodifluoromethane	<0.00130		0.00500	0.00130	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1-Dichloroethane	<0.000830		0.00500	0.000830	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2-Dichloroethane	<0.000820		0.00500	0.000820	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
cis-1,2-Dichloroethene	<0.000760		0.00500	0.000760	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
trans-1,2-Dichloroethene	<0.000960		0.00500	0.000960	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1-Dichloroethene	<0.000850		0.00500	0.000850	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2-Dichloropropane	<0.000760		0.00500	0.000760	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,3-Dichloropropane	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
2,2-Dichloropropane	<0.00110		0.00500	0.00110	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1-Dichloropropene	<0.000830		0.00500	0.000830	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
cis-1,3-Dichloropropene	<0.00120		0.00500	0.00120	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
trans-1,3-Dichloropropene	<0.00110		0.00500	0.00110	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Ethylbenzene	<0.000610		0.00500	0.000610	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
2-Hexanone	<0.00500		0.0250	0.00500	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Iodomethane	<0.00340		0.00500	0.00340	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Isopropylbenzene	<0.000680		0.00500	0.000680	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
4-Isopropyltoluene	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Methylene Chloride	<0.0100		0.0150	0.0100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
4-Methyl-2-pentanone (MIBK)	<0.00500		0.0250	0.00500	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Methyl tert-butyl ether	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1

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

Lab Sample ID: MB 400-664701/2-A
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00300		0.00500	0.00300	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
N-Propylbenzene	<0.000900		0.00500	0.000900	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Styrene	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1,1,2-Tetrachloroethane	<0.00110		0.00500	0.00110	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1,2,2-Tetrachloroethane	<0.000820		0.00500	0.000820	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Tetrachloroethene	<0.00300		0.00500	0.00300	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Toluene	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2,3-Trichlorobenzene	<0.00110		0.00500	0.00110	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2,4-Trichlorobenzene	<0.000920		0.00500	0.000920	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1,1-Trichloroethane	<0.00110		0.00500	0.00110	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1,2-Trichloroethane	<0.000780		0.00500	0.000780	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Trichloroethene	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Trichlorofluoromethane	<0.000860		0.00500	0.000860	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2,3-Trichloropropane	<0.000800		0.00500	0.000800	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.000840		0.00500	0.000840	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,2,4-Trimethylbenzene	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
1,3,5-Trimethylbenzene	<0.000830		0.00500	0.000830	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Vinyl acetate	<0.00190		0.0250	0.00190	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Vinyl chloride	<0.000800		0.00500	0.000800	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
o-Xylene	<0.00100		0.00500	0.00100	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
m-Xylene & p-Xylene	<0.00130		0.00500	0.00130	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Xylenes, Total	<0.00190		0.0100	0.00190	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Isopropyl ether	<0.000550		0.00500	0.000550	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Hexane	<0.00260		0.00500	0.00260	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
n-Heptane	<0.000880		0.00500	0.000880	mg/Kg		03/16/24 09:14	03/16/24 10:16	1
Ethyl acetate	<0.00500		0.0200	0.00500	mg/Kg		03/16/24 09:14	03/16/24 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*67 - 130*	*03/16/24 09:14*	*03/16/24 10:16*	*1*
Dibromofluoromethane	*99*		*77 - 127*	*03/16/24 09:14*	*03/16/24 10:16*	*1*
Toluene-d8 (Surr)	*101*		*76 - 127*	*03/16/24 09:14*	*03/16/24 10:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 146*	*03/16/24 09:14*	*03/16/24 10:16*	*1*

Lab Sample ID: LCS 400-664701/1-A
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.200	0.2349		mg/Kg		117	48 - 160
Benzene	0.0500	0.05030		mg/Kg		101	65 - 130
Bromobenzene	0.0500	0.05203		mg/Kg		104	65 - 130
Chlorobromomethane	0.0500	0.04390		mg/Kg		88	65 - 130
Dichlorobromomethane	0.0500	0.05992		mg/Kg		120	61 - 130
Bromoform	0.0500	0.05489		mg/Kg		110	52 - 136
Bromomethane	0.0500	0.02938		mg/Kg		59	12 - 160
2-Butanone (MEK)	0.200	0.2188		mg/Kg		109	55 - 130
n-Butylbenzene	0.0500	0.05667		mg/Kg		113	66 - 130
sec-Butylbenzene	0.0500	0.05447		mg/Kg		109	67 - 130

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

Lab Sample ID: LCS 400-664701/1-A
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	0.0500	0.05689		mg/Kg		114	67 - 130
Carbon disulfide	0.0500	0.03453		mg/Kg		69	46 - 141
Carbon tetrachloride	0.0500	0.05292		mg/Kg		106	60 - 130
Chlorobenzene	0.0500	0.04985		mg/Kg		100	70 - 130
Chloroethane	0.0500	0.04094		mg/Kg		82	55 - 134
Chloroform	0.0500	0.05182		mg/Kg		104	62 - 130
Chloromethane	0.0500	0.04896		mg/Kg		98	49 - 136
2-Chlorotoluene	0.0500	0.05451		mg/Kg		109	67 - 130
4-Chlorotoluene	0.0500	0.05494		mg/Kg		110	66 - 130
Chlorodibromomethane	0.0500	0.05480		mg/Kg		110	58 - 132
1,2-Dibromo-3-Chloropropane	0.0500	0.05146		mg/Kg		103	49 - 130
Ethylene Dibromide	0.0500	0.05099		mg/Kg		102	67 - 130
Dibromomethane	0.0500	0.05267		mg/Kg		105	65 - 130
1,2-Dichlorobenzene	0.0500	0.04931		mg/Kg		99	64 - 130
1,3-Dichlorobenzene	0.0500	0.05165		mg/Kg		103	66 - 130
1,4-Dichlorobenzene	0.0500	0.05090		mg/Kg		102	65 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.05911		mg/Kg		118	45 - 137
Dichlorodifluoromethane	0.0500	0.04554		mg/Kg		91	34 - 143
1,1-Dichloroethane	0.0500	0.04991		mg/Kg		100	59 - 130
1,2-Dichloroethane	0.0500	0.05392		mg/Kg		108	62 - 130
cis-1,2-Dichloroethene	0.0500	0.05190		mg/Kg		104	53 - 135
trans-1,2-Dichloroethene	0.0500	0.04404		mg/Kg		88	58 - 134
1,1-Dichloroethene	0.0500	0.04220		mg/Kg		84	55 - 137
1,2-Dichloropropane	0.0500	0.05662		mg/Kg		113	64 - 130
1,3-Dichloropropane	0.0500	0.05262		mg/Kg		105	67 - 130
2,2-Dichloropropane	0.0500	0.05207		mg/Kg		104	51 - 132
1,1-Dichloropropene	0.0500	0.04962		mg/Kg		99	65 - 130
cis-1,3-Dichloropropene	0.0500	0.05903		mg/Kg		118	61 - 130
trans-1,3-Dichloropropene	0.0500	0.05622		mg/Kg		112	60 - 130
Ethylbenzene	0.0500	0.05318		mg/Kg		106	70 - 130
Hexachlorobutadiene	0.0500	0.06249		mg/Kg		125	62 - 133
2-Hexanone	0.200	0.2308		mg/Kg		115	57 - 131
Iodomethane	0.0500	0.02547		mg/Kg		51	12 - 160
Isopropylbenzene	0.0500	0.05427		mg/Kg		109	70 - 130
4-Isopropyltoluene	0.0500	0.05505		mg/Kg		110	68 - 130
Methylene Chloride	0.0500	0.04725		mg/Kg		94	57 - 132
4-Methyl-2-pentanone (MIBK)	0.200	0.2437		mg/Kg		122	58 - 130
Methyl tert-butyl ether	0.0500	0.05068		mg/Kg		101	63 - 130
Naphthalene	0.0500	0.05135		mg/Kg		103	45 - 144
N-Propylbenzene	0.0500	0.05368		mg/Kg		107	67 - 130
Styrene	0.0500	0.05291		mg/Kg		106	68 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.05500		mg/Kg		110	65 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04983		mg/Kg		100	60 - 131
Tetrachloroethene	0.0500	0.05405		mg/Kg		108	67 - 130
Toluene	0.0500	0.05056		mg/Kg		101	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.05299		mg/Kg		106	58 - 135
1,2,4-Trichlorobenzene	0.0500	0.05480		mg/Kg		110	56 - 138
1,1,1-Trichloroethane	0.0500	0.05212		mg/Kg		104	63 - 130
1,1,2-Trichloroethane	0.0500	0.05059		mg/Kg		101	65 - 130

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

Lab Sample ID: LCS 400-664701/1-A
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664701

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			0.0500	0.05185		mg/Kg		104	65 - 130		
Trichlorofluoromethane			0.0500	0.04653		mg/Kg		93	61 - 136		
1,2,3-Trichloropropane			0.0500	0.05318		mg/Kg		106	60 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.04455		mg/Kg		89	47 - 143		
1,2,4-Trimethylbenzene			0.0500	0.05487		mg/Kg		110	66 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05434		mg/Kg		109	67 - 130		
Vinyl acetate			0.100	0.1015		mg/Kg		102	24 - 160		
Vinyl chloride			0.0500	0.04824		mg/Kg		96	52 - 132		
o-Xylene			0.0500	0.05409		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.0500	0.05390		mg/Kg		108	70 - 130		
Xylenes, Total			0.100	0.1080		mg/Kg		108	70 - 130		
Isopropyl ether			0.0500	0.05487		mg/Kg		110	62 - 130		
Hexane			0.0500	0.03965		mg/Kg		79	57 - 132		
n-Heptane			0.0500	0.04574		mg/Kg		91	61 - 130		
Ethyl acetate			0.100	0.1083		mg/Kg		108	21 - 160		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*67 - 130*
Dibromofluoromethane	*101*		*77 - 127*
Toluene-d8 (Surr)	*98*		*76 - 127*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 146*

Lab Sample ID: 680-247618-3 MS
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: WOTA-SS-06 (8)
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone	0.0831		0.188	0.1795		mg/Kg	☼	51	10 - 150		
Benzene	<0.000972		0.0470	0.04043		mg/Kg	☼	86	38 - 131		
Bromobenzene	<0.00189		0.0470	0.03807		mg/Kg	☼	81	28 - 134		
Chlorobromomethane	<0.00117		0.0470	0.03307		mg/Kg	☼	70	37 - 134		
Dichlorobromomethane	<0.00133		0.0470	0.04301		mg/Kg	☼	91	37 - 130		
Bromoform	<0.00189		0.0470	0.04141		mg/Kg	☼	88	24 - 136		
Bromomethane	<0.00363		0.0470	0.02538		mg/Kg	☼	54	10 - 150		
2-Butanone (MEK)	0.0108	J	0.188	0.1845		mg/Kg	☼	92	19 - 139		
n-Butylbenzene	<0.00139		0.0470	0.04336		mg/Kg	☼	92	20 - 133		
sec-Butylbenzene	<0.00138		0.0470	0.04303		mg/Kg	☼	91	22 - 135		
tert-Butylbenzene	<0.00160		0.0470	0.04558		mg/Kg	☼	97	26 - 133		
Carbon disulfide	<0.000957		0.0470	0.02842		mg/Kg	☼	60	29 - 141		
Carbon tetrachloride	<0.00247		0.0470	0.04468		mg/Kg	☼	95	36 - 134		
Chlorobenzene	<0.000754		0.0470	0.03821		mg/Kg	☼	81	37 - 130		
Chloroethane	<0.00174		0.0470	0.03628		mg/Kg	☼	77	36 - 139		
Chloroform	<0.00725		0.0470	0.04179		mg/Kg	☼	89	39 - 130		
Chloromethane	<0.00145		0.0470	0.03949		mg/Kg	☼	84	35 - 136		
2-Chlorotoluene	<0.00117		0.0470	0.04258		mg/Kg	☼	91	31 - 130		
4-Chlorotoluene	<0.00142		0.0470	0.04118		mg/Kg	☼	88	28 - 130		
Chlorodibromomethane	<0.00174		0.0470	0.04065		mg/Kg	☼	86	32 - 132		
1,2-Dibromo-3-Chloropropane	<0.00479		0.0470	0.04399		mg/Kg	☼	94	14 - 132		

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

Lab Sample ID: 680-247618-3 MS
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: WOTA-SS-06 (8)
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	<0.00145		0.0470	0.04033		mg/Kg	☼	86	35 - 130
Dibromomethane	<0.00120		0.0470	0.04117		mg/Kg	☼	88	35 - 130
1,2-Dichlorobenzene	<0.00103		0.0470	0.03587		mg/Kg	☼	76	20 - 130
1,3-Dichlorobenzene	<0.00138		0.0470	0.03720		mg/Kg	☼	79	22 - 130
1,4-Dichlorobenzene	<0.00125		0.0470	0.03623		mg/Kg	☼	77	21 - 130
trans-1,4-Dichloro-2-butene	<0.00363		0.0470	0.04795		mg/Kg	☼	102	10 - 139
Dichlorodifluoromethane	<0.00189		0.0470	0.04128		mg/Kg	☼	88	21 - 146
1,1-Dichloroethane	<0.00120		0.0470	0.04231		mg/Kg	☼	90	41 - 130
1,2-Dichloroethane	<0.00119		0.0470	0.04216		mg/Kg	☼	90	37 - 130
cis-1,2-Dichloroethene	0.0102		0.0470	0.04881		mg/Kg	☼	82	32 - 135
trans-1,2-Dichloroethene	<0.00139		0.0470	0.03725		mg/Kg	☼	79	40 - 134
1,1-Dichloroethene	<0.00123		0.0470	0.03623		mg/Kg	☼	77	39 - 138
1,2-Dichloropropane	<0.00110		0.0470	0.04190		mg/Kg	☼	89	39 - 130
1,3-Dichloropropane	<0.00145		0.0470	0.03960		mg/Kg	☼	84	39 - 130
2,2-Dichloropropane	<0.00160		0.0470	0.04446		mg/Kg	☼	95	32 - 134
1,1-Dichloropropene	<0.00120		0.0470	0.04163		mg/Kg	☼	89	38 - 136
cis-1,3-Dichloropropene	<0.00174		0.0470	0.04161		mg/Kg	☼	88	34 - 130
trans-1,3-Dichloropropene	<0.00160		0.0470	0.04094		mg/Kg	☼	87	31 - 130
Ethylbenzene	<0.000885		0.0470	0.04191		mg/Kg	☼	89	35 - 130
Hexachlorobutadiene	<0.00363		0.0470	0.04359		mg/Kg	☼	93	10 - 144
2-Hexanone	<0.00725		0.188	0.1897		mg/Kg	☼	101	20 - 142
Iodomethane	0.00845		0.0470	0.02085		mg/Kg	☼	26	10 - 150
Isopropylbenzene	<0.000986		0.0470	0.04228		mg/Kg	☼	90	31 - 132
4-Isopropyltoluene	<0.00145		0.0470	0.04231		mg/Kg	☼	90	20 - 137
Methylene Chloride	<0.0145		0.0470	0.03625		mg/Kg	☼	77	36 - 132
4-Methyl-2-pentanone (MIBK)	<0.00725		0.188	0.1997		mg/Kg	☼	106	21 - 144
Methyl tert-butyl ether	<0.00145		0.0470	0.04004		mg/Kg	☼	85	34 - 132
Naphthalene	<0.00435		0.0470	0.03928		mg/Kg	☼	84	10 - 150
N-Propylbenzene	<0.00131		0.0470	0.04251		mg/Kg	☼	90	29 - 132
Styrene	<0.00145		0.0470	0.03913		mg/Kg	☼	83	31 - 130
1,1,1,2-Tetrachloroethane	<0.00160		0.0470	0.04126		mg/Kg	☼	88	37 - 130
1,1,2,2-Tetrachloroethane	<0.00119		0.0470	0.04090		mg/Kg	☼	87	10 - 149
Tetrachloroethene	<0.00435		0.0470	0.04012		mg/Kg	☼	85	27 - 147
Toluene	<0.00145		0.0470	0.03876		mg/Kg	☼	82	42 - 130
1,2,3-Trichlorobenzene	<0.00160		0.0470	0.03570		mg/Kg	☼	76	10 - 146
1,2,4-Trichlorobenzene	<0.00133		0.0470	0.03548		mg/Kg	☼	75	10 - 141
1,1,1-Trichloroethane	<0.00160		0.0470	0.04387		mg/Kg	☼	93	41 - 130
1,1,2-Trichloroethane	<0.00113		0.0470	0.03926		mg/Kg	☼	83	37 - 130
Trichloroethene	0.00717	J	0.0470	0.04666		mg/Kg	☼	84	34 - 144
Trichlorofluoromethane	<0.00125		0.0470	0.04332		mg/Kg	☼	92	41 - 143
1,2,3-Trichloropropane	<0.00116		0.0470	0.04363		mg/Kg	☼	93	29 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00122		0.0470	0.03771		mg/Kg	☼	80	32 - 146
1,2,4-Trimethylbenzene	<0.00145		0.0470	0.04147		mg/Kg	☼	88	26 - 131
1,3,5-Trimethylbenzene	<0.00120		0.0470	0.04153		mg/Kg	☼	88	28 - 131
Vinyl acetate	<0.00276		0.0941	0.08543		mg/Kg	☼	91	10 - 150
Vinyl chloride	0.00203	J	0.0470	0.04463		mg/Kg	☼	91	35 - 136
o-Xylene	<0.00145		0.0470	0.04095		mg/Kg	☼	87	35 - 130
m-Xylene & p-Xylene	<0.00189		0.0470	0.04209		mg/Kg	☼	89	35 - 130

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

Lab Sample ID: 680-247618-3 MS
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: WOTA-SS-06 (8)
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	<0.00276		0.0941	0.08304		mg/Kg	☼	88	35 - 130
Isopropyl ether	<0.000798		0.0470	0.04616		mg/Kg	☼	98	43 - 130
Hexane	<0.00377		0.0470	0.03390		mg/Kg	☼	72	27 - 137
n-Heptane	<0.00128		0.0470	0.03661		mg/Kg	☼	78	14 - 145
Ethyl acetate	<0.00725		0.0941	0.09144		mg/Kg	☼	97	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*67 - 130*
Dibromofluoromethane	*103*		*77 - 127*
Toluene-d8 (Surr)	*94*		*76 - 127*
1,2-Dichloroethane-d4 (Surr)	*126*		*78 - 146*

Lab Sample ID: 680-247618-3 MSD
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: WOTA-SS-06 (8)
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0831		0.179	0.2145		mg/Kg	☼	73	10 - 150	18	30
Benzene	<0.000972		0.0447	0.04098		mg/Kg	☼	92	38 - 131	1	30
Bromobenzene	<0.00189		0.0447	0.03930		mg/Kg	☼	88	28 - 134	3	30
Chlorobromomethane	<0.00117		0.0447	0.03494		mg/Kg	☼	78	37 - 134	6	30
Dichlorobromomethane	<0.00133		0.0447	0.04657		mg/Kg	☼	104	37 - 130	8	30
Bromoform	<0.00189		0.0447	0.04824		mg/Kg	☼	108	24 - 136	15	30
Bromomethane	<0.00363		0.0447	0.02400		mg/Kg	☼	54	10 - 150	6	30
2-Butanone (MEK)	0.0108	J	0.179	0.2139		mg/Kg	☼	114	19 - 139	15	30
n-Butylbenzene	<0.00139		0.0447	0.04206		mg/Kg	☼	94	20 - 133	3	30
sec-Butylbenzene	<0.00138		0.0447	0.04282		mg/Kg	☼	96	22 - 135	0	30
tert-Butylbenzene	<0.00160		0.0447	0.04468		mg/Kg	☼	100	26 - 133	2	30
Carbon disulfide	<0.000957		0.0447	0.02946		mg/Kg	☼	66	29 - 141	4	30
Carbon tetrachloride	<0.00247		0.0447	0.04429		mg/Kg	☼	99	36 - 134	1	30
Chlorobenzene	<0.000754		0.0447	0.03881		mg/Kg	☼	87	37 - 130	2	30
Chloroethane	<0.00174		0.0447	0.02681		mg/Kg	☼	60	36 - 139	30	30
Chloroform	<0.00725		0.0447	0.04310		mg/Kg	☼	96	39 - 130	3	30
Chloromethane	<0.00145		0.0447	0.04158		mg/Kg	☼	93	35 - 136	5	30
2-Chlorotoluene	<0.00117		0.0447	0.04140		mg/Kg	☼	93	31 - 130	3	30
4-Chlorotoluene	<0.00142		0.0447	0.04017		mg/Kg	☼	90	28 - 130	3	30
Chlorodibromomethane	<0.00174		0.0447	0.04514		mg/Kg	☼	101	32 - 132	10	30
1,2-Dibromo-3-Chloropropane	<0.00479		0.0447	0.05272		mg/Kg	☼	118	14 - 132	18	30
Ethylene Dibromide	<0.00145		0.0447	0.04491		mg/Kg	☼	100	35 - 130	11	30
Dibromomethane	<0.00120		0.0447	0.04535		mg/Kg	☼	101	35 - 130	10	30
1,2-Dichlorobenzene	<0.00103		0.0447	0.03638		mg/Kg	☼	81	20 - 130	1	30
1,3-Dichlorobenzene	<0.00138		0.0447	0.03660		mg/Kg	☼	82	22 - 130	2	30
1,4-Dichlorobenzene	<0.00125		0.0447	0.03537		mg/Kg	☼	79	21 - 130	2	30
trans-1,4-Dichloro-2-butene	<0.00363		0.0447	0.05477		mg/Kg	☼	122	10 - 139	13	30
Dichlorodifluoromethane	<0.00189		0.0447	0.03974		mg/Kg	☼	89	21 - 146	4	30
1,1-Dichloroethane	<0.00120		0.0447	0.04391		mg/Kg	☼	98	41 - 130	4	30
1,2-Dichloroethane	<0.00119		0.0447	0.04609		mg/Kg	☼	103	37 - 130	9	30
cis-1,2-Dichloroethene	0.0102		0.0447	0.04613		mg/Kg	☼	80	32 - 135	6	30

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

Lab Sample ID: 680-247618-3 MSD
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: WOTA-SS-06 (8)
Prep Type: Total/NA
Prep Batch: 664701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	<0.00139		0.0447	0.03744		mg/Kg	☼	84	40 - 134	1	30
1,1-Dichloroethene	<0.00123		0.0447	0.03643		mg/Kg	☼	81	39 - 138	1	30
1,2-Dichloropropane	<0.00110		0.0447	0.04470		mg/Kg	☼	100	39 - 130	6	30
1,3-Dichloropropane	<0.00145		0.0447	0.04430		mg/Kg	☼	99	39 - 130	11	30
2,2-Dichloropropane	<0.00160		0.0447	0.04537		mg/Kg	☼	101	32 - 134	2	30
1,1-Dichloropropene	<0.00120		0.0447	0.04184		mg/Kg	☼	94	38 - 136	0	30
cis-1,3-Dichloropropene	<0.00174		0.0447	0.04556		mg/Kg	☼	102	34 - 130	9	30
trans-1,3-Dichloropropene	<0.00160		0.0447	0.04539		mg/Kg	☼	101	31 - 130	10	30
Ethylbenzene	<0.000885		0.0447	0.04155		mg/Kg	☼	93	35 - 130	1	30
Hexachlorobutadiene	<0.00363		0.0447	0.04534		mg/Kg	☼	101	10 - 144	4	30
2-Hexanone	<0.00725		0.179	0.2273		mg/Kg	☼	127	20 - 142	18	30
Iodomethane	0.00845		0.0447	0.02452		mg/Kg	☼	36	10 - 150	16	30
Isopropylbenzene	<0.000986		0.0447	0.04271		mg/Kg	☼	95	31 - 132	1	30
4-Isopropyltoluene	<0.00145		0.0447	0.04188		mg/Kg	☼	94	20 - 137	1	30
Methylene Chloride	<0.0145		0.0447	0.03768		mg/Kg	☼	84	36 - 132	4	30
4-Methyl-2-pentanone (MIBK)	<0.00725		0.179	0.2359		mg/Kg	☼	132	21 - 144	17	30
Methyl tert-butyl ether	<0.00145		0.0447	0.04520		mg/Kg	☼	101	34 - 132	12	30
Naphthalene	<0.00435		0.0447	0.04534		mg/Kg	☼	101	10 - 150	14	30
N-Propylbenzene	<0.00131		0.0447	0.04169		mg/Kg	☼	93	29 - 132	2	30
Styrene	<0.00145		0.0447	0.03950		mg/Kg	☼	88	31 - 130	1	30
1,1,1,2-Tetrachloroethane	<0.00160		0.0447	0.04351		mg/Kg	☼	97	37 - 130	5	30
1,1,2,2-Tetrachloroethane	<0.00119		0.0447	0.04720		mg/Kg	☼	106	10 - 149	14	30
Tetrachloroethene	<0.00435		0.0447	0.03834		mg/Kg	☼	86	27 - 147	5	30
Toluene	<0.00145		0.0447	0.03941		mg/Kg	☼	88	42 - 130	2	30
1,2,3-Trichlorobenzene	<0.00160		0.0447	0.03660		mg/Kg	☼	82	10 - 146	2	30
1,2,4-Trichlorobenzene	<0.00133		0.0447	0.03453		mg/Kg	☼	77	10 - 141	3	30
1,1,1-Trichloroethane	<0.00160		0.0447	0.04370		mg/Kg	☼	98	41 - 130	0	30
1,1,2-Trichloroethane	<0.00113		0.0447	0.04355		mg/Kg	☼	97	37 - 130	10	30
Trichloroethene	0.00717	J	0.0447	0.04366		mg/Kg	☼	82	34 - 144	7	30
Trichlorofluoromethane	<0.00125		0.0447	0.04004		mg/Kg	☼	90	41 - 143	8	30
1,2,3-Trichloropropane	<0.00116		0.0447	0.04997		mg/Kg	☼	112	29 - 133	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00122		0.0447	0.03769		mg/Kg	☼	84	32 - 146	0	30
1,2,4-Trimethylbenzene	<0.00145		0.0447	0.04047		mg/Kg	☼	90	26 - 131	2	30
1,3,5-Trimethylbenzene	<0.00120		0.0447	0.04156		mg/Kg	☼	93	28 - 131	0	30
Vinyl acetate	<0.00276		0.0895	0.09265		mg/Kg	☼	104	10 - 150	8	30
Vinyl chloride	0.00203	J	0.0447	0.04228		mg/Kg	☼	90	35 - 136	5	30
o-Xylene	<0.00145		0.0447	0.04203		mg/Kg	☼	94	35 - 130	3	30
m-Xylene & p-Xylene	<0.00189		0.0447	0.04177		mg/Kg	☼	93	35 - 130	1	30
Xylenes, Total	<0.00276		0.0895	0.08380		mg/Kg	☼	94	35 - 130	1	30
Isopropyl ether	<0.000798		0.0447	0.04772		mg/Kg	☼	107	43 - 130	3	30
Hexane	<0.00377		0.0447	0.03516		mg/Kg	☼	79	27 - 137	4	30
n-Heptane	<0.00128		0.0447	0.03808		mg/Kg	☼	85	14 - 145	4	30
Ethyl acetate	<0.00725		0.0895	0.1063		mg/Kg	☼	119	10 - 150	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
Dibromofluoromethane	*105*		*77 - 127*

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

Lab Sample ID: 680-247618-3 MSD
Matrix: Solid
Analysis Batch: 664697

Client Sample ID: WOTA-SS-06 (8)
Prep Type: Total/NA
Prep Batch: 664701

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*76 - 127*
1,2-Dichloroethane-d4 (Surr)	*127*		*78 - 146*

Lab Sample ID: MB 680-826226/10
Matrix: Water
Analysis Batch: 826226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 12:35	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 12:35	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 12:35	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 12:35	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 12:35	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 12:35	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 12:35	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 12:35	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 12:35	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/07/24 12:35	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 12:35	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 12:35	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/07/24 12:35	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 12:35	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 12:35	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 12:35	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 12:35	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 12:35	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 12:35	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 12:35	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 12:35	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 12:35	1

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

Lab Sample ID: MB 680-826226/10
Matrix: Water
Analysis Batch: 826226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 12:35	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 12:35	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 12:35	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 12:35	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 12:35	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 12:35	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 12:35	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 12:35	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 12:35	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 12:35	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 12:35	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 12:35	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 12:35	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 12:35	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 12:35	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 12:35	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 12:35	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 12:35	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 12:35	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 12:35	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/07/24 12:35	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/07/24 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/07/24 12:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/07/24 12:35*	*1*

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			250	222.3		ug/L		89	67 - 120		
Benzene			50.0	54.44		ug/L		109	70 - 130		

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

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	57.98		ug/L		116	70 - 130
Bromoform	50.0	43.09		ug/L		86	69 - 129
Bromomethane	50.0	60.78		ug/L		122	28 - 192
2-Butanone (MEK)	250	207.2		ug/L		83	69 - 120
Chlorobromomethane	50.0	54.33		ug/L		109	70 - 130
Carbon disulfide	50.0	58.73		ug/L		117	70 - 130
Carbon tetrachloride	50.0	48.67		ug/L		97	70 - 130
Chlorobenzene	50.0	53.01		ug/L		106	70 - 130
Chloroethane	50.0	67.95		ug/L		136	31 - 213
Chloroform	50.0	49.71		ug/L		99	70 - 130
Chloromethane	50.0	64.15	*+	ug/L		128	59 - 127
2-Chlorotoluene	50.0	59.37		ug/L		119	70 - 130
4-Chlorotoluene	50.0	60.16		ug/L		120	70 - 130
Chlorodibromomethane	50.0	47.58		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	31.91	*-	ug/L		64	70 - 130
Dibromomethane	50.0	50.63		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	50.50		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	53.99		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	53.71		ug/L		107	70 - 130
Dichlorobromomethane	50.0	48.09		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	60.58		ug/L		121	70 - 130
1,1-Dichloroethane	50.0	54.54		ug/L		109	70 - 130
1,2-Dichloroethane	50.0	46.81		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	52.58		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	56.88		ug/L		114	70 - 130
1,2-Dichloropropane	50.0	54.35		ug/L		109	70 - 130
1,3-Dichloropropane	50.0	55.46		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	50.46		ug/L		101	70 - 130
1,1-Dichloropropene	50.0	55.08		ug/L		110	70 - 130
cis-1,3-Dichloropropene	50.0	52.14		ug/L		104	70 - 130
Ethylene Dibromide	50.0	54.99		ug/L		110	70 - 130
Ethylbenzene	50.0	52.80		ug/L		106	70 - 130
Hexachlorobutadiene	50.0	48.72		ug/L		97	70 - 130
2-Hexanone	250	223.8		ug/L		90	70 - 130
Iodomethane	50.0	54.46		ug/L		109	52 - 129
Isopropylbenzene	50.0	58.83		ug/L		118	70 - 130
4-Isopropyltoluene	50.0	55.99		ug/L		112	70 - 130
Methylene Chloride	50.0	51.36		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	250	238.3		ug/L		95	68 - 120
Methyl tert-butyl ether	50.0	46.49		ug/L		93	70 - 130
Naphthalene	50.0	44.30		ug/L		89	57 - 149
n-Butylbenzene	50.0	55.63		ug/L		111	70 - 130
N-Propylbenzene	50.0	58.31		ug/L		117	70 - 130
sec-Butylbenzene	50.0	57.22		ug/L		114	70 - 130
Styrene	50.0	59.39		ug/L		119	70 - 130
tert-Butylbenzene	50.0	56.30		ug/L		113	70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.97		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.19		ug/L		94	70 - 130
Tetrachloroethene	50.0	51.07		ug/L		102	70 - 130

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

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	50.0	52.51		ug/L		105	70 - 130
trans-1,4-Dichloro-2-butene	50.0	39.29		ug/L		79	67 - 120
trans-1,2-Dichloroethene	50.0	54.14		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	51.98		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	50.0	46.68		ug/L		93	61 - 141
1,2,4-Trichlorobenzene	50.0	49.24		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	46.52		ug/L		93	70 - 130
o-Xylene	50.0	54.50		ug/L		109	70 - 130
1,1,2-Trichloroethane	50.0	56.38		ug/L		113	70 - 130
m-Xylene & p-Xylene	50.0	52.91		ug/L		106	70 - 130
Trichloroethene	50.0	52.44		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	88.88	*+	ug/L		178	63 - 142
1,2,3-Trichloropropane	50.0	47.80		ug/L		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.78		ug/L		110	63 - 141
1,2,4-Trimethylbenzene	50.0	59.69		ug/L		119	70 - 130
Hexane	50.0	60.59		ug/L		121	70 - 130
1,3,5-Trimethylbenzene	50.0	59.29		ug/L		119	70 - 130
n-Heptane	50.0	59.47		ug/L		119	65 - 120
Vinyl acetate	100	76.96		ug/L		77	67 - 135
Vinyl chloride	50.0	58.02		ug/L		116	66 - 129
Xylenes, Total	100	107.4		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
Acetone	250	233.3		ug/L		93	67 - 120	5	30
Benzene	50.0	54.44		ug/L		109	70 - 130	0	30
Bromobenzene	50.0	58.81		ug/L		118	70 - 130	1	30
Bromoform	50.0	44.96		ug/L		90	69 - 129	4	30
Bromomethane	50.0	60.16		ug/L		120	28 - 192	1	30
2-Butanone (MEK)	250	214.2		ug/L		86	69 - 120	3	30
Chlorobromomethane	50.0	54.32		ug/L		109	70 - 130	0	30
Carbon disulfide	50.0	57.86		ug/L		116	70 - 130	1	30
Carbon tetrachloride	50.0	49.28		ug/L		99	70 - 130	1	30
Chlorobenzene	50.0	53.00		ug/L		106	70 - 130	0	30
Chloroethane	50.0	66.75		ug/L		134	31 - 213	2	30
Chloroform	50.0	49.41		ug/L		99	70 - 130	1	30
Chloromethane	50.0	64.80	*+	ug/L		130	59 - 127	1	30
2-Chlorotoluene	50.0	59.72		ug/L		119	70 - 130	1	30
4-Chlorotoluene	50.0	60.35		ug/L		121	70 - 130	0	30

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

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
Chlorodibromomethane	50.0	48.63		ug/L		97	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	33.22	*-	ug/L		66	70 - 130	4	30
Dibromomethane	50.0	51.52		ug/L		103	70 - 130	2	30
1,2-Dichlorobenzene	50.0	50.96		ug/L		102	70 - 130	1	30
1,3-Dichlorobenzene	50.0	54.70		ug/L		109	70 - 130	1	30
1,4-Dichlorobenzene	50.0	53.67		ug/L		107	70 - 130	0	30
Dichlorobromomethane	50.0	48.43		ug/L		97	70 - 130	1	30
Dichlorodifluoromethane	50.0	60.83		ug/L		122	70 - 130	0	40
1,1-Dichloroethane	50.0	53.89		ug/L		108	70 - 130	1	30
1,2-Dichloroethane	50.0	47.30		ug/L		95	70 - 130	1	50
cis-1,2-Dichloroethene	50.0	51.77		ug/L		104	70 - 130	2	30
1,1-Dichloroethene	50.0	55.88		ug/L		112	70 - 130	2	20
1,2-Dichloropropane	50.0	54.38		ug/L		109	70 - 130	0	20
1,3-Dichloropropane	50.0	56.67		ug/L		113	70 - 130	2	20
2,2-Dichloropropane	50.0	49.32		ug/L		99	70 - 130	2	20
1,1-Dichloropropene	50.0	54.45		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene	50.0	53.23		ug/L		106	70 - 130	2	20
Ethylene Dibromide	50.0	57.01		ug/L		114	70 - 130	4	30
Ethylbenzene	50.0	52.13		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	50.0	48.73		ug/L		97	70 - 130	0	20
2-Hexanone	250	232.2		ug/L		93	70 - 130	4	20
Iodomethane	50.0	53.03		ug/L		106	52 - 129	3	30
Isopropylbenzene	50.0	58.55		ug/L		117	70 - 130	0	30
4-Isopropyltoluene	50.0	56.12		ug/L		112	70 - 130	0	30
Methylene Chloride	50.0	50.39		ug/L		101	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	250	248.5		ug/L		99	68 - 120	4	30
Methyl tert-butyl ether	50.0	47.68		ug/L		95	70 - 130	3	30
Naphthalene	50.0	45.40		ug/L		91	57 - 149	2	30
n-Butylbenzene	50.0	55.50		ug/L		111	70 - 130	0	30
N-Propylbenzene	50.0	57.31		ug/L		115	70 - 130	2	30
sec-Butylbenzene	50.0	56.83		ug/L		114	70 - 130	1	30
Styrene	50.0	59.57		ug/L		119	70 - 130	0	30
tert-Butylbenzene	50.0	56.09		ug/L		112	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	46.91		ug/L		94	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	48.25		ug/L		96	70 - 130	2	30
Tetrachloroethene	50.0	50.22		ug/L		100	70 - 130	2	30
Toluene	50.0	52.29		ug/L		105	70 - 130	0	30
trans-1,4-Dichloro-2-butene	50.0	41.60		ug/L		83	67 - 120	6	30
trans-1,2-Dichloroethene	50.0	53.70		ug/L		107	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	52.45		ug/L		105	70 - 130	1	30
1,2,3-Trichlorobenzene	50.0	46.83		ug/L		94	61 - 141	0	30
1,2,4-Trichlorobenzene	50.0	48.87		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane	50.0	46.09		ug/L		92	70 - 130	1	30
o-Xylene	50.0	54.20		ug/L		108	70 - 130	1	30
1,1,2-Trichloroethane	50.0	57.92		ug/L		116	70 - 130	3	30
m-Xylene & p-Xylene	50.0	52.30		ug/L		105	70 - 130	1	30
Trichloroethene	50.0	52.14		ug/L		104	70 - 130	1	30
Trichlorofluoromethane	50.0	88.06	*+	ug/L		176	63 - 142	1	30
1,2,3-Trichloropropane	50.0	48.97		ug/L		98	70 - 130	2	30

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

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.75		ug/L		107	63 - 141	2	30
1,2,4-Trimethylbenzene			50.0	60.23		ug/L		120	70 - 130	1	30
Hexane			50.0	59.55		ug/L		119	70 - 130	2	30
1,3,5-Trimethylbenzene			50.0	60.57		ug/L		121	70 - 130	2	30
n-Heptane			50.0	58.75		ug/L		117	65 - 120	1	30
Vinyl acetate			100	72.88		ug/L		73	67 - 135	5	30
Vinyl chloride			50.0	70.41	*+	ug/L		141	66 - 129	19	30
Xylenes, Total			100	106.5		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 680-827726/10
Matrix: Solid
Analysis Batch: 827726

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.01451	J	0.0500	0.0110	mg/Kg			03/15/24 13:59	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/15/24 13:59	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/15/24 13:59	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/15/24 13:59	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/15/24 13:59	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/15/24 13:59	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/15/24 13:59	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/15/24 13:59	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/15/24 13:59	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

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

Lab Sample ID: MB 680-827726/10
Matrix: Solid
Analysis Batch: 827726

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/15/24 13:59	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/15/24 13:59	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/15/24 13:59	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/15/24 13:59	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/15/24 13:59	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/15/24 13:59	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/15/24 13:59	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/15/24 13:59	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/15/24 13:59	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/15/24 13:59	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/15/24 13:59	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/15/24 13:59	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/15/24 13:59	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/15/24 13:59	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/15/24 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/15/24 13:59	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/15/24 13:59	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/15/24 13:59	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/15/24 13:59	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/15/24 13:59	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/15/24 13:59	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/15/24 13:59	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/15/24 13:59	1

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

Lab Sample ID: MB 680-827726/10
Matrix: Solid
Analysis Batch: 827726

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*124*		*65 - 130*		*03/15/24 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*65 - 130*		*03/15/24 13:59*	*1*
Dibromofluoromethane (Surr)	*120*		*65 - 130*		*03/15/24 13:59*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*		*03/15/24 13:59*	*1*

Lab Sample ID: LCS 680-827726/5
Matrix: Solid
Analysis Batch: 827726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2765		mg/Kg		111	10 - 150
Benzene	0.0500	0.05224		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.04611		mg/Kg		92	70 - 130
Bromoform	0.0500	0.04188		mg/Kg		84	68 - 130
Bromomethane	0.0500	0.06601	*+	mg/Kg		132	70 - 130
2-Butanone (MEK)	0.250	0.2827		mg/Kg		113	40 - 150
Chlorobromomethane	0.0500	0.05313		mg/Kg		106	66 - 130
Carbon disulfide	0.0500	0.05702		mg/Kg		114	70 - 130
Carbon tetrachloride	0.0500	0.05492		mg/Kg		110	70 - 130
Chlorobenzene	0.0500	0.04827		mg/Kg		97	70 - 130
Chloroethane	0.0500	0.05735		mg/Kg		115	70 - 130
Chloroform	0.0500	0.05076		mg/Kg		102	70 - 130
Chloromethane	0.0500	0.05153		mg/Kg		103	70 - 130
2-Chlorotoluene	0.0500	0.04729		mg/Kg		95	70 - 130
4-Chlorotoluene	0.0500	0.04857		mg/Kg		97	70 - 130
Chlorodibromomethane	0.0500	0.04767		mg/Kg		95	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04156		mg/Kg		83	42 - 145
Dibromomethane	0.0500	0.05161		mg/Kg		103	59 - 142
1,2-Dichlorobenzene	0.0500	0.04899		mg/Kg		98	70 - 130
1,3-Dichlorobenzene	0.0500	0.04979		mg/Kg		100	70 - 130
1,4-Dichlorobenzene	0.0500	0.04992		mg/Kg		100	70 - 130
Dichlorobromomethane	0.0500	0.04975		mg/Kg		100	70 - 130
Dichlorodifluoromethane	0.0500	0.05821		mg/Kg		116	43 - 131
1,1-Dichloroethane	0.0500	0.05321		mg/Kg		106	70 - 130
1,2-Dichloroethane	0.0500	0.05586		mg/Kg		112	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04860		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.05422		mg/Kg		108	69 - 130
1,2-Dichloropropane	0.0500	0.05033		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0500	0.05031		mg/Kg		101	54 - 150
2,2-Dichloropropane	0.0500	0.05500		mg/Kg		110	70 - 130
1,1-Dichloropropene	0.0500	0.05221		mg/Kg		104	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04910		mg/Kg		98	70 - 130
Ethylene Dibromide	0.0500	0.04843		mg/Kg		97	48 - 150
Ethylbenzene	0.0500	0.05015		mg/Kg		100	70 - 130
Hexachlorobutadiene	0.0500	0.04888		mg/Kg		98	70 - 130
2-Hexanone	0.250	0.2695		mg/Kg		108	30 - 150
Iodomethane	0.0500	0.05837		mg/Kg		117	65 - 138
Isopropylbenzene	0.0500	0.05061		mg/Kg		101	70 - 130

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

Lab Sample ID: LCS 680-827726/5
Matrix: Solid
Analysis Batch: 827726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Isopropyltoluene	0.0500	0.05370		mg/Kg		107	70 - 130
Methylene Chloride	0.0500	0.05377		mg/Kg		108	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2648		mg/Kg		106	34 - 150
Methyl tert-butyl ether	0.0500	0.05089		mg/Kg		102	70 - 130
Naphthalene	0.0500	0.04254		mg/Kg		85	46 - 150
n-Butylbenzene	0.0500	0.05521		mg/Kg		110	70 - 130
N-Propylbenzene	0.0500	0.05036		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0500	0.05168		mg/Kg		103	69 - 142
Styrene	0.0500	0.04820		mg/Kg		96	70 - 130
tert-Butylbenzene	0.0500	0.05050		mg/Kg		101	67 - 145
1,1,1,2-Tetrachloroethane	0.0500	0.04476		mg/Kg		90	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04932		mg/Kg		99	64 - 130
Tetrachloroethene	0.0500	0.04872		mg/Kg		97	70 - 130
Toluene	0.0500	0.04945		mg/Kg		99	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04834		mg/Kg		97	54 - 150
trans-1,2-Dichloroethene	0.0500	0.04669		mg/Kg		93	67 - 130
trans-1,3-Dichloropropene	0.0500	0.05082		mg/Kg		102	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04471		mg/Kg		89	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04412		mg/Kg		88	70 - 130
1,1,1-Trichloroethane	0.0500	0.05497		mg/Kg		110	70 - 130
o-Xylene	0.0500	0.04991		mg/Kg		100	70 - 130
1,1,2-Trichloroethane	0.0500	0.04961		mg/Kg		99	56 - 146
m-Xylene & p-Xylene	0.0500	0.04813		mg/Kg		96	70 - 130
Trichloroethene	0.0500	0.04553		mg/Kg		91	70 - 130
Trichlorofluoromethane	0.0500	0.05544		mg/Kg		111	70 - 130
1,2,3-Trichloropropane	0.0500	0.04817		mg/Kg		96	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05321		mg/Kg		106	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05110		mg/Kg		102	70 - 130
Hexane	0.0500	0.05387		mg/Kg		108	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05112		mg/Kg		102	70 - 130
n-Heptane	0.0500	0.05363		mg/Kg		107	70 - 130
Vinyl acetate	0.100	0.1388		mg/Kg		139	53 - 150
Vinyl chloride	0.0500	0.05226		mg/Kg		105	70 - 130
Xylenes, Total	0.100	0.09804		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*102*		*65 - 130*

Lab Sample ID: LCSD 680-827726/6
Matrix: Solid
Analysis Batch: 827726

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
Acetone	0.250	0.2911		mg/Kg		116	10 - 150	5	50
Benzene	0.0500	0.05505		mg/Kg		110	70 - 130	5	30

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

Lab Sample ID: LCSD 680-827726/6
Matrix: Solid
Analysis Batch: 827726

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
Bromobenzene	0.0500	0.05343		mg/Kg		107	70 - 130	15	30
Bromoform	0.0500	0.04653		mg/Kg		93	68 - 130	11	30
Bromomethane	0.0500	0.06373		mg/Kg		127	70 - 130	4	30
2-Butanone (MEK)	0.250	0.2920		mg/Kg		117	40 - 150	3	30
Chlorobromomethane	0.0500	0.05469		mg/Kg		109	66 - 130	3	30
Carbon disulfide	0.0500	0.05891		mg/Kg		118	70 - 130	3	30
Carbon tetrachloride	0.0500	0.05762		mg/Kg		115	70 - 130	5	30
Chlorobenzene	0.0500	0.05260		mg/Kg		105	70 - 130	9	30
Chloroethane	0.0500	0.05707		mg/Kg		114	70 - 130	0	30
Chloroform	0.0500	0.05344		mg/Kg		107	70 - 130	5	30
Chloromethane	0.0500	0.04623		mg/Kg		92	70 - 130	11	30
2-Chlorotoluene	0.0500	0.05442		mg/Kg		109	70 - 130	14	30
4-Chlorotoluene	0.0500	0.05444		mg/Kg		109	70 - 130	11	30
Chlorodibromomethane	0.0500	0.05113		mg/Kg		102	64 - 133	7	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04257		mg/Kg		85	42 - 145	2	30
Dibromomethane	0.0500	0.05350		mg/Kg		107	59 - 142	4	30
1,2-Dichlorobenzene	0.0500	0.05273		mg/Kg		105	70 - 130	7	30
1,3-Dichlorobenzene	0.0500	0.05331		mg/Kg		107	70 - 130	7	30
1,4-Dichlorobenzene	0.0500	0.05366		mg/Kg		107	70 - 130	7	30
Dichlorobromomethane	0.0500	0.05304		mg/Kg		106	70 - 130	6	30
Dichlorodifluoromethane	0.0500	0.05784		mg/Kg		116	43 - 131	1	30
1,1-Dichloroethane	0.0500	0.05571		mg/Kg		111	70 - 130	5	30
1,2-Dichloroethane	0.0500	0.05674		mg/Kg		113	68 - 139	2	30
cis-1,2-Dichloroethene	0.0500	0.05154		mg/Kg		103	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.05683		mg/Kg		114	69 - 130	5	50
1,2-Dichloropropane	0.0500	0.05274		mg/Kg		105	70 - 130	5	30
1,3-Dichloropropane	0.0500	0.05313		mg/Kg		106	54 - 150	5	30
2,2-Dichloropropane	0.0500	0.05686		mg/Kg		114	70 - 130	3	30
1,1-Dichloropropene	0.0500	0.05417		mg/Kg		108	70 - 130	4	30
cis-1,3-Dichloropropene	0.0500	0.05277		mg/Kg		106	70 - 130	7	30
Ethylene Dibromide	0.0500	0.05271		mg/Kg		105	48 - 150	8	30
Ethylbenzene	0.0500	0.05396		mg/Kg		108	70 - 130	7	30
Hexachlorobutadiene	0.0500	0.05369		mg/Kg		107	70 - 130	9	30
2-Hexanone	0.250	0.2752		mg/Kg		110	30 - 150	2	30
Iodomethane	0.0500	0.06352		mg/Kg		127	65 - 138	8	30
Isopropylbenzene	0.0500	0.05570		mg/Kg		111	70 - 130	10	30
4-Isopropyltoluene	0.0500	0.05745		mg/Kg		115	70 - 130	7	30
Methylene Chloride	0.0500	0.05552		mg/Kg		111	54 - 149	3	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2699		mg/Kg		108	34 - 150	2	30
Methyl tert-butyl ether	0.0500	0.05422		mg/Kg		108	70 - 130	6	30
Naphthalene	0.0500	0.04469		mg/Kg		89	46 - 150	5	30
n-Butylbenzene	0.0500	0.05978		mg/Kg		120	70 - 130	8	30
N-Propylbenzene	0.0500	0.05546		mg/Kg		111	70 - 130	10	30
sec-Butylbenzene	0.0500	0.05700		mg/Kg		114	69 - 142	10	30
Styrene	0.0500	0.05427		mg/Kg		109	70 - 130	12	30
tert-Butylbenzene	0.0500	0.05560		mg/Kg		111	67 - 145	10	30
1,1,1,2-Tetrachloroethane	0.0500	0.05021		mg/Kg		100	70 - 130	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.05109		mg/Kg		102	64 - 130	4	30
Tetrachloroethene	0.0500	0.05274		mg/Kg		105	70 - 130	8	30

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

Lab Sample ID: LCSD 680-827726/6
Matrix: Solid
Analysis Batch: 827726

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
Toluene	0.0500	0.05315		mg/Kg		106	70 - 130	7	30
trans-1,4-Dichloro-2-butene	0.0500	0.05095		mg/Kg		102	54 - 150	5	30
trans-1,2-Dichloroethene	0.0500	0.04859		mg/Kg		97	67 - 130	4	30
trans-1,3-Dichloropropene	0.0500	0.05358		mg/Kg		107	54 - 150	5	30
1,2,3-Trichlorobenzene	0.0500	0.04878		mg/Kg		98	70 - 130	9	30
1,2,4-Trichlorobenzene	0.0500	0.04898		mg/Kg		98	70 - 130	10	30
1,1,1-Trichloroethane	0.0500	0.05708		mg/Kg		114	70 - 130	4	30
o-Xylene	0.0500	0.05481		mg/Kg		110	70 - 130	9	30
1,1,2-Trichloroethane	0.0500	0.05285		mg/Kg		106	56 - 146	6	30
m-Xylene & p-Xylene	0.0500	0.05461		mg/Kg		109	70 - 130	13	30
Trichloroethene	0.0500	0.05068		mg/Kg		101	70 - 130	11	30
Trichlorofluoromethane	0.0500	0.05687		mg/Kg		114	70 - 130	3	30
1,2,3-Trichloropropane	0.0500	0.04925		mg/Kg		98	64 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05603		mg/Kg		112	70 - 130	5	40
1,2,4-Trimethylbenzene	0.0500	0.05694		mg/Kg		114	70 - 130	11	30
Hexane	0.0500	0.05651		mg/Kg		113	70 - 130	5	30
1,3,5-Trimethylbenzene	0.0500	0.05735		mg/Kg		115	70 - 130	11	30
n-Heptane	0.0500	0.05555		mg/Kg		111	70 - 130	4	30
Vinyl acetate	0.100	0.1396		mg/Kg		140	53 - 150	1	30
Vinyl chloride	0.0500	0.05218		mg/Kg		104	70 - 130	0	30
Xylenes, Total	0.100	0.1094		mg/Kg		109	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 130*
Dibromofluoromethane (Surr)	*103*		*65 - 130*
4-Bromofluorobenzene (Surr)	*104*		*65 - 130*

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

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Acenaphthylene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Acetophenone	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Anthracene	<0.0244		0.322	0.0244	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Atrazine	<0.0224		0.322	0.0224	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzaldehyde	<0.0566		0.322	0.0566	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[a]anthracene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[a]pyrene	<0.0507		0.322	0.0507	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[b]fluoranthene	<0.0371		0.322	0.0371	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[g,h,i]perylene	<0.0215		0.322	0.0215	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[k]fluoranthene	<0.0634		0.322	0.0634	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-chloroethoxy)methane	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

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

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.0439		0.322	0.0439	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
bis (2-chloroisopropyl) ether	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-ethylhexyl) phthalate	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Bromophenyl phenyl ether	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Butyl benzyl phthalate	<0.0254		0.322	0.0254	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Caprolactam	<0.0644		0.322	0.0644	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Carbazole	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chloroaniline	<0.0507		0.644	0.0507	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chloro-3-methylphenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Chloronaphthalene	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Chlorophenol	<0.0390		0.322	0.0390	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chlorophenyl phenyl ether	<0.0429		0.322	0.0429	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Chrysene	<0.0205		0.322	0.0205	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dibenz(a,h)anthracene	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dibenzofuran	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3,3'-Dichlorobenzidine	<0.0273		0.644	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Diethyl phthalate	<0.0361		0.322	0.0361	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dimethylphenol	<0.0429		0.322	0.0429	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dimethyl phthalate	<0.0332		0.322	0.0332	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Di-n-butyl phthalate	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dinitrophenol	<0.810		1.66	0.810	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dinitrotoluene	<0.0478		0.322	0.0478	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,6-Dinitrotoluene	<0.0410		0.322	0.0410	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Di-n-octyl phthalate	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Fluoranthene	<0.0312		0.322	0.0312	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Fluorene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorobenzene	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorobutadiene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorocyclopentadiene	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachloroethane	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Indeno[1,2,3-cd]pyrene	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Isophorone	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Methylnaphthalene	<0.0371		0.322	0.0371	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Methylphenol	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3 & 4 Methylphenol	<0.0420		0.322	0.0420	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Naphthalene	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Nitroaniline	<0.0439		1.66	0.0439	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3-Nitroaniline	<0.0449		1.66	0.0449	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Nitroaniline	<0.0478		1.66	0.0478	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Nitrobenzene	<0.0254		0.322	0.0254	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Nitrophenol	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Nitrophenol	<0.322		1.66	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
N-Nitrosodi-n-propylamine	<0.0312		0.322	0.0312	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
N-Nitrosodiphenylamine	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pentachlorophenol	<0.322		1.66	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Phenanthrene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Phenol	<0.0332		0.322	0.0332	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

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

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pyridine	<0.322		0.644	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4,5-Trichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4,6-Trichlorophenol	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
2-Fluorophenol (Surr)	*54*		*18 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Nitrobenzene-d5 (Surr)	*58*		*19 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Phenol-d5 (Surr)	*56*		*21 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*21 - 132*	*03/11/24 10:45*	*03/11/24 18:42*	*1*

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.44	5.082		mg/Kg		79	33 - 130
Acenaphthylene	6.44	4.805		mg/Kg		75	34 - 130
Acetophenone	6.44	4.376		mg/Kg		68	28 - 130
Anthracene	6.44	5.174		mg/Kg		80	39 - 130
Atrazine	6.44	5.132		mg/Kg		80	27 - 130
Benzaldehyde	6.44	1.352		mg/Kg		21	10 - 130
Benzo[a]anthracene	6.44	5.280		mg/Kg		82	40 - 130
Benzo[a]pyrene	6.44	5.362		mg/Kg		83	37 - 131
Benzo[b]fluoranthene	6.44	5.315		mg/Kg		83	35 - 130
Benzo[g,h,i]perylene	6.44	5.562		mg/Kg		86	39 - 130
Benzo[k]fluoranthene	6.44	5.441		mg/Kg		84	35 - 130
1,1'-Biphenyl	6.44	4.745		mg/Kg		74	32 - 130
Bis(2-chloroethoxy)methane	6.44	4.384		mg/Kg		68	29 - 130
Bis(2-chloroethyl)ether	6.44	4.017		mg/Kg		62	18 - 130
bis (2-chloroisopropyl) ether	6.44	3.762		mg/Kg		58	12 - 130
Bis(2-ethylhexyl) phthalate	6.44	5.211		mg/Kg		81	39 - 130
4-Bromophenyl phenyl ether	6.44	4.801		mg/Kg		75	32 - 130
Butyl benzyl phthalate	6.44	5.360		mg/Kg		83	38 - 130
Caprolactam	6.44	5.068		mg/Kg		79	27 - 148
Carbazole	6.44	5.322		mg/Kg		83	43 - 130
4-Chloroaniline	6.44	4.125		mg/Kg		64	10 - 130
4-Chloro-3-methylphenol	6.44	4.967		mg/Kg		77	31 - 130
2-Chloronaphthalene	6.44	4.681		mg/Kg		73	30 - 130
2-Chlorophenol	6.44	4.247		mg/Kg		66	28 - 130
4-Chlorophenyl phenyl ether	6.44	4.963		mg/Kg		77	32 - 130
Chrysene	6.44	5.235		mg/Kg		81	40 - 130
Dibenz(a,h)anthracene	6.44	5.450		mg/Kg		85	37 - 130
Dibenzofuran	6.44	4.749		mg/Kg		74	34 - 130
3,3'-Dichlorobenzidine	6.44	4.776		mg/Kg		74	10 - 130
2,4-Dichlorophenol	6.44	4.946		mg/Kg		77	30 - 130

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

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diethyl phthalate	6.44	5.138		mg/Kg		80	36 - 130
2,4-Dimethylphenol	6.44	4.388		mg/Kg		68	34 - 130
Dimethyl phthalate	6.44	4.941		mg/Kg		77	36 - 130
Di-n-butyl phthalate	6.44	5.393		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	12.9	11.22		mg/Kg		87	22 - 130
2,4-Dinitrophenol	12.9	9.487		mg/Kg		74	10 - 130
2,4-Dinitrotoluene	6.44	6.097		mg/Kg		95	34 - 130
2,6-Dinitrotoluene	6.44	5.536		mg/Kg		86	33 - 130
Di-n-octyl phthalate	6.44	5.336		mg/Kg		83	38 - 131
Fluoranthene	6.44	5.345		mg/Kg		83	38 - 130
Fluorene	6.44	4.936		mg/Kg		77	34 - 130
Hexachlorobenzene	6.44	5.044		mg/Kg		78	28 - 130
Hexachlorobutadiene	6.44	4.279		mg/Kg		66	22 - 130
Hexachlorocyclopentadiene	6.44	3.240		mg/Kg		50	11 - 130
Hexachloroethane	6.44	3.927		mg/Kg		61	21 - 130
Indeno[1,2,3-cd]pyrene	6.44	5.356		mg/Kg		83	40 - 130
Isophorone	6.44	4.403		mg/Kg		68	26 - 130
2-Methylnaphthalene	6.44	4.507		mg/Kg		70	28 - 130
2-Methylphenol	6.44	4.349		mg/Kg		68	30 - 130
3 & 4 Methylphenol	6.44	4.539		mg/Kg		70	31 - 130
Naphthalene	6.44	4.373		mg/Kg		68	25 - 130
2-Nitroaniline	6.44	5.261		mg/Kg		82	26 - 130
3-Nitroaniline	6.44	5.329		mg/Kg		83	10 - 130
4-Nitroaniline	6.44	5.791		mg/Kg		90	25 - 130
Nitrobenzene	6.44	4.462		mg/Kg		69	25 - 130
2-Nitrophenol	6.44	4.798		mg/Kg		75	24 - 130
4-Nitrophenol	12.9	12.30		mg/Kg		96	25 - 130
N-Nitrosodi-n-propylamine	6.44	3.962		mg/Kg		62	24 - 130
N-Nitrosodiphenylamine	6.44	5.167		mg/Kg		80	37 - 130
Pentachlorophenol	12.9	11.22		mg/Kg		87	16 - 135
Phenanthrene	6.44	5.064		mg/Kg		79	38 - 130
Phenol	6.44	4.308		mg/Kg		67	27 - 130
Pyrene	6.44	5.457		mg/Kg		85	40 - 130
Pyridine	12.9	4.498		mg/Kg		35	10 - 130
2,4,5-Trichlorophenol	6.44	5.117		mg/Kg		79	33 - 130
2,4,6-Trichlorophenol	6.44	5.188		mg/Kg		81	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*
2-Fluorophenol (Surr)	*61*		*18 - 130*
Nitrobenzene-d5 (Surr)	*64*		*19 - 130*
Phenol-d5 (Surr)	*64*		*21 - 130*
Terphenyl-d14 (Surr)	*76*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*80*		*21 - 132*

GC/MS VOA

Analysis Batch: 664697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-1	WOTA-SS-04 (8)	Total/NA	Solid	8260D	664701
680-247618-2	WOTA-SS-05 (8)	Total/NA	Solid	8260D	664701
680-247618-3	WOTA-SS-06 (8)	Total/NA	Solid	8260D	664701
680-247618-4	WOTA-SS-07 (8)	Total/NA	Solid	8260D	664701
680-247618-5	WOTA-SS-08 (8)	Total/NA	Solid	8260D	664701
680-247618-6	WOTA-SS-04 (4)	Total/NA	Solid	8260D	664701
680-247618-7	WOTA-SS-05 (4)	Total/NA	Solid	8260D	664701
680-247618-8	WOTA-SS-06 (4)	Total/NA	Solid	8260D	664701
680-247618-9	WOTA-SS-07 (4)	Total/NA	Solid	8260D	664701
MB 400-664701/2-A	Method Blank	Total/NA	Solid	8260D	664701
LCS 400-664701/1-A	Lab Control Sample	Total/NA	Solid	8260D	664701
680-247618-3 MS	WOTA-SS-06 (8)	Total/NA	Solid	8260D	664701
680-247618-3 MSD	WOTA-SS-06 (8)	Total/NA	Solid	8260D	664701

Prep Batch: 664701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-1	WOTA-SS-04 (8)	Total/NA	Solid	5035	
680-247618-2	WOTA-SS-05 (8)	Total/NA	Solid	5035	
680-247618-3	WOTA-SS-06 (8)	Total/NA	Solid	5035	
680-247618-4	WOTA-SS-07 (8)	Total/NA	Solid	5035	
680-247618-5	WOTA-SS-08 (8)	Total/NA	Solid	5035	
680-247618-6	WOTA-SS-04 (4)	Total/NA	Solid	5035	
680-247618-7	WOTA-SS-05 (4)	Total/NA	Solid	5035	
680-247618-8	WOTA-SS-06 (4)	Total/NA	Solid	5035	
680-247618-9	WOTA-SS-07 (4)	Total/NA	Solid	5035	
MB 400-664701/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-664701/1-A	Lab Control Sample	Total/NA	Solid	5035	
680-247618-3 MS	WOTA-SS-06 (8)	Total/NA	Solid	5035	
680-247618-3 MSD	WOTA-SS-06 (8)	Total/NA	Solid	5035	

Analysis Batch: 826226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-11	Trip Blank	Total/NA	Water	8260D	
MB 680-826226/10	Method Blank	Total/NA	Water	8260D	
LCS 680-826226/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-826226/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 827726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-10	WOTA-SS-08 (4)	Total/NA	Solid	8260D	827854
MB 680-827726/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-827726/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827726/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 827854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-10	WOTA-SS-08 (4)	Total/NA	Solid	5030C	

GC/MS Semi VOA

Prep Batch: 826806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-1	WOTA-SS-04 (8)	Total/NA	Solid	3546	
680-247618-2	WOTA-SS-05 (8)	Total/NA	Solid	3546	
680-247618-3	WOTA-SS-06 (8)	Total/NA	Solid	3546	
680-247618-4	WOTA-SS-07 (8)	Total/NA	Solid	3546	
680-247618-5	WOTA-SS-08 (8)	Total/NA	Solid	3546	
680-247618-6	WOTA-SS-04 (4)	Total/NA	Solid	3546	
680-247618-7	WOTA-SS-05 (4)	Total/NA	Solid	3546	
680-247618-8	WOTA-SS-06 (4)	Total/NA	Solid	3546	
680-247618-9	WOTA-SS-07 (4)	Total/NA	Solid	3546	
680-247618-10	WOTA-SS-08 (4)	Total/NA	Solid	3546	
MB 680-826806/19-A	Method Blank	Total/NA	Solid	3546	
LCS 680-826806/20-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 826937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-1	WOTA-SS-04 (8)	Total/NA	Solid	8270E	826806
680-247618-2	WOTA-SS-05 (8)	Total/NA	Solid	8270E	826806
680-247618-3	WOTA-SS-06 (8)	Total/NA	Solid	8270E	826806
680-247618-4	WOTA-SS-07 (8)	Total/NA	Solid	8270E	826806
680-247618-5	WOTA-SS-08 (8)	Total/NA	Solid	8270E	826806
680-247618-6	WOTA-SS-04 (4)	Total/NA	Solid	8270E	826806
680-247618-7	WOTA-SS-05 (4)	Total/NA	Solid	8270E	826806
680-247618-8	WOTA-SS-06 (4)	Total/NA	Solid	8270E	826806
680-247618-9	WOTA-SS-07 (4)	Total/NA	Solid	8270E	826806
680-247618-10	WOTA-SS-08 (4)	Total/NA	Solid	8270E	826806
MB 680-826806/19-A	Method Blank	Total/NA	Solid	8270E	826806
LCS 680-826806/20-A	Lab Control Sample	Total/NA	Solid	8270E	826806

General Chemistry

Analysis Batch: 826497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247618-1	WOTA-SS-04 (8)	Total/NA	Solid	Moisture	
680-247618-2	WOTA-SS-05 (8)	Total/NA	Solid	Moisture	
680-247618-3	WOTA-SS-06 (8)	Total/NA	Solid	Moisture	
680-247618-4	WOTA-SS-07 (8)	Total/NA	Solid	Moisture	
680-247618-5	WOTA-SS-08 (8)	Total/NA	Solid	Moisture	
680-247618-6	WOTA-SS-04 (4)	Total/NA	Solid	Moisture	
680-247618-7	WOTA-SS-05 (4)	Total/NA	Solid	Moisture	
680-247618-8	WOTA-SS-06 (4)	Total/NA	Solid	Moisture	
680-247618-9	WOTA-SS-07 (4)	Total/NA	Solid	Moisture	
680-247618-10	WOTA-SS-08 (4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-04 (8)

Lab Sample ID: 680-247618-1

Date Collected: 03/05/24 09:20
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-04 (8)

Lab Sample ID: 680-247618-1

Date Collected: 03/05/24 09:20
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.423 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 17:22	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.39 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 22:55	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-05 (8)

Lab Sample ID: 680-247618-2

Date Collected: 03/05/24 09:30
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-05 (8)

Lab Sample ID: 680-247618-2

Date Collected: 03/05/24 09:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.535 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 17:47	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.32 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 23:21	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-06 (8)

Lab Sample ID: 680-247618-3

Date Collected: 03/05/24 09:35
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-06 (8)

Lab Sample ID: 680-247618-3

Date Collected: 03/05/24 09:35

Matrix: Solid

Date Received: 03/06/24 10:17

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.237 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 11:56	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.58 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 23:46	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-07 (8)

Lab Sample ID: 680-247618-4

Date Collected: 03/05/24 09:40

Matrix: Solid

Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-07 (8)

Lab Sample ID: 680-247618-4

Date Collected: 03/05/24 09:40

Matrix: Solid

Date Received: 03/06/24 10:17

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.773 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 18:12	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.42 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 00:12	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-08 (8)

Lab Sample ID: 680-247618-5

Date Collected: 03/05/24 09:45

Matrix: Solid

Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-08 (8)

Lab Sample ID: 680-247618-5

Date Collected: 03/05/24 09:45

Matrix: Solid

Date Received: 03/06/24 10:17

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.592 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 18:37	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.38 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 00:38	T1C	EET SAV
	Instrument ID: CMST									

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Client Sample ID: WOTA-SS-04 (4)

Lab Sample ID: 680-247618-6

Date Collected: 03/05/24 10:30
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-04 (4)

Lab Sample ID: 680-247618-6

Date Collected: 03/05/24 10:30
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.368 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 19:02	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.45 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 01:03	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-05 (4)

Lab Sample ID: 680-247618-7

Date Collected: 03/05/24 10:40
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-05 (4)

Lab Sample ID: 680-247618-7

Date Collected: 03/05/24 10:40
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.101 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 19:27	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.27 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 01:29	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-06 (4)

Lab Sample ID: 680-247618-8

Date Collected: 03/05/24 10:50
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-06 (4)

Lab Sample ID: 680-247618-8

Date Collected: 03/05/24 10:50

Matrix: Solid

Date Received: 03/06/24 10:17

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.601 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 19:52	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.24 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 01:54	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-07 (4)

Lab Sample ID: 680-247618-9

Date Collected: 03/05/24 11:00

Matrix: Solid

Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-07 (4)

Lab Sample ID: 680-247618-9

Date Collected: 03/05/24 11:00

Matrix: Solid

Date Received: 03/06/24 10:17

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.729 g	5.00 g	664701	03/16/24 09:14	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	664697	03/16/24 20:17	BPO	EET PEN
	Instrument ID: CH_LARS									
Total/NA	Prep	3546			15.83 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 02:19	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-SS-08 (4)

Lab Sample ID: 680-247618-10

Date Collected: 03/05/24 11:10

Matrix: Solid

Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-SS-08 (4)

Lab Sample ID: 680-247618-10

Date Collected: 03/05/24 11:10

Matrix: Solid

Date Received: 03/06/24 10:17

Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.8 g	5 mL	827854	03/14/24 12:41	MLL	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 14:30	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.28 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/12/24 02:45	T1C	EET SAV
	Instrument ID: CMST									

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-247618-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: Trip Blank
Lab Sample ID: 680-247618-11
Date Collected: 03/05/24 00:00
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 16:01	MLL	EET SAV
	Instrument ID: CMSAB									

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Accreditation/Certification Summary

Client: Terracon Consultants, Inc.
Job ID: 680-247618-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	314	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247618-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
5035	Closed System Purge and Trap	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154780-55565.1
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:	Analysis Requested		Job #:
Address: 2401 Brentwood Road Suite 107	Due Date 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:
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
WOTA-SS-04 (8)	3/5/24	9:20	G	S			X	X			
WOTA-SS-05 (8)		9:30					X	X			
WOTA-SS-06 (8)		9:35					X	X			MS/MSD collected from
WOTA-SS-07 (8)		9:40					X	X			
WOTA-SS-08 (8)		9:45					X	X			
WOTA-SS-04 (4)		10:30					X	X			
WOTA-SS-05 (4)		10:40					X	X			
WOTA-SS-06 (4)		10:50					X	X			
WOTA-SS-07 (4)		11:00					X	X			
WOTA-SS-08 (4)		11:10					X	X			
Trip Blank									X		on hold

680-247618 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
[signature]	3/5/24 18:30		[signature]	3-6-24 1017	M
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 4.1 / 4.1

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-765962.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 680-247618-1
Address: 3355 McLemore Drive,	Due Date Requested: 3/13/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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 - Client ID (Lab ID)	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)	8260D/5035A_FP VOCs-NC 02L List - Soil	Special Instructions/Note:
			Preservation Code:					
WOTA-SS-04 (8) (680-247618-1)	3/5/24	09:20 Eastern		Solid			X	
WOTA-SS-05 (8) (680-247618-2)	3/5/24	09:30 Eastern		Solid			X	
WOTA-SS-06 (8) (680-247618-3)	3/5/24	09:35 Eastern		Solid			X	
WOTA-SS-06 (8) (680-247618-3MS)	3/5/24	09:35 Eastern	MS	Solid			X	
WOTA-SS-06 (8) (680-247618-3MSD)	3/5/24	09:35 Eastern	MSD	Solid			X	
WOTA-SS-07 (8) (680-247618-4)	3/5/24	09:40 Eastern		Solid			X	
WOTA-SS-08 (8) (680-247618-5)	3/5/24	09:45 Eastern		Solid			X	
WOTA-SS-04 (4) (680-247618-6)	3/5/24	10:30 Eastern		Solid			X	
WOTA-SS-05 (4) (680-247618-7)	3/5/24	10:40 Eastern		Solid			X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/12/24 1800		BP	3/13/24 958	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 0.2°C IR11

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-765962.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 2 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 680-247618-1
Address: 3355 McLemore Drive,	Due Date Requested: 3/13/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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 - Client ID (Lab ID)	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)	8260D/5035A_FP VOCs-NC 02L List - Soil	Special Instructions/Note:
			Preservation Code:					
WOTA-SS-06 (4) (680-247618-8)	3/5/24	10:50 Eastern		Solid			X	
WOTA-SS-07 (4) (680-247618-9)	3/5/24	11:00 Eastern		Solid			X	
WOTA-SS-08 (4) (680-247618-10)	3/5/24	11:10 Eastern		Solid			X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/12/24 1500		BP	3/13/24 958	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2°C IR11

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247618-1

Login Number: 247618

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	

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/18/2024 4:22:35 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247630-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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3/18/2024 4:22:35 PM

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

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.
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, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247630-1	WOTA-BS-04	Solid	03/05/24 09:50	03/06/24 10:17
680-247630-2	WOTA-BS-05	Solid	03/05/24 09:55	03/06/24 10:17
680-247630-3	WOTA-BS-06	Solid	03/05/24 10:00	03/06/24 10:17
680-247630-4	NH-14a	Solid	03/05/24 10:20	03/06/24 10:17
680-247630-5	NH-14b	Solid	03/05/24 10:25	03/06/24 10:17
680-247630-6	NH-14	Solid	03/05/24 10:20	03/06/24 10:17
680-247630-7	Field Blank - 20240305	Water	03/05/24 12:30	03/06/24 10:17
680-247630-8	Equipment Blank - 20240305	Water	03/05/24 12:40	03/06/24 10:17
680-247630-9	Trip Blank	Water	03/05/24 00:00	03/06/24 10:17

Job ID: 680-247630-1 Eurofins Savannah

Job Narrative
680-247630-1

Receipt
The samples were received on 3/6/2024 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions
COC lists an MS/MSD sample that appears to have been belong to a sample not listed on COC.

GC/MS VOA
Method 8260D - TCLP: The leachate blank (LB) for preparation batch 680-827653 contained Chlorobenzene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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

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

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

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0342**	**J**	0.0520	0.0114	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Benzene	<0.00250		0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Bromobenzene	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chlorobromomethane	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Dichlorobromomethane	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Bromoform	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Bromomethane	<0.00250	*+	0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2-Butanone (MEK)	<0.00957		0.0260	0.00957	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
n-Butylbenzene	<0.00198		0.00520	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
sec-Butylbenzene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
tert-Butylbenzene	<0.00260		0.00520	0.00260	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Carbon disulfide	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Carbon tetrachloride	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chlorobenzene	<0.00146		0.00520	0.00146	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chloroethane	<0.00229	*+	0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chloroform	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chloromethane	<0.00250		0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2-Chlorotoluene	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
4-Chlorotoluene	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Chlorodibromomethane	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dibromo-3-Chloropropane	<0.00167		0.0104	0.00167	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Ethylene Dibromide	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Dibromomethane	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dichlorobenzene	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,3-Dichlorobenzene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,4-Dichlorobenzene	<0.00187		0.00520	0.00187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
trans-1,4-Dichloro-2-butene	<0.00250		0.0104	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Dichlorodifluoromethane	<0.00333		0.00520	0.00333	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1-Dichloroethane	<0.00302		0.00520	0.00302	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dichloroethane	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
cis-1,2-Dichloroethene	**0.0151**		0.00520	0.00302	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
trans-1,2-Dichloroethene	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1-Dichloroethene	<0.00375		0.00520	0.00375	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2-Dichloropropane	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,3-Dichloropropane	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2,2-Dichloropropane	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1-Dichloropropene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
cis-1,3-Dichloropropene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
trans-1,3-Dichloropropene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Ethylbenzene	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Hexachlorobutadiene	<0.00427		0.00520	0.00427	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
2-Hexanone	<0.0198		0.0260	0.0198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Iodomethane	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Isopropylbenzene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
4-Isopropyltoluene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Methylene Chloride	<0.00833		0.0104	0.00833	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0187		0.0260	0.0187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Methyl tert-butyl ether	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Naphthalene	<0.00323		0.00520	0.00323	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Styrene	<0.00198		0.00520	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,1,2-Tetrachloroethane	<0.00135		0.00520	0.00135	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,2,2-Tetrachloroethane	<0.00219		0.00520	0.00219	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Tetrachloroethene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Toluene	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,3-Trichlorobenzene	<0.00208		0.00520	0.00208	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,4-Trichlorobenzene	<0.00260		0.00520	0.00260	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,1-Trichloroethane	<0.00271		0.00520	0.00271	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,2-Trichloroethane	<0.00156		0.00520	0.00156	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Trichloroethene	**0.0831**		0.00520	0.00187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Trichlorofluoromethane	<0.00323		0.00520	0.00323	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,3-Trichloropropane	<0.00187		0.00520	0.00187	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00302		0.00520	0.00302	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,2,4-Trimethylbenzene	<0.00260		0.00520	0.00260	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
1,3,5-Trimethylbenzene	<0.00250		0.00520	0.00250	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Vinyl acetate	<0.00572		0.0104	0.00572	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Vinyl chloride	<0.00291		0.00520	0.00291	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
o-Xylene	<0.00239		0.00520	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
m-Xylene & p-Xylene	<0.00229		0.00520	0.00229	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Xylenes, Total	<0.00375		0.0104	0.00375	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Isopropyl ether	<0.00156		0.0104	0.00156	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Hexane	<0.00177		0.00520	0.00177	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
n-Heptane	<0.00447		0.00520	0.00447	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1
Ethyl acetate	<0.0104		0.0104	0.0104	mg/Kg	☼	03/11/24 10:52	03/18/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*121*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*126*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*
Dibromofluoromethane (Surr)	*122*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0499		0.402	0.0499	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Acenaphthylene	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Acetophenone	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Anthracene	<0.0304		0.402	0.0304	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Atrazine	<0.0280		0.402	0.0280	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzaldehyde	<0.0706		0.402	0.0706	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[a]anthracene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[a]pyrene	<0.0633		0.402	0.0633	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[b]fluoranthene	<0.0462		0.402	0.0462	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[g,h,i]perylene	<0.0268		0.402	0.0268	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Benzo[k]fluoranthene	<0.0791		0.402	0.0791	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
1,1'-Biphenyl	<2.07		2.07	2.07	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Bis(2-chloroethoxy)methane	<0.0475		0.402	0.0475	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Bis(2-chloroethyl)ether	<0.0548		0.402	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
bis (2-chloroisopropyl) ether	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Bis(2-ethylhexyl) phthalate	<0.0353		0.402	0.0353	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Butyl benzyl phthalate	<0.0316		0.402	0.0316	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Caprolactam	<0.0803		0.402	0.0803	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Carbazole	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Chloroaniline	<0.0633		0.803	0.0633	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Chloro-3-methylphenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Chloronaphthalene	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Chlorophenol	<0.0487		0.402	0.0487	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Chlorophenyl phenyl ether	<0.0535		0.402	0.0535	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Chrysene	<0.0256		0.402	0.0256	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Dibenz(a,h)anthracene	<0.0475		0.402	0.0475	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Dibenzofuran	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
3,3'-Dichlorobenzidine	<0.0341		0.803	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dichlorophenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Diethyl phthalate	<0.0450		0.402	0.0450	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dimethylphenol	<0.0535		0.402	0.0535	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Dimethyl phthalate	<0.0414		0.402	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Di-n-butyl phthalate	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4,6-Dinitro-2-methylphenol	<0.207		2.07	0.207	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dinitrophenol	<1.01		2.07	1.01	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4-Dinitrotoluene	<0.0596		0.402	0.0596	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,6-Dinitrotoluene	<0.0511		0.402	0.0511	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Di-n-octyl phthalate	<0.0353		0.402	0.0353	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Fluoranthene	<0.0389		0.402	0.0389	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Fluorene	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachlorobenzene	<0.0475		0.402	0.0475	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachlorobutadiene	<0.0438		0.402	0.0438	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachlorocyclopentadiene	<0.0499		0.402	0.0499	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Hexachloroethane	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Indeno[1,2,3-cd]pyrene	<0.0341		0.402	0.0341	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Isophorone	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Methylnaphthalene	<0.0462		0.402	0.0462	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Methylphenol	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
3 & 4 Methylphenol	<0.0523		0.402	0.0523	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Naphthalene	<0.0365		0.402	0.0365	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Nitroaniline	<0.0548		2.07	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
3-Nitroaniline	<0.0560		2.07	0.0560	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Nitroaniline	<0.0596		2.07	0.0596	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Nitrobenzene	<0.0316		0.402	0.0316	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2-Nitrophenol	<0.0499		0.402	0.0499	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
4-Nitrophenol	<0.402		2.07	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
N-Nitrosodi-n-propylamine	<0.0389		0.402	0.0389	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
N-Nitrosodiphenylamine	<0.0402		0.402	0.0402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Pentachlorophenol	<0.402		2.07	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Phenanthrene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Phenol	<0.0414		0.402	0.0414	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Pyrene	<0.0329		0.402	0.0329	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
Pyridine	<0.402		0.803	0.402	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1
2,4,5-Trichlorophenol	<0.0426		0.402	0.0426	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1

Client Sample ID: WOTA-BS-04

Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1

Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0353		0.402	0.0353	mg/Kg	☼	03/11/24 10:45	03/11/24 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
2-Fluorophenol (Surr)	*61*		*18 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
Nitrobenzene-d5 (Surr)	*66*		*19 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
Terphenyl-d14 (Surr)	*73*		*31 - 133*	*03/11/24 10:45*	*03/11/24 21:14*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/11/24 10:45*	*03/11/24 21:14*	*1*

Client Sample ID: WOTA-BS-05

Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2

Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0232**	**J**	0.0470	0.0103	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Benzene	<0.00225		0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Bromobenzene	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chlorobromomethane	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Dichlorobromomethane	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Bromoform	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Bromomethane	<0.00225	*+	0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2-Butanone (MEK)	<0.00864		0.0235	0.00864	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
n-Butylbenzene	<0.00178		0.00470	0.00178	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
sec-Butylbenzene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
tert-Butylbenzene	<0.00235		0.00470	0.00235	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Carbon disulfide	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Carbon tetrachloride	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chlorobenzene	<0.00131		0.00470	0.00131	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chloroethane	<0.00207	*+	0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chloroform	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chloromethane	<0.00225		0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2-Chlorotoluene	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
4-Chlorotoluene	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Chlorodibromomethane	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dibromo-3-Chloropropane	<0.00150		0.00939	0.00150	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Ethylene Dibromide	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Dibromomethane	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dichlorobenzene	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,3-Dichlorobenzene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,4-Dichlorobenzene	<0.00169		0.00470	0.00169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
trans-1,4-Dichloro-2-butene	<0.00225		0.00939	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Dichlorodifluoromethane	<0.00301		0.00470	0.00301	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1-Dichloroethane	<0.00272		0.00470	0.00272	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dichloroethane	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
cis-1,2-Dichloroethene	**0.00537**		0.00470	0.00272	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
trans-1,2-Dichloroethene	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1-Dichloroethene	<0.00338		0.00470	0.00338	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2-Dichloropropane	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2,2-Dichloropropane	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1-Dichloropropene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
cis-1,3-Dichloropropene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
trans-1,3-Dichloropropene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Ethylbenzene	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Hexachlorobutadiene	<0.00385		0.00470	0.00385	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
2-Hexanone	<0.0178		0.0235	0.0178	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Iodomethane	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Isopropylbenzene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
4-Isopropyltoluene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Methylene Chloride	<0.00751		0.00939	0.00751	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0169		0.0235	0.0169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Methyl tert-butyl ether	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Naphthalene	<0.00291		0.00470	0.00291	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
N-Propylbenzene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Styrene	<0.00178		0.00470	0.00178	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,1,2-Tetrachloroethane	<0.00122		0.00470	0.00122	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,2,2-Tetrachloroethane	<0.00197		0.00470	0.00197	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Tetrachloroethene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Toluene	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,3-Trichlorobenzene	<0.00188		0.00470	0.00188	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,4-Trichlorobenzene	<0.00235		0.00470	0.00235	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,1-Trichloroethane	<0.00244		0.00470	0.00244	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,2-Trichloroethane	<0.00141		0.00470	0.00141	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Trichloroethene	**0.0238**		0.00470	0.00169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Trichlorofluoromethane	<0.00291		0.00470	0.00291	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,3-Trichloropropane	<0.00169		0.00470	0.00169	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00272		0.00470	0.00272	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,2,4-Trimethylbenzene	<0.00235		0.00470	0.00235	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
1,3,5-Trimethylbenzene	<0.00225		0.00470	0.00225	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Vinyl acetate	<0.00517		0.00939	0.00517	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Vinyl chloride	<0.00263		0.00470	0.00263	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
o-Xylene	<0.00216		0.00470	0.00216	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
m-Xylene & p-Xylene	<0.00207		0.00470	0.00207	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Xylenes, Total	<0.00338		0.00939	0.00338	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Isopropyl ether	<0.00141		0.00939	0.00141	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Hexane	<0.00160		0.00470	0.00160	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
n-Heptane	<0.00404		0.00470	0.00404	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1
Ethyl acetate	<0.00939		0.00939	0.00939	mg/Kg	☼	03/11/24 10:52	03/18/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*119*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*
Dibromofluoromethane (Surr)	*121*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0507		0.408	0.0507	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Acetophenone	<0.0346		0.408	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Anthracene	<0.0309		0.408	0.0309	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Atrazine	<0.0285		0.408	0.0285	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzaldehyde	<0.0718		0.408	0.0718	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[a]anthracene	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[a]pyrene	<0.0643		0.408	0.0643	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[b]fluoranthene	<0.0470		0.408	0.0470	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[g,h,i]perylene	<0.0272		0.408	0.0272	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Benzo[k]fluoranthene	<0.0804		0.408	0.0804	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
1,1'-Biphenyl	<2.10		2.10	2.10	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Bis(2-chloroethoxy)methane	<0.0483		0.408	0.0483	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Bis(2-chloroethyl)ether	<0.0557		0.408	0.0557	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
bis (2-chloroisopropyl) ether	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Bis(2-ethylhexyl) phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Bromophenyl phenyl ether	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Butyl benzyl phthalate	<0.0322		0.408	0.0322	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Caprolactam	<0.0817		0.408	0.0817	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Carbazole	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Chloroaniline	<0.0643		0.817	0.0643	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Chloro-3-methylphenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Chloronaphthalene	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Chlorophenol	<0.0495		0.408	0.0495	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Chlorophenyl phenyl ether	<0.0544		0.408	0.0544	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Chrysene	<0.0260		0.408	0.0260	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Dibenz(a,h)anthracene	<0.0483		0.408	0.0483	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Dibenzofuran	<0.0408		0.408	0.0408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
3,3'-Dichlorobenzidine	<0.0346		0.817	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Diethyl phthalate	<0.0458		0.408	0.0458	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dimethylphenol	<0.0544		0.408	0.0544	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Dimethyl phthalate	<0.0421		0.408	0.0421	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Di-n-butyl phthalate	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4,6-Dinitro-2-methylphenol	<0.210		2.10	0.210	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dinitrophenol	<1.03		2.10	1.03	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4-Dinitrotoluene	<0.0606		0.408	0.0606	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,6-Dinitrotoluene	<0.0520		0.408	0.0520	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Di-n-octyl phthalate	<0.0359		0.408	0.0359	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Fluoranthene	<0.0396		0.408	0.0396	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Fluorene	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachlorobenzene	<0.0483		0.408	0.0483	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachlorobutadiene	<0.0445		0.408	0.0445	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachlorocyclopentadiene	<0.0507		0.408	0.0507	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Hexachloroethane	<0.0346		0.408	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Indeno[1,2,3-cd]pyrene	<0.0346		0.408	0.0346	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Isophorone	<0.0408		0.408	0.0408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Methylnaphthalene	<0.0470		0.408	0.0470	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Methylphenol	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
3 & 4 Methylphenol	<0.0532		0.408	0.0532	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1

Client Sample ID: WOTA-BS-05

Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2

Matrix: Solid
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.0371		0.408	0.0371	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Nitroaniline	<0.0557		2.10	0.0557	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
3-Nitroaniline	<0.0569		2.10	0.0569	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Nitroaniline	<0.0606		2.10	0.0606	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Nitrobenzene	<0.0322		0.408	0.0322	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2-Nitrophenol	<0.0507		0.408	0.0507	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
4-Nitrophenol	<0.408		2.10	0.408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
N-Nitrosodi-n-propylamine	<0.0396		0.408	0.0396	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
N-Nitrosodiphenylamine	<0.0408		0.408	0.0408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Pentachlorophenol	<0.408		2.10	0.408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Phenanthrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Phenol	<0.0421		0.408	0.0421	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Pyrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
Pyridine	<0.408		0.817	0.408	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4,5-Trichlorophenol	<0.0433		0.408	0.0433	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1
2,4,6-Trichlorophenol	<0.0359		0.408	0.0359	mg/Kg	☼	03/11/24 10:45	03/11/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
2-Fluorophenol (Surr)	*57*		*18 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
Nitrobenzene-d5 (Surr)	*58*		*19 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
Phenol-d5 (Surr)	*56*		*21 - 130*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
Terphenyl-d14 (Surr)	*66*		*31 - 133*	*03/11/24 10:45*	*03/11/24 21:39*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*21 - 132*	*03/11/24 10:45*	*03/11/24 21:39*	*1*

Client Sample ID: WOTA-BS-06

Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3

Matrix: Solid
Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0191**	**J**	0.0412	0.00906	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Benzene	<0.00198		0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Bromobenzene	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chlorobromomethane	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Dichlorobromomethane	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Bromoform	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Bromomethane	<0.00198	*+	0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2-Butanone (MEK)	<0.00758		0.0206	0.00758	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
n-Butylbenzene	<0.00157		0.00412	0.00157	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
sec-Butylbenzene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
tert-Butylbenzene	<0.00206		0.00412	0.00206	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Carbon disulfide	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Carbon tetrachloride	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chlorobenzene	<0.00115		0.00412	0.00115	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chloroethane	<0.00181	*+	0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chloroform	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Chloromethane	<0.00198		0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2-Chlorotoluene	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
4-Chlorotoluene	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-06
Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3
Matrix: Solid
Percent Solids: 79.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dibromo-3-Chloropropane	<0.00132		0.00824	0.00132	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Ethylene Dibromide	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Dibromomethane	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dichlorobenzene	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,3-Dichlorobenzene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,4-Dichlorobenzene	<0.00148		0.00412	0.00148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
trans-1,4-Dichloro-2-butene	<0.00198		0.00824	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Dichlorodifluoromethane	<0.00264		0.00412	0.00264	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1-Dichloroethane	<0.00239		0.00412	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dichloroethane	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
cis-1,2-Dichloroethene	**0.00630**		0.00412	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
trans-1,2-Dichloroethene	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1-Dichloroethene	<0.00297		0.00412	0.00297	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2-Dichloropropane	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,3-Dichloropropane	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2,2-Dichloropropane	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1-Dichloropropene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
cis-1,3-Dichloropropene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
trans-1,3-Dichloropropene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Ethylbenzene	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Hexachlorobutadiene	<0.00338		0.00412	0.00338	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
2-Hexanone	<0.0157		0.0206	0.0157	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Iodomethane	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Isopropylbenzene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
4-Isopropyltoluene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Methylene Chloride	<0.00659		0.00824	0.00659	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
4-Methyl-2-pentanone (MIBK)	<0.0148		0.0206	0.0148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Methyl tert-butyl ether	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Naphthalene	<0.00255		0.00412	0.00255	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
N-Propylbenzene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Styrene	<0.00157		0.00412	0.00157	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,1,2-Tetrachloroethane	<0.00107		0.00412	0.00107	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,2,2-Tetrachloroethane	<0.00173		0.00412	0.00173	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Tetrachloroethene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Toluene	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,3-Trichlorobenzene	<0.00165		0.00412	0.00165	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,4-Trichlorobenzene	<0.00206		0.00412	0.00206	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,1-Trichloroethane	<0.00214		0.00412	0.00214	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,2-Trichloroethane	<0.00124		0.00412	0.00124	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Trichloroethene	**0.00257**	**J**	0.00412	0.00148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Trichlorofluoromethane	<0.00255		0.00412	0.00255	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,3-Trichloropropane	<0.00148		0.00412	0.00148	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00239		0.00412	0.00239	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,2,4-Trimethylbenzene	<0.00206		0.00412	0.00206	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
1,3,5-Trimethylbenzene	<0.00198		0.00412	0.00198	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Vinyl acetate	<0.00453		0.00824	0.00453	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Vinyl chloride	<0.00231		0.00412	0.00231	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
o-Xylene	<0.00189		0.00412	0.00189	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1

Client Sample ID: WOTA-BS-06

Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3

Matrix: Solid
Percent Solids: 79.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00181		0.00412	0.00181	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Xylenes, Total	<0.00297		0.00824	0.00297	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Isopropyl ether	<0.00124		0.00824	0.00124	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Hexane	<0.00140		0.00412	0.00140	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
n-Heptane	<0.00354		0.00412	0.00354	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1
Ethyl acetate	<0.00824		0.00824	0.00824	mg/Kg	☼	03/11/24 10:52	03/18/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*123*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*135*	*S1+*	*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*
Dibromofluoromethane (Surr)	*124*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*
4-Bromofluorobenzene (Surr)	*116*		*65 - 130*	*03/11/24 10:52*	*03/18/24 14:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0501		0.403	0.0501	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Acenaphthylene	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Acetophenone	<0.0342		0.403	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Anthracene	<0.0305		0.403	0.0305	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Atrazine	<0.0281		0.403	0.0281	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzaldehyde	<0.0708		0.403	0.0708	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[a]anthracene	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[a]pyrene	<0.0635		0.403	0.0635	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[b]fluoranthene	<0.0464		0.403	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[g,h,i]perylene	<0.0269		0.403	0.0269	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Benzo[k]fluoranthene	<0.0794		0.403	0.0794	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
1,1'-Biphenyl	<2.08		2.08	2.08	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Bis(2-chloroethoxy)methane	<0.0476		0.403	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Bis(2-chloroethyl)ether	<0.0550		0.403	0.0550	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
bis (2-chloroisopropyl) ether	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Bis(2-ethylhexyl) phthalate	<0.0354		0.403	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Bromophenyl phenyl ether	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Butyl benzyl phthalate	<0.0318		0.403	0.0318	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Caprolactam	<0.0806		0.403	0.0806	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Carbazole	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Chloroaniline	<0.0635		0.806	0.0635	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Chloro-3-methylphenol	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Chloronaphthalene	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Chlorophenol	<0.0489		0.403	0.0489	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Chlorophenyl phenyl ether	<0.0537		0.403	0.0537	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Chrysene	<0.0257		0.403	0.0257	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Dibenz(a,h)anthracene	<0.0476		0.403	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Dibenzofuran	<0.0403		0.403	0.0403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
3,3'-Dichlorobenzidine	<0.0342		0.806	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4-Dichlorophenol	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Diethyl phthalate	<0.0452		0.403	0.0452	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4-Dimethylphenol	<0.0537		0.403	0.0537	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Dimethyl phthalate	<0.0415		0.403	0.0415	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Di-n-butyl phthalate	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4,6-Dinitro-2-methylphenol	<0.208		2.08	0.208	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1

Client Sample ID: WOTA-BS-06

Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3

Matrix: Solid
Percent Solids: 79.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<1.01		2.08	1.01	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4-Dinitrotoluene	<0.0599		0.403	0.0599	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,6-Dinitrotoluene	<0.0513		0.403	0.0513	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Di-n-octyl phthalate	<0.0354		0.403	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Fluoranthene	<0.0391		0.403	0.0391	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Fluorene	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachlorobenzene	<0.0476		0.403	0.0476	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachlorobutadiene	<0.0440		0.403	0.0440	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachlorocyclopentadiene	<0.0501		0.403	0.0501	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Hexachloroethane	<0.0342		0.403	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Indeno[1,2,3-cd]pyrene	<0.0342		0.403	0.0342	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Isophorone	<0.0403		0.403	0.0403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Methylnaphthalene	<0.0464		0.403	0.0464	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Methylphenol	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
3 & 4 Methylphenol	<0.0525		0.403	0.0525	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Naphthalene	<0.0366		0.403	0.0366	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Nitroaniline	<0.0550		2.08	0.0550	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
3-Nitroaniline	<0.0562		2.08	0.0562	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Nitroaniline	<0.0599		2.08	0.0599	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Nitrobenzene	<0.0318		0.403	0.0318	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2-Nitrophenol	<0.0501		0.403	0.0501	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
4-Nitrophenol	<0.403		2.08	0.403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
N-Nitrosodi-n-propylamine	<0.0391		0.403	0.0391	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
N-Nitrosodiphenylamine	<0.0403		0.403	0.0403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Pentachlorophenol	<0.403		2.08	0.403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Phenanthrene	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Phenol	<0.0415		0.403	0.0415	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Pyrene	<0.0330		0.403	0.0330	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
Pyridine	<0.403		0.806	0.403	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4,5-Trichlorophenol	<0.0428		0.403	0.0428	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1
2,4,6-Trichlorophenol	<0.0354		0.403	0.0354	mg/Kg	☼	03/11/24 10:45	03/11/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
Phenol-d5 (Surr)	*59*		*21 - 130*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/11/24 22:05*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*	*03/11/24 10:45*	*03/11/24 22:05*	*1*

Client Sample ID: NH-14a

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-4

Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 14:36	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 14:36	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 14:36	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 14:36	20

Client Sample ID: NH-14a

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-4

Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 14:36	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 14:36	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 14:36	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 14:36	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 14:36	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 14:36	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 14:36	20
Vinyl chloride	<0.0100	*+	0.0200	0.0100	mg/L			03/15/24 14:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/24 14:36*	*20*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*03/15/24 14:36*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 14:36*	*20*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*03/15/24 14:36*	*20*

Client Sample ID: NH-14b

Date Collected: 03/05/24 10:25
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-5

Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 15:43	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:43	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 15:43	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/17/24 15:43	20
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 15:43	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 15:43	20
Chlorobenzene	**0.0506**		0.0200	0.00520	mg/L			03/17/24 15:43	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:43	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 15:43	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 15:43	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 15:43	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 15:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/17/24 15:43*	*20*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/17/24 15:43*	*20*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/17/24 15:43*	*20*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*03/17/24 15:43*	*20*

Client Sample ID: NH-14

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-6

Matrix: Solid
Percent Solids: 78.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0510		0.411	0.0510	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Acenaphthylene	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Acetophenone	<0.0349		0.411	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Anthracene	<0.0311		0.411	0.0311	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Atrazine	<0.0286		0.411	0.0286	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1

Client Sample ID: NH-14
Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-6
Matrix: Solid
Percent Solids: 78.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<0.0722		0.411	0.0722	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[a]anthracene	**0.0554**	**J**	0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[a]pyrene	**0.0705**	**J**	0.411	0.0647	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[b]fluoranthene	<0.0473		0.411	0.0473	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[g,h,i]perylene	**0.0660**	**J**	0.411	0.0274	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Benzo[k]fluoranthene	<0.0809		0.411	0.0809	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
1,1'-Biphenyl	<2.12		2.12	2.12	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Bis(2-chloroethoxy)methane	<0.0486		0.411	0.0486	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Bis(2-chloroethyl)ether	<0.0560		0.411	0.0560	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
bis (2-chloroisopropyl) ether	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Bis(2-ethylhexyl) phthalate	<0.0361		0.411	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Bromophenyl phenyl ether	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Butyl benzyl phthalate	<0.0324		0.411	0.0324	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Caprolactam	<0.0822		0.411	0.0822	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Carbazole	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Chloroaniline	<0.0647		0.822	0.0647	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Chloro-3-methylphenol	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Chloronaphthalene	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Chlorophenol	<0.0498		0.411	0.0498	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Chlorophenyl phenyl ether	<0.0548		0.411	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Chrysene	**0.0629**	**J**	0.411	0.0261	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Dibenz(a,h)anthracene	<0.0486		0.411	0.0486	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Dibenzofuran	<0.0411		0.411	0.0411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
3,3'-Dichlorobenzidine	<0.0349		0.822	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dichlorophenol	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Diethyl phthalate	<0.0461		0.411	0.0461	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dimethylphenol	<0.0548		0.411	0.0548	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Dimethyl phthalate	<0.0423		0.411	0.0423	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Di-n-butyl phthalate	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4,6-Dinitro-2-methylphenol	<0.212		2.12	0.212	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dinitrophenol	<1.03		2.12	1.03	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4-Dinitrotoluene	<0.0610		0.411	0.0610	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,6-Dinitrotoluene	<0.0523		0.411	0.0523	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Di-n-octyl phthalate	<0.0361		0.411	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Fluoranthene	**0.0700**	**J**	0.411	0.0398	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Fluorene	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachlorobenzene	<0.0486		0.411	0.0486	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachlorobutadiene	<0.0448		0.411	0.0448	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachlorocyclopentadiene	<0.0510		0.411	0.0510	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Hexachloroethane	<0.0349		0.411	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Indeno[1,2,3-cd]pyrene	<0.0349		0.411	0.0349	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Isophorone	<0.0411		0.411	0.0411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Methylnaphthalene	<0.0473		0.411	0.0473	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Methylphenol	<0.0336		0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
3 & 4 Methylphenol	<0.0535		0.411	0.0535	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Naphthalene	<0.0373		0.411	0.0373	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Nitroaniline	<0.0560		2.12	0.0560	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
3-Nitroaniline	<0.0573		2.12	0.0573	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Nitroaniline	<0.0610		2.12	0.0610	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1

Client Sample ID: NH-14

Date Collected: 03/05/24 10:20
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-6

Matrix: Solid
Percent Solids: 78.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<0.0324		0.411	0.0324	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2-Nitrophenol	<0.0510		0.411	0.0510	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
4-Nitrophenol	<0.411		2.12	0.411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
N-Nitrosodi-n-propylamine	<0.0398		0.411	0.0398	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
N-Nitrosodiphenylamine	<0.0411		0.411	0.0411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Pentachlorophenol	<0.411		2.12	0.411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Phenanthrene	<0.0336		0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Phenol	<0.0423		0.411	0.0423	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Pyrene	**0.0912**	**J**	0.411	0.0336	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
Pyridine	<0.411		0.822	0.411	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4,5-Trichlorophenol	<0.0436		0.411	0.0436	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1
2,4,6-Trichlorophenol	<0.0361		0.411	0.0361	mg/Kg	☼	03/11/24 10:45	03/11/24 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
2-Fluorophenol (Surr)	*57*		*18 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
Nitrobenzene-d5 (Surr)	*59*		*19 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
Phenol-d5 (Surr)	*57*		*21 - 130*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
Terphenyl-d14 (Surr)	*67*		*31 - 133*	*03/11/24 10:45*	*03/11/24 22:30*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*21 - 132*	*03/11/24 10:45*	*03/11/24 22:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 17:54	1
Pyridine	<0.0370	F1 F2	0.250	0.0370	mg/L		03/15/24 07:58	03/15/24 17:54	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/15/24 07:58	03/15/24 17:54	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/15/24 07:58	03/15/24 17:54	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 17:54	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/15/24 07:58	03/15/24 17:54	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/15/24 07:58	03/15/24 17:54	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/15/24 07:58	03/15/24 17:54	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 17:54	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 17:54	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/15/24 07:58	03/15/24 17:54	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/15/24 07:58	03/15/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*30 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
2-Fluorobiphenyl (Surr)	*59*		*25 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
2-Fluorophenol (Surr)	*30*		*10 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
Terphenyl-d14 (Surr)	*72*		*35 - 131*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
Phenol-d5 (Surr)	*20*		*10 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/15/24 07:58*	*03/15/24 17:54*	*1*

Client Sample ID: Field Blank - 20240305

Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 16:22	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Field Blank - 20240305
Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 16:22	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 16:22	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 16:22	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 16:22	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 16:22	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 16:22	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 16:22	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 16:22	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:22	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 16:22	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 16:22	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 16:22	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 16:22	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 16:22	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 16:22	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 16:22	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:22	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:22	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:22	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:22	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 16:22	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 16:22	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 16:22	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 16:22	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 16:22	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 16:22	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 16:22	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 16:22	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 16:22	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 16:22	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 16:22	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 16:22	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 16:22	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 16:22	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 16:22	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 16:22	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 16:22	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 16:22	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 16:22	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 16:22	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 16:22	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 16:22	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 16:22	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 16:22	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 16:22	1

Client Sample ID: Field Blank - 20240305
Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 16:22	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 16:22	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 16:22	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:22	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 16:22	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 16:22	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 16:22	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 16:22	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 16:22	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 16:22	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 16:22	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 16:22	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 16:22	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 16:22	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 16:22	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 16:22	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 16:22	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 16:22	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:22	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 16:22	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 16:22	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 16:22	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/07/24 16:22*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/07/24 16:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 16:22*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/07/24 16:22*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.39		9.99	4.39	ug/L		03/08/24 17:25	03/09/24 18:42	1
Acenaphthylene	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Acetophenone	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
Anthracene	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Atrazine	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzaldehyde	<4.79		9.99	4.79	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[a]anthracene	<4.19		9.99	4.19	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[a]pyrene	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[b]fluoranthene	<3.10		9.99	3.10	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[g,h,i]perylene	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Benzo[k]fluoranthene	<2.90		9.99	2.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
1,1'-Biphenyl	<4.59		9.99	4.59	ug/L		03/08/24 17:25	03/09/24 18:42	1
Bis(2-chloroethoxy)methane	<1.80		9.99	1.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Bis(2-chloroethyl)ether	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
bis (2-chloroisopropyl) ether	<3.10		9.99	3.10	ug/L		03/08/24 17:25	03/09/24 18:42	1
Bis(2-ethylhexyl) phthalate	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Bromophenyl phenyl ether	<4.69		9.99	4.69	ug/L		03/08/24 17:25	03/09/24 18:42	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Field Blank - 20240305
Date Collected: 03/05/24 12:30
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-7
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Caprolactam	<2.80	*-	9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Carbazole	<1.80		9.99	1.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Chloroaniline	<0.999		20.0	0.999	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Chloro-3-methylphenol	<2.50		9.99	2.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Chloronaphthalene	<4.79		9.99	4.79	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Chlorophenol	<3.20		9.99	3.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Chlorophenyl phenyl ether	<5.29		9.99	5.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
Chrysene	<3.80		9.99	3.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Dibenz(a,h)anthracene	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Dibenzofuran	<1.90		9.99	1.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
3,3'-Dichlorobenzidine	<9.99		59.9	9.99	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dichlorophenol	<3.70		9.99	3.70	ug/L		03/08/24 17:25	03/09/24 18:42	1
Diethyl phthalate	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dimethylphenol	<3.00		9.99	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Dimethyl phthalate	<2.10		9.99	2.10	ug/L		03/08/24 17:25	03/09/24 18:42	1
Di-n-butyl phthalate	<2.30		9.99	2.30	ug/L		03/08/24 17:25	03/09/24 18:42	1
4,6-Dinitro-2-methylphenol	<5.29		49.9	5.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dinitrophenol	<16.0		49.9	16.0	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4-Dinitrotoluene	<2.30		9.99	2.30	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,6-Dinitrotoluene	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Di-n-octyl phthalate	<2.80		9.99	2.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
Fluoranthene	<1.60		9.99	1.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Fluorene	<3.40		9.99	3.40	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachlorobenzene	<1.60		9.99	1.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachlorobutadiene	<4.00		9.99	4.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachlorocyclopentadiene	<3.50		9.99	3.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
Hexachloroethane	<3.60		9.99	3.60	ug/L		03/08/24 17:25	03/09/24 18:42	1
Indeno[1,2,3-cd]pyrene	<4.29		9.99	4.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
Isophorone	<2.00		9.99	2.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Methylnaphthalene	<4.59		9.99	4.59	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Methylphenol	<1.80		9.99	1.80	ug/L		03/08/24 17:25	03/09/24 18:42	1
3 & 4 Methylphenol	<1.40		9.99	1.40	ug/L		03/08/24 17:25	03/09/24 18:42	1
Naphthalene	<3.50		9.99	3.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Nitroaniline	<2.90		49.9	2.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
3-Nitroaniline	<3.00		49.9	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Nitroaniline	<3.00		49.9	3.00	ug/L		03/08/24 17:25	03/09/24 18:42	1
Nitrobenzene	<3.50		9.99	3.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
2-Nitrophenol	<3.90		9.99	3.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
4-Nitrophenol	<8.09		49.9	8.09	ug/L		03/08/24 17:25	03/09/24 18:42	1
N-Nitrosodi-n-propylamine	<2.40		9.99	2.40	ug/L		03/08/24 17:25	03/09/24 18:42	1
N-Nitrosodiphenylamine	<2.90		9.99	2.90	ug/L		03/08/24 17:25	03/09/24 18:42	1
Pentachlorophenol	<9.89		49.9	9.89	ug/L		03/08/24 17:25	03/09/24 18:42	1
Phenanthrene	<4.29		9.99	4.29	ug/L		03/08/24 17:25	03/09/24 18:42	1
Phenol	<1.50		9.99	1.50	ug/L		03/08/24 17:25	03/09/24 18:42	1
Pyrene	<3.70		9.99	3.70	ug/L		03/08/24 17:25	03/09/24 18:42	1
Pyridine	<7.39		49.9	7.39	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4,5-Trichlorophenol	<3.30		9.99	3.30	ug/L		03/08/24 17:25	03/09/24 18:42	1
2,4,6-Trichlorophenol	<2.20		9.99	2.20	ug/L		03/08/24 17:25	03/09/24 18:42	1

Client Sample ID: Field Blank - 20240305

Lab Sample ID: 680-247630-7

Date Collected: 03/05/24 12:30
Matrix: Water
Date Received: 03/06/24 10:17

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		25 - 130	03/08/24 17:25	03/09/24 18:42	1
2-Fluorophenol (Surr)	41		10 - 130	03/08/24 17:25	03/09/24 18:42	1
Nitrobenzene-d5 (Surr)	73		30 - 130	03/08/24 17:25	03/09/24 18:42	1
Phenol-d5 (Surr)	27		10 - 130	03/08/24 17:25	03/09/24 18:42	1
Terphenyl-d14 (Surr)	93		35 - 131	03/08/24 17:25	03/09/24 18:42	1
2,4,6-Tribromophenol (Surr)	74		30 - 130	03/08/24 17:25	03/09/24 18:42	1

Client Sample ID: Equipment Blank - 20240305

Lab Sample ID: 680-247630-8

Date Collected: 03/05/24 12:40
Matrix: Water
Date Received: 03/06/24 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 16:44	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 16:44	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 16:44	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 16:44	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 16:44	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 16:44	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 16:44	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 16:44	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 16:44	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:44	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 16:44	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 16:44	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 16:44	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 16:44	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 16:44	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 16:44	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 16:44	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 16:44	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:44	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:44	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 16:44	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 16:44	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 16:44	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 16:44	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 16:44	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 16:44	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 16:44	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 16:44	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 16:44	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 16:44	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 16:44	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 16:44	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 16:44	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Equipment Blank - 20240305
Date Collected: 03/05/24 12:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 16:44	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 16:44	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 16:44	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 16:44	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 16:44	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 16:44	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 16:44	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 16:44	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 16:44	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 16:44	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 16:44	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 16:44	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 16:44	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 16:44	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 16:44	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 16:44	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:44	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 16:44	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 16:44	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 16:44	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 16:44	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 16:44	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 16:44	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 16:44	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 16:44	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 16:44	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 16:44	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 16:44	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 16:44	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 16:44	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 16:44	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 16:44	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 16:44	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 16:44	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 16:44	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/07/24 16:44*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/07/24 16:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 16:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/07/24 16:44*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.40		10.0	4.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Acetophenone	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
Anthracene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Equipment Blank - 20240305
Date Collected: 03/05/24 12:40
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-8
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
bis (2-chloroisopropyl) ether	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		03/08/24 17:25	03/09/24 19:09	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Caprolactam	<2.80	*-	10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Carbazole	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
Chrysene	<3.80		10.0	3.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 19:09	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
Fluoranthene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Fluorene	<3.40		10.0	3.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
Isophorone	<2.00		10.0	2.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 19:09	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
Naphthalene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1

Client Sample ID: Equipment Blank - 20240305

Lab Sample ID: 680-247630-8

Date Collected: 03/05/24 12:40

Matrix: Water

Date Received: 03/06/24 10:17

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 19:09	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		03/08/24 17:25	03/09/24 19:09	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		03/08/24 17:25	03/09/24 19:09	1
Phenanthrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
Phenol	<1.50		10.0	1.50	ug/L		03/08/24 17:25	03/09/24 19:09	1
Pyrene	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 19:09	1
Pyridine	<7.40		50.0	7.40	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		03/08/24 17:25	03/09/24 19:09	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
Phenol-d5 (Surr)	*25*		*10 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
Terphenyl-d14 (Surr)	*80*		*35 - 131*	*03/08/24 17:25*	*03/09/24 19:09*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 130*	*03/08/24 17:25*	*03/09/24 19:09*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-247630-9

Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/06/24 10:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 17:06	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 17:06	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 17:06	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 17:06	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 17:06	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 17:06	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 17:06	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 17:06	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 17:06	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 17:06	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 17:06	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 17:06	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 17:06	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/07/24 17:06	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 17:06	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 17:06	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/07/24 17:06	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 17:06	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 17:06	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 17:06	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Trip Blank
Date Collected: 03/05/24 00:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 17:06	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 17:06	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 17:06	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 17:06	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 17:06	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 17:06	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 17:06	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 17:06	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 17:06	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 17:06	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 17:06	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 17:06	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 17:06	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 17:06	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 17:06	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 17:06	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 17:06	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 17:06	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 17:06	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 17:06	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 17:06	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 17:06	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 17:06	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 17:06	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 17:06	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 17:06	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 17:06	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 17:06	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 17:06	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 17:06	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/07/24 17:06	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 17:06	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 17:06	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 17:06	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 17:06	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 17:06	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 17:06	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 17:06	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 17:06	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 17:06	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 17:06	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 17:06	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/07/24 17:06	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 17:06	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 17:06	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 17:06	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Trip Blank

Date Collected: 03/05/24 00:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-9

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 17:06	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/07/24 17:06	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/07/24 17:06*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/07/24 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*03/07/24 17:06*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/07/24 17:06*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-826226/10
Matrix: Water
Analysis Batch: 826226

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/07/24 12:35	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/07/24 12:35	1
Benzene	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
Bromoform	<0.590		1.00	0.590	ug/L			03/07/24 12:35	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/07/24 12:35	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/07/24 12:35	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/07/24 12:35	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/07/24 12:35	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/07/24 12:35	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/07/24 12:35	1
Chloroform	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/07/24 12:35	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/07/24 12:35	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/07/24 12:35	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/07/24 12:35	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/07/24 12:35	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/07/24 12:35	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/07/24 12:35	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/07/24 12:35	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/07/24 12:35	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/07/24 12:35	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/07/24 12:35	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/07/24 12:35	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/07/24 12:35	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/07/24 12:35	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/07/24 12:35	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/07/24 12:35	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/07/24 12:35	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/07/24 12:35	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/07/24 12:35	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/07/24 12:35	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/07/24 12:35	1
Styrene	<0.270		1.00	0.270	ug/L			03/07/24 12:35	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-826226/10
Matrix: Water
Analysis Batch: 826226

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			03/07/24 12:35	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/07/24 12:35	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/07/24 12:35	1
Toluene	<0.250		1.00	0.250	ug/L			03/07/24 12:35	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/07/24 12:35	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/07/24 12:35	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/07/24 12:35	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/07/24 12:35	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/07/24 12:35	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/07/24 12:35	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/07/24 12:35	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/07/24 12:35	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/07/24 12:35	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/07/24 12:35	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/07/24 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/07/24 12:35	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
Hexane	<0.650		5.00	0.650	ug/L			03/07/24 12:35	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/07/24 12:35	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/07/24 12:35	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/07/24 12:35	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/07/24 12:35	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/07/24 12:35	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/07/24 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/07/24 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*03/07/24 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*03/07/24 12:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/07/24 12:35*	*1*

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	222.3		ug/L		89	67 - 120
Bromobenzene	50.0	57.98		ug/L		116	70 - 130
Benzene	50.0	54.44		ug/L		109	70 - 130
Bromoform	50.0	43.09		ug/L		86	69 - 129
Bromomethane	50.0	60.78		ug/L		122	28 - 192
2-Butanone (MEK)	250	207.2		ug/L		83	69 - 120
Chlorobromomethane	50.0	54.33		ug/L		109	70 - 130
Carbon disulfide	50.0	58.73		ug/L		117	70 - 130
Carbon tetrachloride	50.0	48.67		ug/L		97	70 - 130
Chlorobenzene	50.0	53.01		ug/L		106	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	67.95		ug/L		136	31 - 213
Chloroform	50.0	49.71		ug/L		99	70 - 130
Chloromethane	50.0	64.15	*+	ug/L		128	59 - 127
2-Chlorotoluene	50.0	59.37		ug/L		119	70 - 130
4-Chlorotoluene	50.0	60.16		ug/L		120	70 - 130
Chlorodibromomethane	50.0	47.58		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	31.91	*-	ug/L		64	70 - 130
Dibromomethane	50.0	50.63		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	50.50		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	53.99		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	53.71		ug/L		107	70 - 130
Dichlorobromomethane	50.0	48.09		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	60.58		ug/L		121	70 - 130
1,1-Dichloroethane	50.0	54.54		ug/L		109	70 - 130
1,2-Dichloroethane	50.0	46.81		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	52.58		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	56.88		ug/L		114	70 - 130
1,2-Dichloropropane	50.0	54.35		ug/L		109	70 - 130
1,3-Dichloropropane	50.0	55.46		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	50.46		ug/L		101	70 - 130
1,1-Dichloropropene	50.0	55.08		ug/L		110	70 - 130
cis-1,3-Dichloropropene	50.0	52.14		ug/L		104	70 - 130
Ethylene Dibromide	50.0	54.99		ug/L		110	70 - 130
Ethylbenzene	50.0	52.80		ug/L		106	70 - 130
Hexachlorobutadiene	50.0	48.72		ug/L		97	70 - 130
2-Hexanone	250	223.8		ug/L		90	70 - 130
Iodomethane	50.0	54.46		ug/L		109	52 - 129
Isopropylbenzene	50.0	58.83		ug/L		118	70 - 130
4-Isopropyltoluene	50.0	55.99		ug/L		112	70 - 130
Methylene Chloride	50.0	51.36		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	250	238.3		ug/L		95	68 - 120
Methyl tert-butyl ether	50.0	46.49		ug/L		93	70 - 130
Naphthalene	50.0	44.30		ug/L		89	57 - 149
n-Butylbenzene	50.0	55.63		ug/L		111	70 - 130
N-Propylbenzene	50.0	58.31		ug/L		117	70 - 130
sec-Butylbenzene	50.0	57.22		ug/L		114	70 - 130
Styrene	50.0	59.39		ug/L		119	70 - 130
tert-Butylbenzene	50.0	56.30		ug/L		113	70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.97		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.19		ug/L		94	70 - 130
Tetrachloroethene	50.0	51.07		ug/L		102	70 - 130
Toluene	50.0	52.51		ug/L		105	70 - 130
trans-1,4-Dichloro-2-butene	50.0	39.29		ug/L		79	67 - 120
trans-1,2-Dichloroethene	50.0	54.14		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	51.98		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	50.0	46.68		ug/L		93	61 - 141
1,2,4-Trichlorobenzene	50.0	49.24		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	46.52		ug/L		93	70 - 130
o-Xylene	50.0	54.50		ug/L		109	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-826226/6
Matrix: Water
Analysis Batch: 826226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichloroethane			50.0	56.38		ug/L		113	70 - 130		
m-Xylene & p-Xylene			50.0	52.91		ug/L		106	70 - 130		
Trichloroethene			50.0	52.44		ug/L		105	70 - 130		
Trichlorofluoromethane			50.0	88.88	*+	ug/L		178	63 - 142		
1,2,3-Trichloropropane			50.0	47.80		ug/L		96	70 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.78		ug/L		110	63 - 141		
1,2,4-Trimethylbenzene			50.0	59.69		ug/L		119	70 - 130		
Hexane			50.0	60.59		ug/L		121	70 - 130		
1,3,5-Trimethylbenzene			50.0	59.29		ug/L		119	70 - 130		
n-Heptane			50.0	59.47		ug/L		119	65 - 120		
Vinyl acetate			100	76.96		ug/L		77	67 - 135		
Vinyl chloride			50.0	58.02		ug/L		116	66 - 129		
Xylenes, Total			100	107.4		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
Acetone			250	233.3		ug/L		93	67 - 120	5	30
Bromobenzene			50.0	58.81		ug/L		118	70 - 130	1	30
Benzene			50.0	54.44		ug/L		109	70 - 130	0	30
Bromoform			50.0	44.96		ug/L		90	69 - 129	4	30
Bromomethane			50.0	60.16		ug/L		120	28 - 192	1	30
2-Butanone (MEK)			250	214.2		ug/L		86	69 - 120	3	30
Chlorobromomethane			50.0	54.32		ug/L		109	70 - 130	0	30
Carbon disulfide			50.0	57.86		ug/L		116	70 - 130	1	30
Carbon tetrachloride			50.0	49.28		ug/L		99	70 - 130	1	30
Chlorobenzene			50.0	53.00		ug/L		106	70 - 130	0	30
Chloroethane			50.0	66.75		ug/L		134	31 - 213	2	30
Chloroform			50.0	49.41		ug/L		99	70 - 130	1	30
Chloromethane			50.0	64.80	*+	ug/L		130	59 - 127	1	30
2-Chlorotoluene			50.0	59.72		ug/L		119	70 - 130	1	30
4-Chlorotoluene			50.0	60.35		ug/L		121	70 - 130	0	30
Chlorodibromomethane			50.0	48.63		ug/L		97	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	33.22	*-	ug/L		66	70 - 130	4	30
Dibromomethane			50.0	51.52		ug/L		103	70 - 130	2	30
1,2-Dichlorobenzene			50.0	50.96		ug/L		102	70 - 130	1	30
1,3-Dichlorobenzene			50.0	54.70		ug/L		109	70 - 130	1	30
1,4-Dichlorobenzene			50.0	53.67		ug/L		107	70 - 130	0	30
Dichlorobromomethane			50.0	48.43		ug/L		97	70 - 130	1	30
Dichlorodifluoromethane			50.0	60.83		ug/L		122	70 - 130	0	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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-Dichloroethane			50.0	53.89		ug/L		108	70 - 130	1	30
1,2-Dichloroethane			50.0	47.30		ug/L		95	70 - 130	1	50
cis-1,2-Dichloroethene			50.0	51.77		ug/L		104	70 - 130	2	30
1,1-Dichloroethene			50.0	55.88		ug/L		112	70 - 130	2	20
1,2-Dichloropropane			50.0	54.38		ug/L		109	70 - 130	0	20
1,3-Dichloropropane			50.0	56.67		ug/L		113	70 - 130	2	20
2,2-Dichloropropane			50.0	49.32		ug/L		99	70 - 130	2	20
1,1-Dichloropropene			50.0	54.45		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene			50.0	53.23		ug/L		106	70 - 130	2	20
Ethylene Dibromide			50.0	57.01		ug/L		114	70 - 130	4	30
Ethylbenzene			50.0	52.13		ug/L		104	70 - 130	1	20
Hexachlorobutadiene			50.0	48.73		ug/L		97	70 - 130	0	20
2-Hexanone			250	232.2		ug/L		93	70 - 130	4	20
Iodomethane			50.0	53.03		ug/L		106	52 - 129	3	30
Isopropylbenzene			50.0	58.55		ug/L		117	70 - 130	0	30
4-Isopropyltoluene			50.0	56.12		ug/L		112	70 - 130	0	30
Methylene Chloride			50.0	50.39		ug/L		101	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			250	248.5		ug/L		99	68 - 120	4	30
Methyl tert-butyl ether			50.0	47.68		ug/L		95	70 - 130	3	30
Naphthalene			50.0	45.40		ug/L		91	57 - 149	2	30
n-Butylbenzene			50.0	55.50		ug/L		111	70 - 130	0	30
N-Propylbenzene			50.0	57.31		ug/L		115	70 - 130	2	30
sec-Butylbenzene			50.0	56.83		ug/L		114	70 - 130	1	30
Styrene			50.0	59.57		ug/L		119	70 - 130	0	30
tert-Butylbenzene			50.0	56.09		ug/L		112	70 - 130	0	30
1,1,1,2-Tetrachloroethane			50.0	46.91		ug/L		94	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	48.25		ug/L		96	70 - 130	2	30
Tetrachloroethene			50.0	50.22		ug/L		100	70 - 130	2	30
Toluene			50.0	52.29		ug/L		105	70 - 130	0	30
trans-1,4-Dichloro-2-butene			50.0	41.60		ug/L		83	67 - 120	6	30
trans-1,2-Dichloroethene			50.0	53.70		ug/L		107	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	52.45		ug/L		105	70 - 130	1	30
1,2,3-Trichlorobenzene			50.0	46.83		ug/L		94	61 - 141	0	30
1,2,4-Trichlorobenzene			50.0	48.87		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane			50.0	46.09		ug/L		92	70 - 130	1	30
o-Xylene			50.0	54.20		ug/L		108	70 - 130	1	30
1,1,2-Trichloroethane			50.0	57.92		ug/L		116	70 - 130	3	30
m-Xylene & p-Xylene			50.0	52.30		ug/L		105	70 - 130	1	30
Trichloroethene			50.0	52.14		ug/L		104	70 - 130	1	30
Trichlorofluoromethane			50.0	88.06	*+	ug/L		176	63 - 142	1	30
1,2,3-Trichloropropane			50.0	48.97		ug/L		98	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.75		ug/L		107	63 - 141	2	30
1,2,4-Trimethylbenzene			50.0	60.23		ug/L		120	70 - 130	1	30
Hexane			50.0	59.55		ug/L		119	70 - 130	2	30
1,3,5-Trimethylbenzene			50.0	60.57		ug/L		121	70 - 130	2	30
n-Heptane			50.0	58.75		ug/L		117	65 - 120	1	30
Vinyl acetate			100	72.88		ug/L		73	67 - 135	5	30
Vinyl chloride			50.0	70.41	*+	ug/L		141	66 - 129	19	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-826226/7
Matrix: Water
Analysis Batch: 826226

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
Xylenes, Total			100	106.5		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 680-827731/11
Matrix: Solid
Analysis Batch: 827731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/15/24 13:36	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/15/24 13:36	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/15/24 13:36	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/15/24 13:36	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/15/24 13:36	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/15/24 13:36	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/15/24 13:36	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/15/24 13:36	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/15/24 13:36	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/15/24 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*113*		*70 - 130*		*03/15/24 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*03/15/24 13:36*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*03/15/24 13:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*03/15/24 13:36*	*1*

Lab Sample ID: LCS 680-827731/4
Matrix: Solid
Analysis Batch: 827731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04927		mg/L		99	70 - 130		
2-Butanone (MEK)			0.250	0.2461		mg/L		98	69 - 114		
Carbon tetrachloride			0.0500	0.04944		mg/L		99	70 - 130		
Chlorobenzene			0.0500	0.04977		mg/L		100	70 - 130		
Chloroform			0.0500	0.04748		mg/L		95	70 - 130		
1,4-Dichlorobenzene			0.0500	0.04697		mg/L		94	70 - 130		
1,2-Dichloroethane			0.0500	0.05332		mg/L		107	70 - 130		
1,1-Dichloroethene			0.0500	0.05115		mg/L		102	70 - 130		
Hexachlorobutadiene			0.0500	0.05126		mg/L		103	70 - 130		
Tetrachloroethene			0.0500	0.05079		mg/L		102	70 - 130		
Trichloroethene			0.0500	0.04679		mg/L		94	70 - 130		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827731/4
Matrix: Solid
Analysis Batch: 827731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			0.0500	0.05935		mg/L		119	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-827731/5
Matrix: Solid
Analysis Batch: 827731

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
Benzene			0.0500	0.04911		mg/L		98	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2489		mg/L		100	69 - 114	1	30
Carbon tetrachloride			0.0500	0.05032		mg/L		101	70 - 130	2	30
Chlorobenzene			0.0500	0.04892		mg/L		98	70 - 130	2	30
Chloroform			0.0500	0.04804		mg/L		96	70 - 130	1	30
1,4-Dichlorobenzene			0.0500	0.04853		mg/L		97	70 - 130	3	30
1,2-Dichloroethane			0.0500	0.05232		mg/L		105	70 - 130	2	50
1,1-Dichloroethene			0.0500	0.05096		mg/L		102	70 - 130	0	20
Hexachlorobutadiene			0.0500	0.05449		mg/L		109	70 - 130	6	20
Tetrachloroethene			0.0500	0.05221		mg/L		104	70 - 130	3	30
Trichloroethene			0.0500	0.04975		mg/L		99	70 - 130	6	30
Vinyl chloride			0.0500	0.06193		mg/L		124	66 - 129	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 680-827735/9
Matrix: Solid
Analysis Batch: 827735

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/15/24 12:40	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/15/24 12:40	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/15/24 12:40	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/15/24 12:40	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/15/24 12:40	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/15/24 12:40	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/15/24 12:40	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/15/24 12:40	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/15/24 12:40	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-827735/9
Matrix: Solid
Analysis Batch: 827735

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/15/24 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/15/24 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*03/15/24 12:40*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/15/24 12:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/24 12:40*	*1*

Lab Sample ID: LCS 680-827735/4
Matrix: Solid
Analysis Batch: 827735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05357		mg/L		107	70 - 130		
2-Butanone (MEK)			0.250	0.2487		mg/L		99	69 - 114		
Carbon tetrachloride			0.0500	0.04808		mg/L		96	70 - 130		
Chlorobenzene			0.0500	0.05236		mg/L		105	70 - 130		
Chloroform			0.0500	0.04596		mg/L		92	70 - 130		
1,4-Dichlorobenzene			0.0500	0.04993		mg/L		100	70 - 130		
1,2-Dichloroethane			0.0500	0.04787		mg/L		96	70 - 130		
1,1-Dichloroethene			0.0500	0.05208		mg/L		104	70 - 130		
Hexachlorobutadiene			0.0500	0.05002		mg/L		100	70 - 130		
Tetrachloroethene			0.0500	0.04767		mg/L		95	70 - 130		
Trichloroethene			0.0500	0.04963		mg/L		99	70 - 130		
Vinyl chloride			0.0250	0.04735	*+	mg/L		189	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*86*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
Dibromofluoromethane (Surr)	*85*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 680-827735/5
Matrix: Solid
Analysis Batch: 827735

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
Benzene			0.0500	0.05345		mg/L		107	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2648		mg/L		106	69 - 114	6	30
Carbon tetrachloride			0.0500	0.04849		mg/L		97	70 - 130	1	30
Chlorobenzene			0.0500	0.05185		mg/L		104	70 - 130	1	30
Chloroform			0.0500	0.04747		mg/L		95	70 - 130	3	30
1,4-Dichlorobenzene			0.0500	0.05098		mg/L		102	70 - 130	2	30
1,2-Dichloroethane			0.0500	0.04964		mg/L		99	70 - 130	4	50
1,1-Dichloroethene			0.0500	0.05230		mg/L		105	70 - 130	0	20
Hexachlorobutadiene			0.0500	0.04903		mg/L		98	70 - 130	2	20
Tetrachloroethene			0.0500	0.04793		mg/L		96	70 - 130	1	30
Trichloroethene			0.0500	0.05065		mg/L		101	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827735/5
Matrix: Solid
Analysis Batch: 827735

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
Vinyl chloride			0.0250	0.04696	*+	mg/L		188	66 - 129	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*87*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
Dibromofluoromethane (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 680-827981/8
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/17/24 13:45	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/17/24 13:45	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/17/24 13:45	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/17/24 13:45	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/17/24 13:45	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/17/24 13:45	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/17/24 13:45	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/17/24 13:45	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/17/24 13:45	1
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/17/24 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*03/17/24 13:45*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*03/17/24 13:45*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/17/24 13:45*	*1*

Lab Sample ID: LCS 680-827981/4
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04954		mg/L		99	70 - 130		
2-Butanone (MEK)			0.250	0.2791		mg/L		112	69 - 114		
Carbon tetrachloride			0.0500	0.04837		mg/L		97	70 - 130		
Chlorobenzene			0.0500	0.05235		mg/L		105	70 - 130		
Chloroform			0.0500	0.05204		mg/L		104	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05169		mg/L		103	70 - 130		
1,2-Dichloroethane			0.0500	0.05160		mg/L		103	70 - 130		
1,1-Dichloroethene			0.0500	0.04959		mg/L		99	70 - 130		
Hexachlorobutadiene			0.0500	0.05118		mg/L		102	70 - 130		
Tetrachloroethene			0.0500	0.04972		mg/L		99	70 - 130		
Trichloroethene			0.0500	0.05065		mg/L		101	70 - 130		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827981/4
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			0.0500	0.05265		mg/L		105	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-827981/5
Matrix: Solid
Analysis Batch: 827981

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
Benzene			0.0500	0.05072		mg/L		101	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2990	*+	mg/L		120	69 - 114	7	30
Carbon tetrachloride			0.0500	0.04834		mg/L		97	70 - 130	0	30
Chlorobenzene			0.0500	0.05101		mg/L		102	70 - 130	3	30
Chloroform			0.0500	0.05267		mg/L		105	70 - 130	1	30
1,4-Dichlorobenzene			0.0500	0.05002		mg/L		100	70 - 130	3	30
1,2-Dichloroethane			0.0500	0.05315		mg/L		106	70 - 130	3	50
1,1-Dichloroethene			0.0500	0.04997		mg/L		100	70 - 130	1	20
Hexachlorobutadiene			0.0500	0.04994		mg/L		100	70 - 130	2	20
Tetrachloroethene			0.0500	0.04884		mg/L		98	70 - 130	2	30
Trichloroethene			0.0500	0.05188		mg/L		104	70 - 130	2	30
Vinyl chloride			0.0500	0.05178		mg/L		104	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-827987/8
Matrix: Solid
Analysis Batch: 827987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000430		0.00100	0.000430	mg/L			03/17/24 13:12	1
2-Butanone (MEK)	<0.00340		0.0100	0.00340	mg/L			03/17/24 13:12	1
Carbon tetrachloride	<0.000330		0.00100	0.000330	mg/L			03/17/24 13:12	1
Chlorobenzene	<0.000260		0.00100	0.000260	mg/L			03/17/24 13:12	1
Chloroform	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:12	1
1,4-Dichlorobenzene	<0.000460		0.00100	0.000460	mg/L			03/17/24 13:12	1
1,2-Dichloroethane	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:12	1
1,1-Dichloroethene	<0.000360		0.00100	0.000360	mg/L			03/17/24 13:12	1
Hexachlorobutadiene	<0.00250		0.00500	0.00250	mg/L			03/17/24 13:12	1
Tetrachloroethene	<0.000750		0.00100	0.000750	mg/L			03/17/24 13:12	1
Trichloroethene	<0.000480		0.00100	0.000480	mg/L			03/17/24 13:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-827987/8
Matrix: Solid
Analysis Batch: 827987

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.000500		0.00100	0.000500	mg/L			03/17/24 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/17/24 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*03/17/24 13:12*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*03/17/24 13:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/17/24 13:12*	*1*

Lab Sample ID: LCS 680-827987/4
Matrix: Solid
Analysis Batch: 827987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05288		mg/L		106	70 - 130		
2-Butanone (MEK)			0.250	0.2400		mg/L		96	69 - 114		
Carbon tetrachloride			0.0500	0.04708		mg/L		94	70 - 130		
Chlorobenzene			0.0500	0.05214		mg/L		104	70 - 130		
Chloroform			0.0500	0.04525		mg/L		91	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05181		mg/L		104	70 - 130		
1,2-Dichloroethane			0.0500	0.04612		mg/L		92	70 - 130		
1,1-Dichloroethene			0.0500	0.05279		mg/L		106	70 - 130		
Hexachlorobutadiene			0.0500	0.05003		mg/L		100	70 - 130		
Tetrachloroethene			0.0500	0.04680		mg/L		94	70 - 130		
Trichloroethene			0.0500	0.04996		mg/L		100	70 - 130		
Vinyl chloride			0.0500	0.04747		mg/L		95	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*84*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Dibromofluoromethane (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 680-827987/5
Matrix: Solid
Analysis Batch: 827987

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
Benzene			0.0500	0.05275		mg/L		106	70 - 130	0	30
2-Butanone (MEK)			0.250	0.2488		mg/L		100	69 - 114	4	30
Carbon tetrachloride			0.0500	0.04733		mg/L		95	70 - 130	1	30
Chlorobenzene			0.0500	0.05146		mg/L		103	70 - 130	1	30
Chloroform			0.0500	0.04628		mg/L		93	70 - 130	2	30
1,4-Dichlorobenzene			0.0500	0.05099		mg/L		102	70 - 130	2	30
1,2-Dichloroethane			0.0500	0.04735		mg/L		95	70 - 130	3	50
1,1-Dichloroethene			0.0500	0.05256		mg/L		105	70 - 130	0	20
Hexachlorobutadiene			0.0500	0.05072		mg/L		101	70 - 130	1	20
Tetrachloroethene			0.0500	0.04691		mg/L		94	70 - 130	0	30
Trichloroethene			0.0500	0.04964		mg/L		99	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827987/5
Matrix: Solid
Analysis Batch: 827987

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
Vinyl chloride			0.0500	0.04639		mg/L		93	66 - 129	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*85*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Dibromofluoromethane (Surr)	*85*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 680-828063/9
Matrix: Solid
Analysis Batch: 828063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/18/24 12:34	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/18/24 12:34	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/18/24 12:34	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/18/24 12:34	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/18/24 12:34	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/18/24 12:34	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/18/24 12:34	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/18/24 12:34	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/18/24 12:34	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/18/24 12:34	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-828063/9
Matrix: Solid
Analysis Batch: 828063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/18/24 12:34	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/18/24 12:34	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/18/24 12:34	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/18/24 12:34	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/18/24 12:34	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/18/24 12:34	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/18/24 12:34	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/18/24 12:34	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/18/24 12:34	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/18/24 12:34	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/18/24 12:34	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/18/24 12:34	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/18/24 12:34	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/18/24 12:34	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/18/24 12:34	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/18/24 12:34	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/18/24 12:34	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/18/24 12:34	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/18/24 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/18/24 12:34	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/18/24 12:34	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/18/24 12:34	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/18/24 12:34	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/18/24 12:34	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/18/24 12:34	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/18/24 12:34	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/18/24 12:34	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/18/24 12:34	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/18/24 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*65 - 130*		*03/18/24 12:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*65 - 130*		*03/18/24 12:34*	*1*
Dibromofluoromethane (Surr)	*120*		*65 - 130*		*03/18/24 12:34*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*		*03/18/24 12:34*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-828063/5
Matrix: Solid
Analysis Batch: 828063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2473		mg/Kg		99	10 - 150
Bromobenzene	0.0500	0.04742		mg/Kg		95	70 - 130
Benzene	0.0500	0.05034		mg/Kg		101	70 - 130
Bromoform	0.0500	0.04076		mg/Kg		82	68 - 130
Bromomethane	0.0500	0.07823	*+	mg/Kg		156	70 - 130
2-Butanone (MEK)	0.250	0.2613		mg/Kg		105	40 - 150
Chlorobromomethane	0.0500	0.05375		mg/Kg		108	66 - 130
Carbon disulfide	0.0500	0.05581		mg/Kg		112	70 - 130
Carbon tetrachloride	0.0500	0.05354		mg/Kg		107	70 - 130
Chlorobenzene	0.0500	0.04748		mg/Kg		95	70 - 130
Chloroethane	0.0500	0.06999	*+	mg/Kg		140	70 - 130
Chloroform	0.0500	0.04873		mg/Kg		97	70 - 130
Chloromethane	0.0500	0.05534		mg/Kg		111	70 - 130
2-Chlorotoluene	0.0500	0.05013		mg/Kg		100	70 - 130
4-Chlorotoluene	0.0500	0.04964		mg/Kg		99	70 - 130
Chlorodibromomethane	0.0500	0.04619		mg/Kg		92	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.03848		mg/Kg		77	42 - 145
Dibromomethane	0.0500	0.05077		mg/Kg		102	59 - 142
1,2-Dichlorobenzene	0.0500	0.04788		mg/Kg		96	70 - 130
1,3-Dichlorobenzene	0.0500	0.04945		mg/Kg		99	70 - 130
1,4-Dichlorobenzene	0.0500	0.04909		mg/Kg		98	70 - 130
Dichlorobromomethane	0.0500	0.04923		mg/Kg		98	70 - 130
Dichlorodifluoromethane	0.0500	0.06140		mg/Kg		123	43 - 131
1,1-Dichloroethane	0.0500	0.05241		mg/Kg		105	70 - 130
1,2-Dichloroethane	0.0500	0.05377		mg/Kg		108	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04683		mg/Kg		94	70 - 130
1,1-Dichloroethene	0.0500	0.05136		mg/Kg		103	69 - 130
1,2-Dichloropropane	0.0500	0.04915		mg/Kg		98	70 - 130
1,3-Dichloropropane	0.0500	0.04859		mg/Kg		97	54 - 150
2,2-Dichloropropane	0.0500	0.05361		mg/Kg		107	70 - 130
1,1-Dichloropropene	0.0500	0.05070		mg/Kg		101	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04890		mg/Kg		98	70 - 130
Ethylene Dibromide	0.0500	0.04697		mg/Kg		94	48 - 150
Ethylbenzene	0.0500	0.05079		mg/Kg		102	70 - 130
Hexachlorobutadiene	0.0500	0.04867		mg/Kg		97	70 - 130
2-Hexanone	0.250	0.2636		mg/Kg		105	30 - 150
Iodomethane	0.0500	0.05725		mg/Kg		114	65 - 138
Isopropylbenzene	0.0500	0.05128		mg/Kg		103	70 - 130
4-Isopropyltoluene	0.0500	0.05385		mg/Kg		108	70 - 130
Methylene Chloride	0.0500	0.05193		mg/Kg		104	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2503		mg/Kg		100	34 - 150
Methyl tert-butyl ether	0.0500	0.04861		mg/Kg		97	70 - 130
Naphthalene	0.0500	0.04092		mg/Kg		82	46 - 150
n-Butylbenzene	0.0500	0.05511		mg/Kg		110	70 - 130
N-Propylbenzene	0.0500	0.05215		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0500	0.05301		mg/Kg		106	69 - 142
Styrene	0.0500	0.04943		mg/Kg		99	70 - 130
tert-Butylbenzene	0.0500	0.05163		mg/Kg		103	67 - 145

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-828063/5
Matrix: Solid
Analysis Batch: 828063

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	0.0500	0.04429		mg/Kg		89	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04591		mg/Kg		92	64 - 130
Tetrachloroethene	0.0500	0.04883		mg/Kg		98	70 - 130
Toluene	0.0500	0.05045		mg/Kg		101	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04717		mg/Kg		94	54 - 150
trans-1,2-Dichloroethene	0.0500	0.04632		mg/Kg		93	67 - 130
trans-1,3-Dichloropropene	0.0500	0.04782		mg/Kg		96	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04380		mg/Kg		88	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04492		mg/Kg		90	70 - 130
1,1,1-Trichloroethane	0.0500	0.05287		mg/Kg		106	70 - 130
o-Xylene	0.0500	0.04909		mg/Kg		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04810		mg/Kg		96	56 - 146
m-Xylene & p-Xylene	0.0500	0.04996		mg/Kg		100	70 - 130
Trichloroethene	0.0500	0.04733		mg/Kg		95	70 - 130
Trichlorofluoromethane	0.0500	0.05720		mg/Kg		114	70 - 130
1,2,3-Trichloropropane	0.0500	0.04475		mg/Kg		89	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05188		mg/Kg		104	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05221		mg/Kg		104	70 - 130
Hexane	0.0500	0.05344		mg/Kg		107	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05193		mg/Kg		104	70 - 130
n-Heptane	0.0500	0.05271		mg/Kg		105	70 - 130
Vinyl acetate	0.100	0.1167		mg/Kg		117	53 - 150
Vinyl chloride	0.0500	0.05617		mg/Kg		112	70 - 130
Xylenes, Total	0.100	0.09905		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*
Dibromofluoromethane (Surr)	*92*		*65 - 130*
4-Bromofluorobenzene (Surr)	*97*		*65 - 130*

Lab Sample ID: LCSD 680-828063/6
Matrix: Solid
Analysis Batch: 828063

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
Acetone	0.250	0.2942		mg/Kg		118	10 - 150	17	50
Bromobenzene	0.0500	0.04889		mg/Kg		98	70 - 130	3	30
Benzene	0.0500	0.05477		mg/Kg		110	70 - 130	8	30
Bromoform	0.0500	0.04484		mg/Kg		90	68 - 130	10	30
Bromomethane	0.0500	0.06334		mg/Kg		127	70 - 130	21	30
2-Butanone (MEK)	0.250	0.2982		mg/Kg		119	40 - 150	13	30
Chlorobromomethane	0.0500	0.05803		mg/Kg		116	66 - 130	8	30
Carbon disulfide	0.0500	0.05865		mg/Kg		117	70 - 130	5	30
Carbon tetrachloride	0.0500	0.05662		mg/Kg		113	70 - 130	6	30
Chlorobenzene	0.0500	0.05015		mg/Kg		100	70 - 130	5	30
Chloroethane	0.0500	0.05417		mg/Kg		108	70 - 130	25	30
Chloroform	0.0500	0.05381		mg/Kg		108	70 - 130	10	30

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-828063/6
Matrix: Solid
Analysis Batch: 828063

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
Chloromethane	0.0500	0.04974		mg/Kg		99	70 - 130	11	30
2-Chlorotoluene	0.0500	0.05013		mg/Kg		100	70 - 130	0	30
4-Chlorotoluene	0.0500	0.05092		mg/Kg		102	70 - 130	3	30
Chlorodibromomethane	0.0500	0.05252		mg/Kg		105	64 - 133	13	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04675		mg/Kg		93	42 - 145	19	30
Dibromomethane	0.0500	0.05516		mg/Kg		110	59 - 142	8	30
1,2-Dichlorobenzene	0.0500	0.05420		mg/Kg		108	70 - 130	12	30
1,3-Dichlorobenzene	0.0500	0.05403		mg/Kg		108	70 - 130	9	30
1,4-Dichlorobenzene	0.0500	0.05379		mg/Kg		108	70 - 130	9	30
Dichlorobromomethane	0.0500	0.05563		mg/Kg		111	70 - 130	12	30
Dichlorodifluoromethane	0.0500	0.05355		mg/Kg		107	43 - 131	14	30
1,1-Dichloroethane	0.0500	0.05723		mg/Kg		114	70 - 130	9	30
1,2-Dichloroethane	0.0500	0.05865		mg/Kg		117	68 - 139	9	30
cis-1,2-Dichloroethene	0.0500	0.05196		mg/Kg		104	70 - 130	10	30
1,1-Dichloroethene	0.0500	0.05631		mg/Kg		113	69 - 130	9	50
1,2-Dichloropropane	0.0500	0.05525		mg/Kg		110	70 - 130	12	30
1,3-Dichloropropane	0.0500	0.05489		mg/Kg		110	54 - 150	12	30
2,2-Dichloropropane	0.0500	0.05729		mg/Kg		115	70 - 130	7	30
1,1-Dichloropropene	0.0500	0.05347		mg/Kg		107	70 - 130	5	30
cis-1,3-Dichloropropene	0.0500	0.05451		mg/Kg		109	70 - 130	11	30
Ethylene Dibromide	0.0500	0.05230		mg/Kg		105	48 - 150	11	30
Ethylbenzene	0.0500	0.05176		mg/Kg		104	70 - 130	2	30
Hexachlorobutadiene	0.0500	0.04779		mg/Kg		96	70 - 130	2	30
2-Hexanone	0.250	0.2890		mg/Kg		116	30 - 150	9	30
Iodomethane	0.0500	0.06104		mg/Kg		122	65 - 138	6	30
Isopropylbenzene	0.0500	0.05046		mg/Kg		101	70 - 130	2	30
4-Isopropyltoluene	0.0500	0.05551		mg/Kg		111	70 - 130	3	30
Methylene Chloride	0.0500	0.05704		mg/Kg		114	54 - 149	9	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2855		mg/Kg		114	34 - 150	13	30
Methyl tert-butyl ether	0.0500	0.05606		mg/Kg		112	70 - 130	14	30
Naphthalene	0.0500	0.04542		mg/Kg		91	46 - 150	10	30
n-Butylbenzene	0.0500	0.05625		mg/Kg		112	70 - 130	2	30
N-Propylbenzene	0.0500	0.04977		mg/Kg		100	70 - 130	5	30
sec-Butylbenzene	0.0500	0.05150		mg/Kg		103	69 - 142	3	30
Styrene	0.0500	0.05183		mg/Kg		104	70 - 130	5	30
tert-Butylbenzene	0.0500	0.05134		mg/Kg		103	67 - 145	1	30
1,1,1,2-Tetrachloroethane	0.0500	0.04865		mg/Kg		97	70 - 130	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.05071		mg/Kg		101	64 - 130	10	30
Tetrachloroethene	0.0500	0.05048		mg/Kg		101	70 - 130	3	30
Toluene	0.0500	0.05340		mg/Kg		107	70 - 130	6	30
trans-1,4-Dichloro-2-butene	0.0500	0.05009		mg/Kg		100	54 - 150	6	30
trans-1,2-Dichloroethene	0.0500	0.04973		mg/Kg		99	67 - 130	7	30
trans-1,3-Dichloropropene	0.0500	0.05537		mg/Kg		111	54 - 150	15	30
1,2,3-Trichlorobenzene	0.0500	0.04910		mg/Kg		98	70 - 130	11	30
1,2,4-Trichlorobenzene	0.0500	0.04897		mg/Kg		98	70 - 130	9	30
1,1,1-Trichloroethane	0.0500	0.05747		mg/Kg		115	70 - 130	8	30
o-Xylene	0.0500	0.05138		mg/Kg		103	70 - 130	5	30
1,1,2-Trichloroethane	0.0500	0.05404		mg/Kg		108	56 - 146	12	30
m-Xylene & p-Xylene	0.0500	0.05101		mg/Kg		102	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-828063/6
Matrix: Solid
Analysis Batch: 828063

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
Trichloroethene			0.0500	0.05010		mg/Kg		100	70 - 130	6	30
Trichlorofluoromethane			0.0500	0.05293		mg/Kg		106	70 - 130	8	30
1,2,3-Trichloropropane			0.0500	0.05148		mg/Kg		103	64 - 130	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05422		mg/Kg		108	70 - 130	4	40
1,2,4-Trimethylbenzene			0.0500	0.05243		mg/Kg		105	70 - 130	0	30
Hexane			0.0500	0.05571		mg/Kg		111	70 - 130	4	30
1,3,5-Trimethylbenzene			0.0500	0.05192		mg/Kg		104	70 - 130	0	30
n-Heptane			0.0500	0.05421		mg/Kg		108	70 - 130	3	30
Vinyl acetate			0.100	0.1307		mg/Kg		131	53 - 150	11	30
Vinyl chloride			0.0500	0.04939		mg/Kg		99	70 - 130	13	30
Xylenes, Total			0.100	0.1024		mg/Kg		102	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 130*
Dibromofluoromethane (Surr)	*105*		*65 - 130*
4-Bromofluorobenzene (Surr)	*107*		*65 - 130*

Lab Sample ID: LB 680-827405/1-A
Matrix: Solid
Analysis Batch: 827735

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			03/15/24 13:32	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/15/24 13:32	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/15/24 13:32	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			03/15/24 13:32	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/15/24 13:32	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/15/24 13:32	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/15/24 13:32	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/15/24 13:32	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/15/24 13:32	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/15/24 13:32	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/15/24 13:32*	*20*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*03/15/24 13:32*	*20*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*03/15/24 13:32*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/24 13:32*	*20*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 680-827653/1-A
Matrix: Solid
Analysis Batch: 827981

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00860		0.0200	0.00860	mg/L			03/17/24 14:24	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			03/17/24 14:24	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			03/17/24 14:24	20
Chlorobenzene	0.005402	J	0.0200	0.00520	mg/L			03/17/24 14:24	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			03/17/24 14:24	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			03/17/24 14:24	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			03/17/24 14:24	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			03/17/24 14:24	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			03/17/24 14:24	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			03/17/24 14:24	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/17/24 14:24*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*03/17/24 14:24*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/17/24 14:24*	*20*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/17/24 14:24*	*20*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-826629/1-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.40		10.0	4.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Acetophenone	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
Anthracene	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Atrazine	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
bis (2-chloroisopropyl) ether	<3.10		10.0	3.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		03/08/24 17:25	03/09/24 14:46	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Caprolactam	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Carbazole	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		03/08/24 17:25	03/09/24 14:46	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-826629/1-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
Chrysene	<3.80		10.0	3.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 14:46	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
Fluoranthene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Fluorene	<3.40		10.0	3.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
Isophorone	<2.00		10.0	2.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		03/08/24 17:25	03/09/24 14:46	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
Naphthalene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Nitroaniline	<3.00		50.0	3.00	ug/L		03/08/24 17:25	03/09/24 14:46	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		03/08/24 17:25	03/09/24 14:46	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		03/08/24 17:25	03/09/24 14:46	1
Phenanthrene	<4.30		10.0	4.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
Phenol	<1.50		10.0	1.50	ug/L		03/08/24 17:25	03/09/24 14:46	1
Pyrene	<3.70		10.0	3.70	ug/L		03/08/24 17:25	03/09/24 14:46	1
Pyridine	<7.40		50.0	7.40	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		03/08/24 17:25	03/09/24 14:46	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		03/08/24 17:25	03/09/24 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*25 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 130*	*03/08/24 17:25*	*03/09/24 14:46*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-826629/1-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826629

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		30 - 130	03/08/24 17:25	03/09/24 14:46	1
Phenol-d5 (Surr)	30		10 - 130	03/08/24 17:25	03/09/24 14:46	1
Terphenyl-d14 (Surr)	92		35 - 131	03/08/24 17:25	03/09/24 14:46	1
2,4,6-Tribromophenol (Surr)	73		30 - 130	03/08/24 17:25	03/09/24 14:46	1

Lab Sample ID: LCS 680-826629/2-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	200	155.0		ug/L		78	48 - 130
Acenaphthylene	200	142.6		ug/L		71	48 - 130
Acetophenone	200	137.6		ug/L		69	44 - 130
Anthracene	200	171.9		ug/L		86	49 - 130
Atrazine	200	167.9		ug/L		84	39 - 130
Benzaldehyde	200	123.2		ug/L		62	14 - 130
Benzo[a]anthracene	200	168.3		ug/L		84	44 - 130
Benzo[a]pyrene	200	174.6		ug/L		87	44 - 130
Benzo[b]fluoranthene	200	183.0		ug/L		92	43 - 130
Benzo[g,h,i]perylene	200	173.1		ug/L		87	41 - 130
Benzo[k]fluoranthene	200	183.9		ug/L		92	40 - 130
1,1'-Biphenyl	200	140.0		ug/L		70	45 - 130
Bis(2-chloroethoxy)methane	200	135.5		ug/L		68	47 - 130
Bis(2-chloroethyl)ether	200	128.5		ug/L		64	32 - 130
bis (2-chloroisopropyl) ether	200	136.9		ug/L		68	26 - 130
Bis(2-ethylhexyl) phthalate	200	164.7		ug/L		82	45 - 130
4-Bromophenyl phenyl ether	200	149.9		ug/L		75	47 - 130
Butyl benzyl phthalate	200	167.1		ug/L		84	50 - 130
Caprolactam	200	48.46	*-	ug/L		24	26 - 130
Carbazole	200	167.3		ug/L		84	54 - 130
4-Chloroaniline	200	129.1		ug/L		65	42 - 130
4-Chloro-3-methylphenol	200	152.8		ug/L		76	47 - 130
2-Chloronaphthalene	200	137.2		ug/L		69	44 - 130
2-Chlorophenol	200	114.3		ug/L		57	39 - 130
4-Chlorophenyl phenyl ether	200	144.3		ug/L		72	45 - 130
Chrysene	200	176.7		ug/L		88	47 - 130
Dibenz(a,h)anthracene	200	177.2		ug/L		89	41 - 130
Dibenzofuran	200	144.5		ug/L		72	50 - 130
3,3'-Dichlorobenzidine	200	154.7		ug/L		77	46 - 130
2,4-Dichlorophenol	200	129.1		ug/L		65	44 - 130
Diethyl phthalate	200	172.8		ug/L		86	53 - 130
2,4-Dimethylphenol	200	122.1		ug/L		61	37 - 130
Dimethyl phthalate	200	162.8		ug/L		81	53 - 130
Di-n-butyl phthalate	200	173.6		ug/L		87	51 - 130
4,6-Dinitro-2-methylphenol	400	329.5		ug/L		82	42 - 130
2,4-Dinitrophenol	400	280.5		ug/L		70	31 - 130
2,4-Dinitrotoluene	200	162.5		ug/L		81	52 - 130
2,6-Dinitrotoluene	200	158.9		ug/L		79	52 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-826629/2-A
Matrix: Water
Analysis Batch: 826647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	200	153.8		ug/L		77	42 - 130
Fluoranthene	200	159.3		ug/L		80	47 - 130
Fluorene	200	152.0		ug/L		76	50 - 130
Hexachlorobenzene	200	162.6		ug/L		81	43 - 130
Hexachlorobutadiene	200	113.8		ug/L		57	27 - 130
Hexachlorocyclopentadiene	200	67.03		ug/L		34	11 - 130
Hexachloroethane	200	117.6		ug/L		59	29 - 130
Indeno[1,2,3-cd]pyrene	200	154.2		ug/L		77	31 - 130
Isophorone	200	148.4		ug/L		74	47 - 130
2-Methylnaphthalene	200	130.6		ug/L		65	40 - 130
2-Methylphenol	200	110.4		ug/L		55	40 - 130
3 & 4 Methylphenol	200	107.8		ug/L		54	42 - 130
Naphthalene	200	127.8		ug/L		64	39 - 130
2-Nitroaniline	200	186.5		ug/L		93	51 - 130
3-Nitroaniline	200	161.4		ug/L		81	53 - 130
4-Nitroaniline	200	176.3		ug/L		88	49 - 130
Nitrobenzene	200	135.2		ug/L		68	43 - 130
2-Nitrophenol	200	113.6		ug/L		57	43 - 130
4-Nitrophenol	400	170.7		ug/L		43	13 - 130
N-Nitrosodi-n-propylamine	200	143.0		ug/L		71	42 - 130
N-Nitrosodiphenylamine	200	158.2		ug/L		79	50 - 130
Pentachlorophenol	400	363.1		ug/L		91	33 - 130
Phenanthrene	200	172.9		ug/L		86	51 - 130
Phenol	200	58.87		ug/L		29	14 - 130
Pyrene	200	166.8		ug/L		83	52 - 130
Pyridine	400	54.67		ug/L		14	10 - 130
2,4,5-Trichlorophenol	200	140.6		ug/L		70	48 - 130
2,4,6-Trichlorophenol	200	137.1		ug/L		69	47 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*
Phenol-d5 (Surr)	*26*		*10 - 130*
Terphenyl-d14 (Surr)	*79*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Acenaphthylene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Acetophenone	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Anthracene	<0.0244		0.322	0.0244	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Atrazine	<0.0224		0.322	0.0224	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzaldehyde	<0.0566		0.322	0.0566	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[a]pyrene	<0.0507		0.322	0.0507	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[b]fluoranthene	<0.0371		0.322	0.0371	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[g,h,i]perylene	<0.0215		0.322	0.0215	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Benzo[k]fluoranthene	<0.0634		0.322	0.0634	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-chloroethoxy)methane	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-chloroethyl)ether	<0.0439		0.322	0.0439	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
bis (2-chloroisopropyl) ether	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Bis(2-ethylhexyl) phthalate	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Bromophenyl phenyl ether	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Butyl benzyl phthalate	<0.0254		0.322	0.0254	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Caprolactam	<0.0644		0.322	0.0644	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Carbazole	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chloroaniline	<0.0507		0.644	0.0507	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chloro-3-methylphenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Chloronaphthalene	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Chlorophenol	<0.0390		0.322	0.0390	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Chlorophenyl phenyl ether	<0.0429		0.322	0.0429	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Chrysene	<0.0205		0.322	0.0205	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dibenz(a,h)anthracene	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dibenzofuran	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3,3'-Dichlorobenzidine	<0.0273		0.644	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Diethyl phthalate	<0.0361		0.322	0.0361	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dimethylphenol	<0.0429		0.322	0.0429	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Dimethyl phthalate	<0.0332		0.322	0.0332	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Di-n-butyl phthalate	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dinitrophenol	<0.810		1.66	0.810	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4-Dinitrotoluene	<0.0478		0.322	0.0478	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,6-Dinitrotoluene	<0.0410		0.322	0.0410	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Di-n-octyl phthalate	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Fluoranthene	<0.0312		0.322	0.0312	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Fluorene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorobenzene	<0.0381		0.322	0.0381	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorobutadiene	<0.0351		0.322	0.0351	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachlorocyclopentadiene	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Hexachloroethane	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Indeno[1,2,3-cd]pyrene	<0.0273		0.322	0.0273	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Isophorone	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Methylnaphthalene	<0.0371		0.322	0.0371	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Methylphenol	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3 & 4 Methylphenol	<0.0420		0.322	0.0420	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Naphthalene	<0.0293		0.322	0.0293	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2-Nitroaniline	<0.0439		1.66	0.0439	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
3-Nitroaniline	<0.0449		1.66	0.0449	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Nitroaniline	<0.0478		1.66	0.0478	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Nitrobenzene	<0.0254		0.322	0.0254	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-826806/19-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 826806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<0.0400		0.322	0.0400	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
4-Nitrophenol	<0.322		1.66	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
N-Nitrosodi-n-propylamine	<0.0312		0.322	0.0312	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
N-Nitrosodiphenylamine	<0.0322		0.322	0.0322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pentachlorophenol	<0.322		1.66	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Phenanthrene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Phenol	<0.0332		0.322	0.0332	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pyrene	<0.0264		0.322	0.0264	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
Pyridine	<0.322		0.644	0.322	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4,5-Trichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/11/24 10:45	03/11/24 18:42	1
2,4,6-Trichlorophenol	<0.0283		0.322	0.0283	mg/Kg		03/11/24 10:45	03/11/24 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
2-Fluorophenol (Surr)	*54*		*18 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Nitrobenzene-d5 (Surr)	*58*		*19 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Phenol-d5 (Surr)	*56*		*21 - 130*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
Terphenyl-d14 (Surr)	*68*		*31 - 133*	*03/11/24 10:45*	*03/11/24 18:42*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*21 - 132*	*03/11/24 10:45*	*03/11/24 18:42*	*1*

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.44	5.082		mg/Kg		79	33 - 130
Acenaphthylene	6.44	4.805		mg/Kg		75	34 - 130
Acetophenone	6.44	4.376		mg/Kg		68	28 - 130
Anthracene	6.44	5.174		mg/Kg		80	39 - 130
Atrazine	6.44	5.132		mg/Kg		80	27 - 130
Benzaldehyde	6.44	1.352		mg/Kg		21	10 - 130
Benzo[a]anthracene	6.44	5.280		mg/Kg		82	40 - 130
Benzo[a]pyrene	6.44	5.362		mg/Kg		83	37 - 131
Benzo[b]fluoranthene	6.44	5.315		mg/Kg		83	35 - 130
Benzo[g,h,i]perylene	6.44	5.562		mg/Kg		86	39 - 130
Benzo[k]fluoranthene	6.44	5.441		mg/Kg		84	35 - 130
1,1'-Biphenyl	6.44	4.745		mg/Kg		74	32 - 130
Bis(2-chloroethoxy)methane	6.44	4.384		mg/Kg		68	29 - 130
Bis(2-chloroethyl)ether	6.44	4.017		mg/Kg		62	18 - 130
bis (2-chloroisopropyl) ether	6.44	3.762		mg/Kg		58	12 - 130
Bis(2-ethylhexyl) phthalate	6.44	5.211		mg/Kg		81	39 - 130
4-Bromophenyl phenyl ether	6.44	4.801		mg/Kg		75	32 - 130
Butyl benzyl phthalate	6.44	5.360		mg/Kg		83	38 - 130
Caprolactam	6.44	5.068		mg/Kg		79	27 - 148
Carbazole	6.44	5.322		mg/Kg		83	43 - 130
4-Chloroaniline	6.44	4.125		mg/Kg		64	10 - 130
4-Chloro-3-methylphenol	6.44	4.967		mg/Kg		77	31 - 130
2-Chloronaphthalene	6.44	4.681		mg/Kg		73	30 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	6.44	4.247		mg/Kg		66	28 - 130
4-Chlorophenyl phenyl ether	6.44	4.963		mg/Kg		77	32 - 130
Chrysene	6.44	5.235		mg/Kg		81	40 - 130
Dibenz(a,h)anthracene	6.44	5.450		mg/Kg		85	37 - 130
Dibenzofuran	6.44	4.749		mg/Kg		74	34 - 130
3,3'-Dichlorobenzidine	6.44	4.776		mg/Kg		74	10 - 130
2,4-Dichlorophenol	6.44	4.946		mg/Kg		77	30 - 130
Diethyl phthalate	6.44	5.138		mg/Kg		80	36 - 130
2,4-Dimethylphenol	6.44	4.388		mg/Kg		68	34 - 130
Dimethyl phthalate	6.44	4.941		mg/Kg		77	36 - 130
Di-n-butyl phthalate	6.44	5.393		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	12.9	11.22		mg/Kg		87	22 - 130
2,4-Dinitrophenol	12.9	9.487		mg/Kg		74	10 - 130
2,4-Dinitrotoluene	6.44	6.097		mg/Kg		95	34 - 130
2,6-Dinitrotoluene	6.44	5.536		mg/Kg		86	33 - 130
Di-n-octyl phthalate	6.44	5.336		mg/Kg		83	38 - 131
Fluoranthene	6.44	5.345		mg/Kg		83	38 - 130
Fluorene	6.44	4.936		mg/Kg		77	34 - 130
Hexachlorobenzene	6.44	5.044		mg/Kg		78	28 - 130
Hexachlorobutadiene	6.44	4.279		mg/Kg		66	22 - 130
Hexachlorocyclopentadiene	6.44	3.240		mg/Kg		50	11 - 130
Hexachloroethane	6.44	3.927		mg/Kg		61	21 - 130
Indeno[1,2,3-cd]pyrene	6.44	5.356		mg/Kg		83	40 - 130
Isophorone	6.44	4.403		mg/Kg		68	26 - 130
2-Methylnaphthalene	6.44	4.507		mg/Kg		70	28 - 130
2-Methylphenol	6.44	4.349		mg/Kg		68	30 - 130
3 & 4 Methylphenol	6.44	4.539		mg/Kg		70	31 - 130
Naphthalene	6.44	4.373		mg/Kg		68	25 - 130
2-Nitroaniline	6.44	5.261		mg/Kg		82	26 - 130
3-Nitroaniline	6.44	5.329		mg/Kg		83	10 - 130
4-Nitroaniline	6.44	5.791		mg/Kg		90	25 - 130
Nitrobenzene	6.44	4.462		mg/Kg		69	25 - 130
2-Nitrophenol	6.44	4.798		mg/Kg		75	24 - 130
4-Nitrophenol	12.9	12.30		mg/Kg		96	25 - 130
N-Nitrosodi-n-propylamine	6.44	3.962		mg/Kg		62	24 - 130
N-Nitrosodiphenylamine	6.44	5.167		mg/Kg		80	37 - 130
Pentachlorophenol	12.9	11.22		mg/Kg		87	16 - 135
Phenanthrene	6.44	5.064		mg/Kg		79	38 - 130
Phenol	6.44	4.308		mg/Kg		67	27 - 130
Pyrene	6.44	5.457		mg/Kg		85	40 - 130
Pyridine	12.9	4.498		mg/Kg		35	10 - 130
2,4,5-Trichlorophenol	6.44	5.117		mg/Kg		79	33 - 130
2,4,6-Trichlorophenol	6.44	5.188		mg/Kg		81	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*
2-Fluorophenol (Surr)	*61*		*18 - 130*
Nitrobenzene-d5 (Surr)	*64*		*19 - 130*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-826806/20-A
Matrix: Solid
Analysis Batch: 826937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 826806

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*64*		*21 - 130*
Terphenyl-d14 (Surr)	*76*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*80*		*21 - 132*

Lab Sample ID: MB 680-827696/1-A
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00320		0.0100	0.00320	mg/L		03/15/24 07:58	03/15/24 15:21	1
2,4-Dinitrotoluene	<0.00240		0.0100	0.00240	mg/L		03/15/24 07:58	03/15/24 15:21	1
Hexachlorobenzene	<0.00160		0.0100	0.00160	mg/L		03/15/24 07:58	03/15/24 15:21	1
Hexachlorobutadiene	<0.00400		0.0100	0.00400	mg/L		03/15/24 07:58	03/15/24 15:21	1
Hexachloroethane	<0.00360		0.0100	0.00360	mg/L		03/15/24 07:58	03/15/24 15:21	1
2-Methylphenol	<0.00180		0.0100	0.00180	mg/L		03/15/24 07:58	03/15/24 15:21	1
3 & 4 Methylphenol	<0.00140		0.0100	0.00140	mg/L		03/15/24 07:58	03/15/24 15:21	1
Nitrobenzene	<0.00360		0.0100	0.00360	mg/L		03/15/24 07:58	03/15/24 15:21	1
Pentachlorophenol	<0.0100		0.0500	0.0100	mg/L		03/15/24 07:58	03/15/24 15:21	1
Pyridine	<0.00740		0.0500	0.00740	mg/L		03/15/24 07:58	03/15/24 15:21	1
2,4,5-Trichlorophenol	<0.00320		0.0100	0.00320	mg/L		03/15/24 07:58	03/15/24 15:21	1
2,4,6-Trichlorophenol	<0.00220		0.0100	0.00220	mg/L		03/15/24 07:58	03/15/24 15:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
2-Fluorophenol (Surr)	*31*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
Phenol-d5 (Surr)	*21*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
Terphenyl-d14 (Surr)	*69*		*35 - 131*	*03/15/24 07:58*	*03/15/24 15:21*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:21*	*1*

Lab Sample ID: LCS 680-827696/2-A
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.200	0.1019		mg/L		51	13 - 130
2,4-Dinitrotoluene	0.200	0.1723		mg/L		86	37 - 130
Hexachlorobenzene	0.200	0.1402		mg/L		70	30 - 130
Hexachlorobutadiene	0.200	0.09613		mg/L		48	12 - 130
Hexachloroethane	0.200	0.09080		mg/L		45	12 - 130
2-Methylphenol	0.200	0.1115		mg/L		56	21 - 130
3 & 4 Methylphenol	0.200	0.1048		mg/L		52	19 - 130
Nitrobenzene	0.200	0.1229		mg/L		61	32 - 130
Pentachlorophenol	0.400	0.2934		mg/L		73	24 - 130
Pyridine	0.400	0.07924		mg/L		20	10 - 130
2,4,5-Trichlorophenol	0.200	0.1459		mg/L		73	26 - 130
2,4,6-Trichlorophenol	0.200	0.1435		mg/L		72	28 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-827696/2-A
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827696

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*25 - 130*
2-Fluorophenol (Surr)	*31*		*10 - 130*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*
Phenol-d5 (Surr)	*22*		*10 - 130*
Terphenyl-d14 (Surr)	*63*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*72*		*30 - 130*

Lab Sample ID: LB1 680-827406/1-D
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 827696

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 15:46	1
2,4-Dinitrotoluene	<0.0120		0.0500	0.0120	mg/L		03/15/24 07:58	03/15/24 15:46	1
Hexachlorobenzene	<0.00800		0.0500	0.00800	mg/L		03/15/24 07:58	03/15/24 15:46	1
Hexachlorobutadiene	<0.0200		0.0500	0.0200	mg/L		03/15/24 07:58	03/15/24 15:46	1
Hexachloroethane	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 15:46	1
2-Methylphenol	<0.00900		0.0500	0.00900	mg/L		03/15/24 07:58	03/15/24 15:46	1
3 & 4 Methylphenol	<0.00700		0.0500	0.00700	mg/L		03/15/24 07:58	03/15/24 15:46	1
Nitrobenzene	<0.0180		0.0500	0.0180	mg/L		03/15/24 07:58	03/15/24 15:46	1
Pentachlorophenol	<0.0500		0.250	0.0500	mg/L		03/15/24 07:58	03/15/24 15:46	1
Pyridine	<0.0370		0.250	0.0370	mg/L		03/15/24 07:58	03/15/24 15:46	1
2,4,5-Trichlorophenol	<0.0160		0.0500	0.0160	mg/L		03/15/24 07:58	03/15/24 15:46	1
2,4,6-Trichlorophenol	<0.0110		0.0500	0.0110	mg/L		03/15/24 07:58	03/15/24 15:46	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*25 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
2-Fluorophenol (Surr)	*25*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
Phenol-d5 (Surr)	*16*		*10 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
Terphenyl-d14 (Surr)	*67*		*35 - 131*	*03/15/24 07:58*	*03/15/24 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*30 - 130*	*03/15/24 07:58*	*03/15/24 15:46*	*1*

Lab Sample ID: 680-247630-6 MS
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: NH-14
Prep Type: TCLP
Prep Batch: 827696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<0.0160		1.00	0.5223		mg/L		52	13 - 130
2,4-Dinitrotoluene	<0.0120		1.00	0.9467		mg/L		95	37 - 130
Hexachlorobenzene	<0.00800		1.00	0.7605		mg/L		76	30 - 130
Hexachlorobutadiene	<0.0200		1.00	0.5326		mg/L		53	12 - 130
Hexachloroethane	<0.0180		1.00	0.4892		mg/L		49	12 - 130
2-Methylphenol	<0.00900		1.00	0.5622		mg/L		56	21 - 130
3 & 4 Methylphenol	<0.00700		1.00	0.5384		mg/L		54	19 - 130
Nitrobenzene	<0.0180		1.00	0.6356		mg/L		64	32 - 130
Pentachlorophenol	<0.0500		2.00	1.542		mg/L		77	24 - 130
Pyridine	<0.0370	F1 F2	2.00	0.4808		mg/L		24	10 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-247630-6 MS
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: NH-14
Prep Type: TCLP
Prep Batch: 827696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	<0.0160		1.00	0.8036		mg/L		80	26 - 130
2,4,6-Trichlorophenol	<0.0110		1.00	0.7868		mg/L		79	28 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*
Phenol-d5 (Surr)	*22*		*10 - 130*
Terphenyl-d14 (Surr)	*72*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*79*		*30 - 130*

Lab Sample ID: 680-247630-6 MSD
Matrix: Solid
Analysis Batch: 827816

Client Sample ID: NH-14
Prep Type: TCLP
Prep Batch: 827696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.0160		1.00	0.5124		mg/L		51	13 - 130	2	50
2,4-Dinitrotoluene	<0.0120		1.00	0.9853		mg/L		99	37 - 130	4	50
Hexachlorobenzene	<0.00800		1.00	0.7473		mg/L		75	30 - 130	2	50
Hexachlorobutadiene	<0.0200		1.00	0.5209		mg/L		52	12 - 130	2	50
Hexachloroethane	<0.0180		1.00	0.4880		mg/L		49	12 - 130	0	50
2-Methylphenol	<0.00900		1.00	0.5505		mg/L		55	21 - 130	2	50
3 & 4 Methylphenol	<0.00700		1.00	0.5286		mg/L		53	19 - 130	2	50
Nitrobenzene	<0.0180		1.00	0.6265		mg/L		63	32 - 130	1	50
Pentachlorophenol	<0.0500		2.00	1.685		mg/L		84	24 - 130	9	50
Pyridine	<0.0370	F1 F2	2.00	0.1153	J F1 F2	mg/L		6	10 - 130	123	50
2,4,5-Trichlorophenol	<0.0160		1.00	0.7682		mg/L		77	26 - 130	5	50
2,4,6-Trichlorophenol	<0.0110		1.00	0.7732		mg/L		77	28 - 130	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*
Phenol-d5 (Surr)	*23*		*10 - 130*
Terphenyl-d14 (Surr)	*71*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*81*		*30 - 130*

GC/MS VOA

Analysis Batch: 826226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-7	Field Blank - 20240305	Total/NA	Water	8260D	
680-247630-8	Equipment Blank - 20240305	Total/NA	Water	8260D	
680-247630-9	Trip Blank	Total/NA	Water	8260D	
MB 680-826226/10	Method Blank	Total/NA	Water	8260D	
LCS 680-826226/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-826226/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Prep Batch: 826866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	5035A	
680-247630-2	WOTA-BS-05	Total/NA	Solid	5035A	
680-247630-3	WOTA-BS-06	Total/NA	Solid	5035A	

Leach Batch: 827405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-4	NH-14a	TCLP	Solid	1311	
LB 680-827405/1-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 827653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-5	NH-14b	TCLP	Solid	1311	
LB 680-827653/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 827731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-827731/11	Method Blank	Total/NA	Solid	8260D	
LCS 680-827731/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827731/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-4	NH-14a	TCLP	Solid	8260D	827405
LB 680-827405/1-A	Method Blank	TCLP	Solid	8260D	827405
MB 680-827735/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-827735/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827735/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-827653/1-A	Method Blank	TCLP	Solid	8260D	827653
MB 680-827981/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-827981/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827981/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-5	NH-14b	TCLP	Solid	8260D	827653
MB 680-827987/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-827987/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827987/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS VOA

Analysis Batch: 828063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	8260D	826866
680-247630-2	WOTA-BS-05	Total/NA	Solid	8260D	826866
680-247630-3	WOTA-BS-06	Total/NA	Solid	8260D	826866
MB 680-828063/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-828063/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-828063/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 826629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-7	Field Blank - 20240305	Total/NA	Water	3510C	
680-247630-8	Equipment Blank - 20240305	Total/NA	Water	3510C	
MB 680-826629/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-826629/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 826647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-7	Field Blank - 20240305	Total/NA	Water	8270E	826629
680-247630-8	Equipment Blank - 20240305	Total/NA	Water	8270E	826629
MB 680-826629/1-A	Method Blank	Total/NA	Water	8270E	826629
LCS 680-826629/2-A	Lab Control Sample	Total/NA	Water	8270E	826629

Prep Batch: 826806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	3546	
680-247630-2	WOTA-BS-05	Total/NA	Solid	3546	
680-247630-3	WOTA-BS-06	Total/NA	Solid	3546	
680-247630-6	NH-14	Total/NA	Solid	3546	
MB 680-826806/19-A	Method Blank	Total/NA	Solid	3546	
LCS 680-826806/20-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 826937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	8270E	826806
680-247630-2	WOTA-BS-05	Total/NA	Solid	8270E	826806
680-247630-3	WOTA-BS-06	Total/NA	Solid	8270E	826806
680-247630-6	NH-14	Total/NA	Solid	8270E	826806
MB 680-826806/19-A	Method Blank	Total/NA	Solid	8270E	826806
LCS 680-826806/20-A	Lab Control Sample	Total/NA	Solid	8270E	826806

Leach Batch: 827406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-6	NH-14	TCLP	Solid	1311	
LB1 680-827406/1-D	Method Blank	TCLP	Solid	1311	
680-247630-6 MS	NH-14	TCLP	Solid	1311	
680-247630-6 MSD	NH-14	TCLP	Solid	1311	

Prep Batch: 827696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-6	NH-14	TCLP	Solid	3510C	827406

GC/MS Semi VOA (Continued)

Prep Batch: 827696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB1 680-827406/1-D	Method Blank	TCLP	Solid	3510C	827406
MB 680-827696/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 680-827696/2-A	Lab Control Sample	Total/NA	Solid	3510C	
680-247630-6 MS	NH-14	TCLP	Solid	3510C	827406
680-247630-6 MSD	NH-14	TCLP	Solid	3510C	827406

Analysis Batch: 827816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-6	NH-14	TCLP	Solid	8270E	827696
LB1 680-827406/1-D	Method Blank	TCLP	Solid	8270E	827696
MB 680-827696/1-A	Method Blank	Total/NA	Solid	8270E	827696
LCS 680-827696/2-A	Lab Control Sample	Total/NA	Solid	8270E	827696
680-247630-6 MS	NH-14	TCLP	Solid	8270E	827696
680-247630-6 MSD	NH-14	TCLP	Solid	8270E	827696

General Chemistry

Analysis Batch: 826497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247630-1	WOTA-BS-04	Total/NA	Solid	Moisture	
680-247630-2	WOTA-BS-05	Total/NA	Solid	Moisture	
680-247630-3	WOTA-BS-06	Total/NA	Solid	Moisture	
680-247630-6	NH-14	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-BS-04
Date Collected: 03/05/24 09:50
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-1
Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.104 g	5 mL	826866	03/11/24 10:52	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	828063	03/18/24 14:07	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.66 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 21:14	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WOTA-BS-05
Date Collected: 03/05/24 09:55
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-2
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.867 g	5 mL	826866	03/11/24 10:52	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	828063	03/18/24 14:29	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.64 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 21:39	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: WOTA-BS-06
Date Collected: 03/05/24 10:00
Date Received: 03/06/24 10:17

Lab Sample ID: 680-247630-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: WOTA-BS-06

Lab Sample ID: 680-247630-3
Date Collected: 03/05/24 10:00
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.616 g	5 mL	826866	03/11/24 10:52	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	828063	03/18/24 14:51	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.41 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 22:05	T1C	EET SAV
	Instrument ID: CMST									

Client Sample ID: NH-14a

Lab Sample ID: 680-247630-4
Date Collected: 03/05/24 10:20
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827405	03/13/24 22:30	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827735	03/15/24 14:36	AA	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: NH-14b

Lab Sample ID: 680-247630-5
Date Collected: 03/05/24 10:25
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	827653	03/14/24 21:45	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	827987	03/17/24 15:43	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: NH-14

Lab Sample ID: 680-247630-6
Date Collected: 03/05/24 10:20
Matrix: Solid
Date Received: 03/06/24 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.09 g	2000 mL	827406	03/13/24 22:30	JJ	EET SAV
TCLP	Prep	3510C			100 mL	1 mL	827696	03/15/24 07:58	DS	EET SAV
TCLP	Analysis	8270E		1	1 mL	1 mL	827816	03/15/24 17:54	OK	EET SAV
	Instrument ID: CMST									
Total/NA	Analysis	Moisture		1			826497	03/08/24 10:55	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: NH-14

Lab Sample ID: 680-247630-6
Date Collected: 03/05/24 10:20
Matrix: Solid
Date Received: 03/06/24 10:17
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.35 g	1 mL	826806	03/11/24 10:45	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826937	03/11/24 22:30	T1C	EET SAV
	Instrument ID: CMST									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Client Sample ID: Field Blank - 20240305

Lab Sample ID: 680-247630-7

Date Collected: 03/05/24 12:30
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 16:22	MLL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Prep	3510C			500.6 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 18:42	T1C	EET SAV
	Instrument ID: CMSK									

Client Sample ID: Equipment Blank - 20240305

Lab Sample ID: 680-247630-8

Date Collected: 03/05/24 12:40
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 16:44	MLL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Prep	3510C			500.2 mL	1 mL	826629	03/08/24 17:25	RR	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	826647	03/09/24 19:09	T1C	EET SAV
	Instrument ID: CMSK									

Client Sample ID: Trip Blank

Lab Sample ID: 680-247630-9

Date Collected: 03/05/24 00:00
Matrix: Water
Date Received: 03/06/24 10:17

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	826226	03/07/24 17:06	MLL	EET SAV
	Instrument ID: CMSAB									

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: 680-247630-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247630-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
1311	TCLP Extraction	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154780-55565.1
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	A		
WOTA-BS-04	3/5/24	9:50	G	S			X	X			
WOTA-BS-05		9:55	G				X	X			
WOTA-BS-06		10:00	G				X	X			
NH-14a		10:20	G				X	X			
NH-14b		10:25	G				X	X			
NH-14		10:20	C					X			
WOTA-MSD-20240305		11:20	G				X	X			collected from WOTA-SS-06(B)
WOTA-MS-20240305		11:30	G				X	X			
Field Blank-20240305		12:30	G	W				X	X		
Equipment Blank-20240305		12:40	G	W				X	X		
Trip Blank									X		on hold

680-247630 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
	[signature]	3/5/24 18:30		[signature]	3-6-24 1017	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	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: 1.4/1.4

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-766079.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 680-247630-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 3/13/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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 - Client ID (Lab ID)	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)	8260D/5035A_FP VOCs-NC 02L List - Soil	Special Instructions/Note:
			Preservation Code:					
WOTA-BS-04 (680-247630-1)	3/5/24	09:50 Eastern		Solid			X	
WOTA-BS-05 (680-247630-2)	3/5/24	09:55 Eastern		Solid			X	
WOTA-BS-06 (680-247630-3)	3/5/24	10:00 Eastern		Solid			X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/13/24 1600		BP	3/14/24 1002	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 1.1°C 1.8°C IR11

Ver: 06/08/2021

3/18/2024

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247630-1

Login Number: 247630
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/15/2024 5:23:23 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247827-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

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.
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, high biased.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247827-1	WAP-SS-01 (4)	Solid	03/08/24 08:20	03/09/24 09:33
680-247827-2	WAP-SS-01 (8)	Solid	03/08/24 08:25	03/09/24 09:33
680-247827-3	WAP-SS-02 (4)	Solid	03/08/24 08:30	03/09/24 09:33
680-247827-4	WAP-SS-02 (8)	Solid	03/08/24 08:35	03/09/24 09:33
680-247827-5	WAP-BS-01	Solid	03/08/24 09:20	03/09/24 09:33
680-247827-6	WAP-BS-02	Solid	03/08/24 09:25	03/09/24 09:33
680-247827-7	WAP-DUP-20240308	Solid	03/08/24 00:00	03/09/24 09:33
680-247827-8	Trip Blank - 20240308a	Water	03/08/24 00:00	03/09/24 09:33

Job ID: 680-247827-1 Eurofins Savannah

Job Narrative
680-247827-1

Receipt
The samples were received on 3/9/2024 9:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-826833 recovered outside control limits for the following analytes: Chloromethane, Dichlorodifluoromethane, Trichlorofluoromethane and Vinyl chloride. 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 and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-826833 recovered outside control limits for the following analyte: 1,2-Dibromo-3-Chloropropane. These results have been reported and qualified.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-827257 recovered outside control limits for the following analyte: Vinyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-827257 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Surrogate recovery for the following sample was outside control limits: WAP-SS-01 (4) (680-247827-1). Evidence of matrix interferences is not obvious.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-827454 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (4)
Date Collected: 03/08/24 08:20
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-1
Matrix: Solid
Percent Solids: 76.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0258**	**J**	0.0529	0.0116	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Benzene	<0.00254		0.00529	0.00254	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Bromobenzene	<0.00180		0.00529	0.00180	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Chlorobromomethane	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Dichlorobromomethane	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Bromoform	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Bromomethane	<0.00254	*+	0.00529	0.00254	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
2-Butanone (MEK)	<0.00973		0.0264	0.00973	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
n-Butylbenzene	<0.00201		0.00529	0.00201	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
sec-Butylbenzene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
tert-Butylbenzene	<0.00264		0.00529	0.00264	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Carbon disulfide	<0.00222		0.00529	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Carbon tetrachloride	<0.00222		0.00529	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Chlorobenzene	<0.00148		0.00529	0.00148	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Chloroethane	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Chloroform	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Chloromethane	<0.00254		0.00529	0.00254	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
2-Chlorotoluene	<0.00243		0.00529	0.00243	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
4-Chlorotoluene	<0.00222		0.00529	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Chlorodibromomethane	<0.00222		0.00529	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2-Dibromo-3-Chloropropane	<0.00169		0.0106	0.00169	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Ethylene Dibromide	<0.00180		0.00529	0.00180	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Dibromomethane	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2-Dichlorobenzene	<0.00180		0.00529	0.00180	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,3-Dichlorobenzene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,4-Dichlorobenzene	<0.00190		0.00529	0.00190	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
trans-1,4-Dichloro-2-butene	<0.00254		0.0106	0.00254	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Dichlorodifluoromethane	<0.00338		0.00529	0.00338	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1-Dichloroethane	<0.00307		0.00529	0.00307	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2-Dichloroethane	<0.00243		0.00529	0.00243	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
cis-1,2-Dichloroethene	**0.0127**		0.00529	0.00307	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
trans-1,2-Dichloroethene	<0.00243		0.00529	0.00243	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1-Dichloroethene	<0.00381		0.00529	0.00381	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2-Dichloropropane	<0.00275		0.00529	0.00275	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,3-Dichloropropane	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
2,2-Dichloropropane	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1-Dichloropropene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
cis-1,3-Dichloropropene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
trans-1,3-Dichloropropene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Ethylbenzene	<0.00222		0.00529	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Hexachlorobutadiene	<0.00434		0.00529	0.00434	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
2-Hexanone	<0.0201		0.0264	0.0201	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Iodomethane	<0.00180		0.00529	0.00180	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Isopropylbenzene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
4-Isopropyltoluene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Methylene Chloride	<0.00846		0.0106	0.00846	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0190		0.0264	0.0190	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Methyl tert-butyl ether	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Naphthalene	<0.00328		0.00529	0.00328	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1

Client Sample ID: WAP-SS-01 (4)
Date Collected: 03/08/24 08:20
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-1
Matrix: Solid
Percent Solids: 76.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Styrene	<0.00201		0.00529	0.00201	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1,1,2-Tetrachloroethane	<0.00137		0.00529	0.00137	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1,2,2-Tetrachloroethane	<0.00222		0.00529	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Toluene	<0.00275		0.00529	0.00275	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2,3-Trichlorobenzene	<0.00211		0.00529	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2,4-Trichlorobenzene	<0.00264		0.00529	0.00264	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1,1-Trichloroethane	<0.00275		0.00529	0.00275	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,1,2-Trichloroethane	<0.00159		0.00529	0.00159	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Trichloroethene	**0.0525**		0.00529	0.00190	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Trichlorofluoromethane	<0.00328		0.00529	0.00328	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2,3-Trichloropropane	<0.00190		0.00529	0.00190	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,2,4-Trimethylbenzene	<0.00264		0.00529	0.00264	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
1,3,5-Trimethylbenzene	<0.00254		0.00529	0.00254	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Vinyl acetate	<0.00582	*+	0.0106	0.00582	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Vinyl chloride	<0.00296		0.00529	0.00296	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
o-Xylene	<0.00243		0.00529	0.00243	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
m-Xylene & p-Xylene	<0.00233		0.00529	0.00233	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Xylenes, Total	<0.00381		0.0106	0.00381	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Isopropyl ether	<0.00159		0.0106	0.00159	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Hexane	<0.00180		0.00529	0.00180	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
n-Heptane	<0.00455		0.00529	0.00455	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1
Ethyl acetate	<0.0106		0.0106	0.0106	mg/Kg	☼	03/12/24 09:36	03/13/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*65 - 130*	*03/12/24 09:36*	*03/13/24 17:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 130*	*03/12/24 09:36*	*03/13/24 17:55*	*1*
Dibromofluoromethane (Surr)	*110*		*65 - 130*	*03/12/24 09:36*	*03/13/24 17:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*65 - 130*	*03/12/24 09:36*	*03/13/24 17:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.26**		0.183	0.0950	mg/Kg	☼	03/12/24 09:36	03/14/24 17:17	40
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.245**		0.183	0.106	mg/Kg	☼	03/12/24 09:36	03/14/24 17:17	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*128*		*65 - 130*	*03/12/24 09:36*	*03/14/24 17:17*	*40*
1,2-Dichloroethane-d4 (Surr)	*128*		*65 - 130*	*03/12/24 09:36*	*03/14/24 17:17*	*40*
Dibromofluoromethane (Surr)	*132*	*S1+*	*65 - 130*	*03/12/24 09:36*	*03/14/24 17:17*	*40*
4-Bromofluorobenzene (Surr)	*108*		*65 - 130*	*03/12/24 09:36*	*03/14/24 17:17*	*40*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0516		0.415	0.0516	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Acenaphthylene	<0.0453		0.415	0.0453	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Acetophenone	<0.0352		0.415	0.0352	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Anthracene	<0.0314		0.415	0.0314	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Atrazine	<0.0289		0.415	0.0289	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Benzaldehyde	<0.0729		0.415	0.0729	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Benzo[a]anthracene	<0.0339		0.415	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (4)
Date Collected: 03/08/24 08:20
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-1
Matrix: Solid
Percent Solids: 76.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0654		0.415	0.0654	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Benzo[b]fluoranthene	<0.0478		0.415	0.0478	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Benzo[g,h,i]perylene	<0.0277		0.415	0.0277	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Benzo[k]fluoranthene	<0.0817		0.415	0.0817	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
1,1'-Biphenyl	<2.14		2.14	2.14	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Bis(2-chloroethoxy)methane	<0.0490		0.415	0.0490	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Bis(2-chloroethyl)ether	<0.0566		0.415	0.0566	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
bis (2-chloroisopropyl) ether	<0.0377		0.415	0.0377	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Bis(2-ethylhexyl) phthalate	<0.0365		0.415	0.0365	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
4-Bromophenyl phenyl ether	<0.0453		0.415	0.0453	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Butyl benzyl phthalate	<0.0327		0.415	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Caprolactam	<0.0830		0.415	0.0830	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Carbazole	<0.0377		0.415	0.0377	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
4-Chloroaniline	<0.0654		0.830	0.0654	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
4-Chloro-3-methylphenol	<0.0440		0.415	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2-Chloronaphthalene	<0.0440		0.415	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2-Chlorophenol	<0.0503		0.415	0.0503	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
4-Chlorophenyl phenyl ether	<0.0553		0.415	0.0553	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Chrysene	<0.0264		0.415	0.0264	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Dibenz(a,h)anthracene	<0.0490		0.415	0.0490	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Dibenzofuran	<0.0415		0.415	0.0415	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
3,3'-Dichlorobenzidine	<0.0352		0.830	0.0352	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,4-Dichlorophenol	<0.0440		0.415	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Diethyl phthalate	<0.0465		0.415	0.0465	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,4-Dimethylphenol	<0.0553		0.415	0.0553	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Dimethyl phthalate	<0.0428		0.415	0.0428	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Di-n-butyl phthalate	<0.0377		0.415	0.0377	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
4,6-Dinitro-2-methylphenol	<0.214		2.14	0.214	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,4-Dinitrophenol	<1.04		2.14	1.04	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,4-Dinitrotoluene	<0.0616		0.415	0.0616	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,6-Dinitrotoluene	<0.0528		0.415	0.0528	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Di-n-octyl phthalate	<0.0365		0.415	0.0365	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Fluoranthene	<0.0402		0.415	0.0402	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Fluorene	<0.0453		0.415	0.0453	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Hexachlorobenzene	<0.0490		0.415	0.0490	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Hexachlorobutadiene	<0.0453		0.415	0.0453	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Hexachlorocyclopentadiene	<0.0516		0.415	0.0516	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Hexachloroethane	<0.0352		0.415	0.0352	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Indeno[1,2,3-cd]pyrene	<0.0352		0.415	0.0352	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Isophorone	<0.0415		0.415	0.0415	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2-Methylnaphthalene	<0.0478		0.415	0.0478	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2-Methylphenol	<0.0339		0.415	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
3 & 4 Methylphenol	<0.0541		0.415	0.0541	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Naphthalene	<0.0377		0.415	0.0377	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2-Nitroaniline	<0.0566		2.14	0.0566	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
3-Nitroaniline	<0.0578		2.14	0.0578	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
4-Nitroaniline	<0.0616		2.14	0.0616	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Nitrobenzene	<0.0327		0.415	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2-Nitrophenol	<0.0516		0.415	0.0516	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (4)

Lab Sample ID: 680-247827-1

Date Collected: 03/08/24 08:20
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.415		2.14	0.415	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
N-Nitrosodi-n-propylamine	<0.0402		0.415	0.0402	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
N-Nitrosodiphenylamine	<0.0415		0.415	0.0415	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Pentachlorophenol	<0.415		2.14	0.415	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Phenanthrene	<0.0339		0.415	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Phenol	<0.0428		0.415	0.0428	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Pyrene	<0.0339		0.415	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
Pyridine	<0.415		0.830	0.415	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,4,5-Trichlorophenol	<0.0440		0.415	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1
2,4,6-Trichlorophenol	<0.0365		0.415	0.0365	mg/Kg	☼	03/13/24 10:00	03/14/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*25 - 130*	*03/13/24 10:00*	*03/14/24 01:27*	*1*
2-Fluorophenol (Surr)	*62*		*18 - 130*	*03/13/24 10:00*	*03/14/24 01:27*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/13/24 10:00*	*03/14/24 01:27*	*1*
Phenol-d5 (Surr)	*63*		*21 - 130*	*03/13/24 10:00*	*03/14/24 01:27*	*1*
Terphenyl-d14 (Surr)	*69*		*31 - 133*	*03/13/24 10:00*	*03/14/24 01:27*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*21 - 132*	*03/13/24 10:00*	*03/14/24 01:27*	*1*

Client Sample ID: WAP-SS-01 (8)

Lab Sample ID: 680-247827-2

Date Collected: 03/08/24 08:25
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 73.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0428**	**J**	0.0517	0.0114	mg/Kg	☼	03/12/24 09:36	03/14/24 15:28	1
Benzene	<0.00231		0.00480	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Bromobenzene	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Chlorobromomethane	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Dichlorobromomethane	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Bromoform	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Bromomethane	<0.00231	*+	0.00480	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
2-Butanone (MEK)	<0.00884		0.0240	0.00884	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
n-Butylbenzene	<0.00183		0.00480	0.00183	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
sec-Butylbenzene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
tert-Butylbenzene	<0.00240		0.00480	0.00240	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Carbon disulfide	<0.00202		0.00480	0.00202	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Carbon tetrachloride	<0.00202		0.00480	0.00202	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Chlorobenzene	<0.00134		0.00480	0.00134	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Chloroethane	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Chloroform	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Chloromethane	<0.00231		0.00480	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
2-Chlorotoluene	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
4-Chlorotoluene	<0.00202		0.00480	0.00202	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Chlorodibromomethane	<0.00202		0.00480	0.00202	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2-Dibromo-3-Chloropropane	<0.00154		0.00961	0.00154	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Ethylene Dibromide	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Dibromomethane	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2-Dichlorobenzene	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,3-Dichlorobenzene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (8)
Date Collected: 03/08/24 08:25
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-2
Matrix: Solid
Percent Solids: 73.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00173		0.00480	0.00173	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
trans-1,4-Dichloro-2-butene	<0.00231		0.00961	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Dichlorodifluoromethane	<0.00307		0.00480	0.00307	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1-Dichloroethane	<0.00279		0.00480	0.00279	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2-Dichloroethane	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
cis-1,2-Dichloroethene	<0.00279		0.00480	0.00279	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
trans-1,2-Dichloroethene	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1-Dichloroethene	<0.00346		0.00480	0.00346	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2-Dichloropropane	<0.00250		0.00480	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,3-Dichloropropane	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
2,2-Dichloropropane	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1-Dichloropropene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
cis-1,3-Dichloropropene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
trans-1,3-Dichloropropene	<0.00250		0.00480	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Ethylbenzene	<0.00202		0.00480	0.00202	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Hexachlorobutadiene	<0.00394		0.00480	0.00394	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
2-Hexanone	<0.0183		0.0240	0.0183	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Iodomethane	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Isopropylbenzene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
4-Isopropyltoluene	<0.00250		0.00480	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Methylene Chloride	<0.00769		0.00961	0.00769	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0173		0.0240	0.0173	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Methyl tert-butyl ether	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Naphthalene	<0.00298		0.00480	0.00298	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
N-Propylbenzene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Styrene	<0.00183		0.00480	0.00183	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1,1,2-Tetrachloroethane	<0.00125		0.00480	0.00125	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1,2,2-Tetrachloroethane	<0.00202		0.00480	0.00202	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Tetrachloroethene	**0.0173**		0.00517	0.00269	mg/Kg	☼	03/12/24 09:36	03/14/24 15:28	1
Toluene	<0.00250		0.00480	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2,3-Trichlorobenzene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2,4-Trichlorobenzene	<0.00240		0.00480	0.00240	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1,1-Trichloroethane	<0.00250		0.00480	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1,2-Trichloroethane	<0.00144		0.00480	0.00144	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Trichloroethene	<0.00173		0.00480	0.00173	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Trichlorofluoromethane	<0.00298		0.00480	0.00298	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,2,3-Trichloropropane	<0.00173		0.00480	0.00173	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00300		0.00517	0.00300	mg/Kg	☼	03/12/24 09:36	03/14/24 15:28	1
1,2,4-Trimethylbenzene	<0.00240		0.00480	0.00240	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
1,3,5-Trimethylbenzene	<0.00231		0.00480	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Vinyl acetate	<0.00528	*+	0.00961	0.00528	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Vinyl chloride	<0.00269		0.00480	0.00269	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
o-Xylene	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
m-Xylene & p-Xylene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Xylenes, Total	<0.00346		0.00961	0.00346	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Isopropyl ether	<0.00144		0.00961	0.00144	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Hexane	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
n-Heptane	<0.00413		0.00480	0.00413	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1
Ethyl acetate	<0.00961		0.00961	0.00961	mg/Kg	☼	03/12/24 09:36	03/13/24 18:17	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (8)
Date Collected: 03/08/24 08:25
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-2
Matrix: Solid
Percent Solids: 73.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*104*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:17*	*1*
Toluene-d8 (Surr)	*120*		*65 - 130*	*03/12/24 09:36*	*03/14/24 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*65 - 130*	*03/12/24 09:36*	*03/14/24 15:28*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:17*	*1*
Dibromofluoromethane (Surr)	*122*		*65 - 130*	*03/12/24 09:36*	*03/14/24 15:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:17*	*1*
4-Bromofluorobenzene (Surr)	*118*		*65 - 130*	*03/12/24 09:36*	*03/14/24 15:28*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0547		0.440	0.0547	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Acenaphthylene	<0.0480		0.440	0.0480	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Acetophenone	<0.0374		0.440	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Anthracene	<0.0334		0.440	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Atrazine	<0.0307		0.440	0.0307	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Benzaldehyde	<0.0774		0.440	0.0774	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Benzo[a]anthracene	<0.0360		0.440	0.0360	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Benzo[a]pyrene	<0.0694		0.440	0.0694	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Benzo[b]fluoranthene	<0.0507		0.440	0.0507	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Benzo[g,h,i]perylene	<0.0294		0.440	0.0294	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Benzo[k]fluoranthene	<0.0868		0.440	0.0868	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
1,1'-Biphenyl	<2.27		2.27	2.27	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Bis(2-chloroethoxy)methane	<0.0521		0.440	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Bis(2-chloroethyl)ether	<0.0601		0.440	0.0601	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
bis (2-chloroisopropyl) ether	<0.0400		0.440	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Bis(2-ethylhexyl) phthalate	<0.0387		0.440	0.0387	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4-Bromophenyl phenyl ether	<0.0480		0.440	0.0480	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Butyl benzyl phthalate	<0.0347		0.440	0.0347	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Caprolactam	<0.0881		0.440	0.0881	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Carbazole	<0.0400		0.440	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4-Chloroaniline	<0.0694		0.881	0.0694	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4-Chloro-3-methylphenol	<0.0467		0.440	0.0467	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2-Chloronaphthalene	<0.0467		0.440	0.0467	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2-Chlorophenol	<0.0534		0.440	0.0534	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4-Chlorophenyl phenyl ether	<0.0587		0.440	0.0587	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Chrysene	<0.0280		0.440	0.0280	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Dibenz(a,h)anthracene	<0.0521		0.440	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Dibenzofuran	<0.0440		0.440	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
3,3'-Dichlorobenzidine	<0.0374		0.881	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,4-Dichlorophenol	<0.0467		0.440	0.0467	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Diethyl phthalate	<0.0494		0.440	0.0494	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,4-Dimethylphenol	<0.0587		0.440	0.0587	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Dimethyl phthalate	<0.0454		0.440	0.0454	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Di-n-butyl phthalate	<0.0400		0.440	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4,6-Dinitro-2-methylphenol	<0.227		2.27	0.227	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,4-Dinitrophenol	<1.11		2.27	1.11	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,4-Dinitrotoluene	<0.0654		0.440	0.0654	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,6-Dinitrotoluene	<0.0561		0.440	0.0561	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Di-n-octyl phthalate	<0.0387		0.440	0.0387	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (8)

Lab Sample ID: 680-247827-2

Date Collected: 03/08/24 08:25
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 73.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.0427		0.440	0.0427	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Fluorene	<0.0480		0.440	0.0480	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Hexachlorobenzene	<0.0521		0.440	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Hexachlorobutadiene	<0.0480		0.440	0.0480	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Hexachlorocyclopentadiene	<0.0547		0.440	0.0547	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Hexachloroethane	<0.0374		0.440	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Indeno[1,2,3-cd]pyrene	<0.0374		0.440	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Isophorone	<0.0440		0.440	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2-Methylnaphthalene	<0.0507		0.440	0.0507	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2-Methylphenol	<0.0360		0.440	0.0360	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
3 & 4 Methylphenol	<0.0574		0.440	0.0574	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Naphthalene	<0.0400		0.440	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2-Nitroaniline	<0.0601		2.27	0.0601	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
3-Nitroaniline	<0.0614		2.27	0.0614	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4-Nitroaniline	<0.0654		2.27	0.0654	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Nitrobenzene	<0.0347		0.440	0.0347	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2-Nitrophenol	<0.0547		0.440	0.0547	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
4-Nitrophenol	<0.440		2.27	0.440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
N-Nitrosodi-n-propylamine	<0.0427		0.440	0.0427	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
N-Nitrosodiphenylamine	<0.0440		0.440	0.0440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Pentachlorophenol	<0.440		2.27	0.440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Phenanthrene	<0.0360		0.440	0.0360	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Phenol	<0.0454		0.440	0.0454	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Pyrene	<0.0360		0.440	0.0360	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
Pyridine	<0.440		0.881	0.440	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,4,5-Trichlorophenol	<0.0467		0.440	0.0467	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1
2,4,6-Trichlorophenol	<0.0387		0.440	0.0387	mg/Kg	☼	03/13/24 10:00	03/14/24 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/13/24 10:00*	*03/14/24 01:53*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 130*	*03/13/24 10:00*	*03/14/24 01:53*	*1*
Nitrobenzene-d5 (Surr)	*72*		*19 - 130*	*03/13/24 10:00*	*03/14/24 01:53*	*1*
Phenol-d5 (Surr)	*71*		*21 - 130*	*03/13/24 10:00*	*03/14/24 01:53*	*1*
Terphenyl-d14 (Surr)	*75*		*31 - 133*	*03/13/24 10:00*	*03/14/24 01:53*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*	*03/13/24 10:00*	*03/14/24 01:53*	*1*

Client Sample ID: WAP-SS-02 (4)

Lab Sample ID: 680-247827-3

Date Collected: 03/08/24 08:30
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0293**	**J**	0.0513	0.0113	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Benzene	<0.00246		0.00513	0.00246	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Bromobenzene	<0.00174		0.00513	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Chlorobromomethane	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Dichlorobromomethane	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Bromoform	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Bromomethane	<0.00246	*+	0.00513	0.00246	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
2-Butanone (MEK)	<0.00944		0.0257	0.00944	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-02 (4)
Date Collected: 03/08/24 08:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-3
Matrix: Solid
Percent Solids: 76.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	<0.00195		0.00513	0.00195	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
sec-Butylbenzene	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
tert-Butylbenzene	<0.00257		0.00513	0.00257	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Carbon disulfide	<0.00215		0.00513	0.00215	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Carbon tetrachloride	<0.00215		0.00513	0.00215	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Chlorobenzene	<0.00144		0.00513	0.00144	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Chloroethane	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Chloroform	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Chloromethane	<0.00246		0.00513	0.00246	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
2-Chlorotoluene	<0.00236		0.00513	0.00236	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
4-Chlorotoluene	<0.00215		0.00513	0.00215	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Chlorodibromomethane	<0.00215		0.00513	0.00215	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2-Dibromo-3-Chloropropane	<0.00164		0.0103	0.00164	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Ethylene Dibromide	<0.00174		0.00513	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Dibromomethane	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2-Dichlorobenzene	<0.00174		0.00513	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,3-Dichlorobenzene	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,4-Dichlorobenzene	<0.00185		0.00513	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
trans-1,4-Dichloro-2-butene	<0.00246		0.0103	0.00246	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Dichlorodifluoromethane	<0.00328		0.00513	0.00328	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1-Dichloroethane	<0.00298		0.00513	0.00298	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2-Dichloroethane	<0.00236		0.00513	0.00236	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
cis-1,2-Dichloroethene	**0.00944**		0.00513	0.00298	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
trans-1,2-Dichloroethene	<0.00236		0.00513	0.00236	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1-Dichloroethene	<0.00369		0.00513	0.00369	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2-Dichloropropane	<0.00267		0.00513	0.00267	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,3-Dichloropropane	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
2,2-Dichloropropane	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1-Dichloropropene	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
cis-1,3-Dichloropropene	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
trans-1,3-Dichloropropene	<0.00267		0.00513	0.00267	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Ethylbenzene	<0.00215		0.00513	0.00215	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Hexachlorobutadiene	<0.00421		0.00513	0.00421	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
2-Hexanone	<0.0195		0.0257	0.0195	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Iodomethane	<0.00174		0.00513	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Isopropylbenzene	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
4-Isopropyltoluene	<0.00267		0.00513	0.00267	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Methylene Chloride	<0.00821		0.0103	0.00821	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
4-Methyl-2-pentanone (MIBK)	<0.0185		0.0257	0.0185	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Methyl tert-butyl ether	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Naphthalene	<0.00318		0.00513	0.00318	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
N-Propylbenzene	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Styrene	<0.00195		0.00513	0.00195	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1,1,2-Tetrachloroethane	<0.00133		0.00513	0.00133	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1,2,2-Tetrachloroethane	<0.00215		0.00513	0.00215	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Tetrachloroethene	**0.0531**		0.00513	0.00267	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Toluene	<0.00267		0.00513	0.00267	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2,3-Trichlorobenzene	<0.00205		0.00513	0.00205	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2,4-Trichlorobenzene	<0.00257		0.00513	0.00257	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-02 (4)
Date Collected: 03/08/24 08:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-3
Matrix: Solid
Percent Solids: 76.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00267		0.00513	0.00267	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1,2-Trichloroethane	<0.00154		0.00513	0.00154	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Trichloroethene	**0.00492**	**J**	0.00513	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Trichlorofluoromethane	<0.00318		0.00513	0.00318	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2,3-Trichloropropane	<0.00185		0.00513	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.104**		0.00513	0.00298	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,2,4-Trimethylbenzene	<0.00257		0.00513	0.00257	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
1,3,5-Trimethylbenzene	<0.00246		0.00513	0.00246	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Vinyl acetate	<0.00564	*+	0.0103	0.00564	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Vinyl chloride	<0.00287		0.00513	0.00287	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
o-Xylene	<0.00236		0.00513	0.00236	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
m-Xylene & p-Xylene	<0.00226		0.00513	0.00226	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Xylenes, Total	<0.00369		0.0103	0.00369	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Isopropyl ether	<0.00154		0.0103	0.00154	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Hexane	<0.00174		0.00513	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
n-Heptane	<0.00441		0.00513	0.00441	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1
Ethyl acetate	<0.0103		0.0103	0.0103	mg/Kg	☼	03/12/24 09:36	03/13/24 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:38*	*1*
Dibromofluoromethane (Surr)	*114*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:38*	*1*
4-Bromofluorobenzene (Surr)	*101*		*65 - 130*	*03/12/24 09:36*	*03/13/24 18:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0521		0.420	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Acenaphthylene	<0.0458		0.420	0.0458	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Acetophenone	<0.0356		0.420	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Anthracene	<0.0318		0.420	0.0318	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Atrazine	<0.0292		0.420	0.0292	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Benzaldehyde	<0.0737		0.420	0.0737	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Benzo[a]anthracene	<0.0343		0.420	0.0343	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Benzo[a]pyrene	<0.0661		0.420	0.0661	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Benzo[b]fluoranthene	<0.0483		0.420	0.0483	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Benzo[g,h,i]perylene	<0.0280		0.420	0.0280	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Benzo[k]fluoranthene	<0.0826		0.420	0.0826	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
1,1'-Biphenyl	<2.16		2.16	2.16	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Bis(2-chloroethoxy)methane	<0.0496		0.420	0.0496	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Bis(2-chloroethyl)ether	<0.0572		0.420	0.0572	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
bis (2-chloroisopropyl) ether	<0.0381		0.420	0.0381	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Bis(2-ethylhexyl) phthalate	<0.0369		0.420	0.0369	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4-Bromophenyl phenyl ether	<0.0458		0.420	0.0458	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Butyl benzyl phthalate	<0.0331		0.420	0.0331	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Caprolactam	<0.0839		0.420	0.0839	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Carbazole	<0.0381		0.420	0.0381	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4-Chloroaniline	<0.0661		0.839	0.0661	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4-Chloro-3-methylphenol	<0.0445		0.420	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2-Chloronaphthalene	<0.0445		0.420	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-02 (4)
Date Collected: 03/08/24 08:30
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-3
Matrix: Solid
Percent Solids: 76.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0509		0.420	0.0509	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4-Chlorophenyl phenyl ether	<0.0559		0.420	0.0559	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Chrysene	<0.0267		0.420	0.0267	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Dibenz(a,h)anthracene	<0.0496		0.420	0.0496	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Dibenzofuran	<0.0420		0.420	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
3,3'-Dichlorobenzidine	<0.0356		0.839	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,4-Dichlorophenol	<0.0445		0.420	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Diethyl phthalate	<0.0470		0.420	0.0470	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,4-Dimethylphenol	<0.0559		0.420	0.0559	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Dimethyl phthalate	<0.0432		0.420	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Di-n-butyl phthalate	<0.0381		0.420	0.0381	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4,6-Dinitro-2-methylphenol	<0.216		2.16	0.216	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,4-Dinitrophenol	<1.06		2.16	1.06	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,4-Dinitrotoluene	<0.0623		0.420	0.0623	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,6-Dinitrotoluene	<0.0534		0.420	0.0534	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Di-n-octyl phthalate	<0.0369		0.420	0.0369	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Fluoranthene	<0.0407		0.420	0.0407	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Fluorene	<0.0458		0.420	0.0458	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Hexachlorobenzene	<0.0496		0.420	0.0496	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Hexachlorobutadiene	<0.0458		0.420	0.0458	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Hexachlorocyclopentadiene	<0.0521		0.420	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Hexachloroethane	<0.0356		0.420	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Indeno[1,2,3-cd]pyrene	<0.0356		0.420	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Isophorone	<0.0420		0.420	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2-Methylnaphthalene	<0.0483		0.420	0.0483	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2-Methylphenol	<0.0343		0.420	0.0343	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
3 & 4 Methylphenol	<0.0547		0.420	0.0547	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Naphthalene	<0.0381		0.420	0.0381	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2-Nitroaniline	<0.0572		2.16	0.0572	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
3-Nitroaniline	<0.0585		2.16	0.0585	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4-Nitroaniline	<0.0623		2.16	0.0623	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Nitrobenzene	<0.0331		0.420	0.0331	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2-Nitrophenol	<0.0521		0.420	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
4-Nitrophenol	<0.420		2.16	0.420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
N-Nitrosodi-n-propylamine	<0.0407		0.420	0.0407	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
N-Nitrosodiphenylamine	<0.0420		0.420	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Pentachlorophenol	<0.420		2.16	0.420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Phenanthrene	<0.0343		0.420	0.0343	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Phenol	<0.0432		0.420	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Pyrene	<0.0343		0.420	0.0343	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
Pyridine	<0.420		0.839	0.420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,4,5-Trichlorophenol	<0.0445		0.420	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1
2,4,6-Trichlorophenol	<0.0369		0.420	0.0369	mg/Kg	☼	03/13/24 10:00	03/14/24 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/13/24 10:00*	*03/14/24 02:20*	*1*
2-Fluorophenol (Surr)	*67*		*18 - 130*	*03/13/24 10:00*	*03/14/24 02:20*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/13/24 10:00*	*03/14/24 02:20*	*1*
Phenol-d5 (Surr)	*65*		*21 - 130*	*03/13/24 10:00*	*03/14/24 02:20*	*1*
Terphenyl-d14 (Surr)	*70*		*31 - 133*	*03/13/24 10:00*	*03/14/24 02:20*	*1*

Client Sample ID: WAP-SS-02 (4)

Lab Sample ID: 680-247827-3

Date Collected: 03/08/24 08:30
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*65*		*21 - 132*	*03/13/24 10:00*	*03/14/24 02:20*	*1*

Client Sample ID: WAP-SS-02 (8)

Lab Sample ID: 680-247827-4

Date Collected: 03/08/24 08:35
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 79.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0185**	**J**	0.0498	0.0110	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Benzene	<0.00239		0.00498	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Bromobenzene	<0.00169		0.00498	0.00169	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Chlorobromomethane	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Dichlorobromomethane	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Bromoform	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Bromomethane	<0.00239	*+	0.00498	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
2-Butanone (MEK)	<0.00917		0.0249	0.00917	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
n-Butylbenzene	<0.00189		0.00498	0.00189	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
sec-Butylbenzene	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
tert-Butylbenzene	<0.00249		0.00498	0.00249	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Carbon disulfide	<0.00209		0.00498	0.00209	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Carbon tetrachloride	<0.00209		0.00498	0.00209	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Chlorobenzene	**0.00146**	**J**	0.00498	0.00140	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Chloroethane	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Chloroform	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Chloromethane	<0.00239		0.00498	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
2-Chlorotoluene	<0.00229		0.00498	0.00229	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
4-Chlorotoluene	<0.00209		0.00498	0.00209	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Chlorodibromomethane	<0.00209		0.00498	0.00209	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2-Dibromo-3-Chloropropane	<0.00159		0.00997	0.00159	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Ethylene Dibromide	<0.00169		0.00498	0.00169	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Dibromomethane	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2-Dichlorobenzene	<0.00169		0.00498	0.00169	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,3-Dichlorobenzene	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,4-Dichlorobenzene	<0.00179		0.00498	0.00179	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
trans-1,4-Dichloro-2-butene	<0.00239		0.00997	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Dichlorodifluoromethane	<0.00319		0.00498	0.00319	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1-Dichloroethane	<0.00289		0.00498	0.00289	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2-Dichloroethane	<0.00229		0.00498	0.00229	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
cis-1,2-Dichloroethene	**0.00310**	**J**	0.00498	0.00289	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
trans-1,2-Dichloroethene	<0.00229		0.00498	0.00229	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1-Dichloroethene	<0.00359		0.00498	0.00359	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2-Dichloropropane	<0.00259		0.00498	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,3-Dichloropropane	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
2,2-Dichloropropane	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1-Dichloropropene	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
cis-1,3-Dichloropropene	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
trans-1,3-Dichloropropene	<0.00259		0.00498	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Ethylbenzene	<0.00209		0.00498	0.00209	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Hexachlorobutadiene	<0.00409		0.00498	0.00409	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-02 (8)
Date Collected: 03/08/24 08:35
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-4
Matrix: Solid
Percent Solids: 79.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0189		0.0249	0.0189	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Iodomethane	<0.00169		0.00498	0.00169	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Isopropylbenzene	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
4-Isopropyltoluene	<0.00259		0.00498	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Methylene Chloride	<0.00797		0.00997	0.00797	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
4-Methyl-2-pentanone (MIBK)	<0.0179		0.0249	0.0179	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Methyl tert-butyl ether	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Naphthalene	<0.00309		0.00498	0.00309	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
N-Propylbenzene	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Styrene	<0.00189		0.00498	0.00189	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00498	0.00130	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1,2,2-Tetrachloroethane	<0.00209		0.00498	0.00209	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Tetrachloroethene	**0.0149**		0.00498	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Toluene	<0.00259		0.00498	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2,3-Trichlorobenzene	<0.00199		0.00498	0.00199	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2,4-Trichlorobenzene	<0.00249		0.00498	0.00249	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1,1-Trichloroethane	<0.00259		0.00498	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1,2-Trichloroethane	<0.00150		0.00498	0.00150	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Trichloroethene	**0.00333**	**J**	0.00498	0.00179	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Trichlorofluoromethane	<0.00309		0.00498	0.00309	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2,3-Trichloropropane	<0.00179		0.00498	0.00179	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00892**		0.00498	0.00289	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,2,4-Trimethylbenzene	<0.00249		0.00498	0.00249	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
1,3,5-Trimethylbenzene	<0.00239		0.00498	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Vinyl acetate	<0.00548	*+	0.00997	0.00548	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Vinyl chloride	<0.00279		0.00498	0.00279	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
o-Xylene	<0.00229		0.00498	0.00229	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
m-Xylene & p-Xylene	<0.00219		0.00498	0.00219	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Xylenes, Total	<0.00359		0.00997	0.00359	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Isopropyl ether	<0.00150		0.00997	0.00150	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Hexane	<0.00169		0.00498	0.00169	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
n-Heptane	<0.00429		0.00498	0.00429	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1
Ethyl acetate	<0.00997		0.00997	0.00997	mg/Kg	☼	03/12/24 09:36	03/13/24 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:00*	*1*
Dibromofluoromethane (Surr)	*117*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0506		0.408	0.0506	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Acenaphthylene	<0.0445		0.408	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Acetophenone	<0.0346		0.408	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Anthracene	<0.0309		0.408	0.0309	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Atrazine	<0.0284		0.408	0.0284	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Benzaldehyde	<0.0716		0.408	0.0716	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Benzo[a]anthracene	<0.0334		0.408	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1

Client: Terracon Consultants, Inc.
Job ID: 680-247827-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: WAP-SS-02 (8)
Lab Sample ID: 680-247827-4
Date Collected: 03/08/24 08:35
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 79.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0642		0.408	0.0642	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Benzo[b]fluoranthene	<0.0469		0.408	0.0469	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Benzo[g,h,i]perylene	<0.0272		0.408	0.0272	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Benzo[k]fluoranthene	<0.0803		0.408	0.0803	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
1,1'-Biphenyl	<2.10		2.10	2.10	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Bis(2-chloroethoxy)methane	<0.0482		0.408	0.0482	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Bis(2-chloroethyl)ether	<0.0556		0.408	0.0556	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
bis (2-chloroisopropyl) ether	<0.0371		0.408	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Bis(2-ethylhexyl) phthalate	<0.0358		0.408	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
4-Bromophenyl phenyl ether	<0.0445		0.408	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Butyl benzyl phthalate	<0.0321		0.408	0.0321	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Caprolactam	<0.0815		0.408	0.0815	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Carbazole	<0.0371		0.408	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
4-Chloroaniline	<0.0642		0.815	0.0642	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
4-Chloro-3-methylphenol	<0.0432		0.408	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2-Chloronaphthalene	<0.0432		0.408	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2-Chlorophenol	<0.0494		0.408	0.0494	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
4-Chlorophenyl phenyl ether	<0.0543		0.408	0.0543	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Chrysene	<0.0259		0.408	0.0259	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Dibenz(a,h)anthracene	<0.0482		0.408	0.0482	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Dibenzofuran	<0.0408		0.408	0.0408	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
3,3'-Dichlorobenzidine	<0.0346		0.815	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,4-Dichlorophenol	<0.0432		0.408	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Diethyl phthalate	<0.0457		0.408	0.0457	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,4-Dimethylphenol	<0.0543		0.408	0.0543	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Dimethyl phthalate	<0.0420		0.408	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Di-n-butyl phthalate	<0.0371		0.408	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
4,6-Dinitro-2-methylphenol	<0.210		2.10	0.210	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,4-Dinitrophenol	<1.03		2.10	1.03	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,4-Dinitrotoluene	<0.0605		0.408	0.0605	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,6-Dinitrotoluene	<0.0519		0.408	0.0519	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Di-n-octyl phthalate	<0.0358		0.408	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Fluoranthene	<0.0395		0.408	0.0395	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Fluorene	<0.0445		0.408	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Hexachlorobenzene	<0.0482		0.408	0.0482	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Hexachlorobutadiene	<0.0445		0.408	0.0445	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Hexachlorocyclopentadiene	<0.0506		0.408	0.0506	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Hexachloroethane	<0.0346		0.408	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Indeno[1,2,3-cd]pyrene	<0.0346		0.408	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Isophorone	<0.0408		0.408	0.0408	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2-Methylnaphthalene	<0.0469		0.408	0.0469	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2-Methylphenol	<0.0334		0.408	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
3 & 4 Methylphenol	<0.0531		0.408	0.0531	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Naphthalene	<0.0371		0.408	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2-Nitroaniline	<0.0556		2.10	0.0556	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
3-Nitroaniline	<0.0568		2.10	0.0568	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
4-Nitroaniline	<0.0605		2.10	0.0605	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Nitrobenzene	<0.0321		0.408	0.0321	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2-Nitrophenol	<0.0506		0.408	0.0506	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1

Client Sample ID: WAP-SS-02 (8)

Lab Sample ID: 680-247827-4

Date Collected: 03/08/24 08:35
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 79.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.408		2.10	0.408	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
N-Nitrosodi-n-propylamine	<0.0395		0.408	0.0395	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
N-Nitrosodiphenylamine	<0.0408		0.408	0.0408	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Pentachlorophenol	<0.408		2.10	0.408	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Phenanthrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Phenol	<0.0420		0.408	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Pyrene	<0.0334		0.408	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
Pyridine	<0.408		0.815	0.408	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,4,5-Trichlorophenol	<0.0432		0.408	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1
2,4,6-Trichlorophenol	<0.0358		0.408	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/13/24 10:00*	*03/14/24 02:46*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 130*	*03/13/24 10:00*	*03/14/24 02:46*	*1*
Nitrobenzene-d5 (Surr)	*71*		*19 - 130*	*03/13/24 10:00*	*03/14/24 02:46*	*1*
Phenol-d5 (Surr)	*73*		*21 - 130*	*03/13/24 10:00*	*03/14/24 02:46*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/13/24 10:00*	*03/14/24 02:46*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/13/24 10:00*	*03/14/24 02:46*	*1*

Client Sample ID: WAP-BS-01

Lab Sample ID: 680-247827-5

Date Collected: 03/08/24 09:20
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 74.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0183**	**J**	0.0544	0.0120	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Benzene	<0.00261		0.00544	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Bromobenzene	<0.00185		0.00544	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Chlorobromomethane	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Dichlorobromomethane	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Bromoform	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Bromomethane	<0.00261	*+	0.00544	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
2-Butanone (MEK)	<0.0100		0.0272	0.0100	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
n-Butylbenzene	<0.00207		0.00544	0.00207	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
sec-Butylbenzene	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
tert-Butylbenzene	<0.00272		0.00544	0.00272	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Carbon disulfide	<0.00228		0.00544	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Carbon tetrachloride	<0.00228		0.00544	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Chlorobenzene	<0.00152		0.00544	0.00152	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Chloroethane	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Chloroform	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Chloromethane	<0.00261		0.00544	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
2-Chlorotoluene	<0.00250		0.00544	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
4-Chlorotoluene	<0.00228		0.00544	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Chlorodibromomethane	<0.00228		0.00544	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2-Dibromo-3-Chloropropane	<0.00174		0.0109	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Ethylene Dibromide	<0.00185		0.00544	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Dibromomethane	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2-Dichlorobenzene	<0.00185		0.00544	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,3-Dichlorobenzene	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-BS-01
Date Collected: 03/08/24 09:20
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-5
Matrix: Solid
Percent Solids: 74.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.00196		0.00544	0.00196	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
trans-1,4-Dichloro-2-butene	<0.00261		0.0109	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Dichlorodifluoromethane	<0.00348		0.00544	0.00348	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1-Dichloroethane	<0.00316		0.00544	0.00316	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2-Dichloroethane	<0.00250		0.00544	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
cis-1,2-Dichloroethene	**0.00660**		0.00544	0.00316	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
trans-1,2-Dichloroethene	<0.00250		0.00544	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1-Dichloroethene	<0.00392		0.00544	0.00392	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2-Dichloropropane	<0.00283		0.00544	0.00283	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,3-Dichloropropane	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
2,2-Dichloropropane	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1-Dichloropropene	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
cis-1,3-Dichloropropene	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
trans-1,3-Dichloropropene	<0.00283		0.00544	0.00283	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Ethylbenzene	<0.00228		0.00544	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Hexachlorobutadiene	<0.00446		0.00544	0.00446	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
2-Hexanone	<0.0207		0.0272	0.0207	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Iodomethane	<0.00185		0.00544	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Isopropylbenzene	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
4-Isopropyltoluene	<0.00283		0.00544	0.00283	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Methylene Chloride	<0.00870		0.0109	0.00870	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
4-Methyl-2-pentanone (MIBK)	<0.0196		0.0272	0.0196	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Methyl tert-butyl ether	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Naphthalene	<0.00337		0.00544	0.00337	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
N-Propylbenzene	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Styrene	<0.00207		0.00544	0.00207	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1,1,2-Tetrachloroethane	<0.00141		0.00544	0.00141	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1,2,2-Tetrachloroethane	<0.00228		0.00544	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Tetrachloroethene	**0.0300**		0.00544	0.00283	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Toluene	<0.00283		0.00544	0.00283	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2,3-Trichlorobenzene	<0.00218		0.00544	0.00218	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2,4-Trichlorobenzene	<0.00272		0.00544	0.00272	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1,1-Trichloroethane	<0.00283		0.00544	0.00283	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1,2-Trichloroethane	<0.00163		0.00544	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Trichloroethene	**0.00343**	**J**	0.00544	0.00196	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Trichlorofluoromethane	<0.00337		0.00544	0.00337	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2,3-Trichloropropane	<0.00196		0.00544	0.00196	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00455**	**J**	0.00544	0.00316	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,2,4-Trimethylbenzene	<0.00272		0.00544	0.00272	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
1,3,5-Trimethylbenzene	<0.00261		0.00544	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Vinyl acetate	<0.00598	*+	0.0109	0.00598	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Vinyl chloride	<0.00305		0.00544	0.00305	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
o-Xylene	<0.00250		0.00544	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
m-Xylene & p-Xylene	<0.00239		0.00544	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Xylenes, Total	<0.00392		0.0109	0.00392	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Isopropyl ether	<0.00163		0.0109	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Hexane	<0.00185		0.00544	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
n-Heptane	<0.00468		0.00544	0.00468	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1
Ethyl acetate	<0.0109		0.0109	0.0109	mg/Kg	☼	03/12/24 09:36	03/13/24 19:21	1

Client: Terracon Consultants, Inc.
Job ID: 680-247827-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: WAP-BS-01
Lab Sample ID: 680-247827-5
Date Collected: 03/08/24 09:20
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 74.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:21*	*1*
Dibromofluoromethane (Surr)	*116*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0538		0.433	0.0538	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Acenaphthylene	<0.0472		0.433	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Acetophenone	<0.0367		0.433	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Anthracene	<0.0328		0.433	0.0328	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Atrazine	<0.0302		0.433	0.0302	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Benzaldehyde	<0.0761		0.433	0.0761	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Benzo[a]anthracene	<0.0354		0.433	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Benzo[a]pyrene	<0.0682		0.433	0.0682	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Benzo[b]fluoranthene	<0.0498		0.433	0.0498	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Benzo[g,h,i]perylene	<0.0289		0.433	0.0289	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Benzo[k]fluoranthene	<0.0853		0.433	0.0853	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
1,1'-Biphenyl	<2.23		2.23	2.23	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Bis(2-chloroethoxy)methane	<0.0512		0.433	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Bis(2-chloroethyl)ether	<0.0590		0.433	0.0590	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
bis (2-chloroisopropyl) ether	<0.0394		0.433	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Bis(2-ethylhexyl) phthalate	<0.0380		0.433	0.0380	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4-Bromophenyl phenyl ether	<0.0472		0.433	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Butyl benzyl phthalate	<0.0341		0.433	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Caprolactam	<0.0866		0.433	0.0866	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Carbazole	<0.0394		0.433	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4-Chloroaniline	<0.0682		0.866	0.0682	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4-Chloro-3-methylphenol	<0.0459		0.433	0.0459	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2-Chloronaphthalene	<0.0459		0.433	0.0459	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2-Chlorophenol	<0.0525		0.433	0.0525	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4-Chlorophenyl phenyl ether	<0.0577		0.433	0.0577	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Chrysene	<0.0275		0.433	0.0275	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Dibenz(a,h)anthracene	<0.0512		0.433	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Dibenzofuran	<0.0433		0.433	0.0433	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
3,3'-Dichlorobenzidine	<0.0367		0.866	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,4-Dichlorophenol	<0.0459		0.433	0.0459	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Diethyl phthalate	<0.0485		0.433	0.0485	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,4-Dimethylphenol	<0.0577		0.433	0.0577	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Dimethyl phthalate	<0.0446		0.433	0.0446	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Di-n-butyl phthalate	<0.0394		0.433	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4,6-Dinitro-2-methylphenol	<0.223		2.23	0.223	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,4-Dinitrophenol	<1.09		2.23	1.09	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,4-Dinitrotoluene	<0.0643		0.433	0.0643	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,6-Dinitrotoluene	<0.0551		0.433	0.0551	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Di-n-octyl phthalate	<0.0380		0.433	0.0380	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Fluoranthene	<0.0420		0.433	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Fluorene	<0.0472		0.433	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Hexachlorobenzene	<0.0512		0.433	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Hexachlorobutadiene	<0.0472		0.433	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-BS-01

Lab Sample ID: 680-247827-5

Date Collected: 03/08/24 09:20
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 74.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0538		0.433	0.0538	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Hexachloroethane	<0.0367		0.433	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Indeno[1,2,3-cd]pyrene	<0.0367		0.433	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Isophorone	<0.0433		0.433	0.0433	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2-Methylnaphthalene	<0.0498		0.433	0.0498	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2-Methylphenol	<0.0354		0.433	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
3 & 4 Methylphenol	<0.0564		0.433	0.0564	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Naphthalene	<0.0394		0.433	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2-Nitroaniline	<0.0590		2.23	0.0590	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
3-Nitroaniline	<0.0603		2.23	0.0603	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4-Nitroaniline	<0.0643		2.23	0.0643	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Nitrobenzene	<0.0341		0.433	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2-Nitrophenol	<0.0538		0.433	0.0538	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
4-Nitrophenol	<0.433		2.23	0.433	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
N-Nitrosodi-n-propylamine	<0.0420		0.433	0.0420	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
N-Nitrosodiphenylamine	<0.0433		0.433	0.0433	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Pentachlorophenol	<0.433		2.23	0.433	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Phenanthrene	<0.0354		0.433	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Phenol	<0.0446		0.433	0.0446	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Pyrene	<0.0354		0.433	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
Pyridine	<0.433		0.866	0.433	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,4,5-Trichlorophenol	<0.0459		0.433	0.0459	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1
2,4,6-Trichlorophenol	<0.0380		0.433	0.0380	mg/Kg	☼	03/13/24 10:00	03/14/24 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/13/24 10:00*	*03/14/24 03:12*	*1*
2-Fluorophenol (Surr)	*72*		*18 - 130*	*03/13/24 10:00*	*03/14/24 03:12*	*1*
Nitrobenzene-d5 (Surr)	*70*		*19 - 130*	*03/13/24 10:00*	*03/14/24 03:12*	*1*
Phenol-d5 (Surr)	*73*		*21 - 130*	*03/13/24 10:00*	*03/14/24 03:12*	*1*
Terphenyl-d14 (Surr)	*79*		*31 - 133*	*03/13/24 10:00*	*03/14/24 03:12*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*	*03/13/24 10:00*	*03/14/24 03:12*	*1*

Client Sample ID: WAP-BS-02

Lab Sample ID: 680-247827-6

Date Collected: 03/08/24 09:25
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 74.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0343**	**J**	0.0543	0.0119	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Benzene	<0.00261		0.00543	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Bromobenzene	<0.00185		0.00543	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Chlorobromomethane	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Dichlorobromomethane	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Bromoform	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Bromomethane	<0.00261	*+	0.00543	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
2-Butanone (MEK)	<0.00999		0.0272	0.00999	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
n-Butylbenzene	<0.00206		0.00543	0.00206	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
sec-Butylbenzene	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
tert-Butylbenzene	<0.00272		0.00543	0.00272	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Carbon disulfide	<0.00228		0.00543	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1

Client Sample ID: WAP-BS-02
Date Collected: 03/08/24 09:25
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-6
Matrix: Solid
Percent Solids: 74.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00228		0.00543	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Chlorobenzene	<0.00152		0.00543	0.00152	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Chloroethane	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Chloroform	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Chloromethane	<0.00261		0.00543	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
2-Chlorotoluene	<0.00250		0.00543	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
4-Chlorotoluene	<0.00228		0.00543	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Chlorodibromomethane	<0.00228		0.00543	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2-Dibromo-3-Chloropropane	<0.00174		0.0109	0.00174	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Ethylene Dibromide	<0.00185		0.00543	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Dibromomethane	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2-Dichlorobenzene	<0.00185		0.00543	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,3-Dichlorobenzene	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,4-Dichlorobenzene	<0.00195		0.00543	0.00195	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
trans-1,4-Dichloro-2-butene	<0.00261		0.0109	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Dichlorodifluoromethane	<0.00348		0.00543	0.00348	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1-Dichloroethane	<0.00315		0.00543	0.00315	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2-Dichloroethane	<0.00250		0.00543	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
cis-1,2-Dichloroethene	**0.00410**	**J**	0.00543	0.00315	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
trans-1,2-Dichloroethene	<0.00250		0.00543	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1-Dichloroethene	<0.00391		0.00543	0.00391	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2-Dichloropropane	<0.00282		0.00543	0.00282	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,3-Dichloropropane	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
2,2-Dichloropropane	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1-Dichloropropene	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
cis-1,3-Dichloropropene	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
trans-1,3-Dichloropropene	<0.00282		0.00543	0.00282	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Ethylbenzene	<0.00228		0.00543	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Hexachlorobutadiene	<0.00445		0.00543	0.00445	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
2-Hexanone	<0.0206		0.0272	0.0206	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Iodomethane	<0.00185		0.00543	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Isopropylbenzene	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
4-Isopropyltoluene	<0.00282		0.00543	0.00282	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Methylene Chloride	<0.00869		0.0109	0.00869	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
4-Methyl-2-pentanone (MIBK)	<0.0195		0.0272	0.0195	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Methyl tert-butyl ether	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Naphthalene	**0.00396**	**J**	0.00543	0.00337	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
N-Propylbenzene	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Styrene	<0.00206		0.00543	0.00206	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1,1,2-Tetrachloroethane	<0.00141		0.00543	0.00141	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1,2,2-Tetrachloroethane	<0.00228		0.00543	0.00228	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Tetrachloroethene	**0.133**		0.00543	0.00282	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Toluene	<0.00282		0.00543	0.00282	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2,3-Trichlorobenzene	<0.00217		0.00543	0.00217	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2,4-Trichlorobenzene	<0.00272		0.00543	0.00272	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1,1-Trichloroethane	<0.00282		0.00543	0.00282	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1,2-Trichloroethane	<0.00163		0.00543	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Trichloroethene	**0.00580**		0.00543	0.00195	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Trichlorofluoromethane	<0.00337		0.00543	0.00337	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-BS-02
Date Collected: 03/08/24 09:25
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-6
Matrix: Solid
Percent Solids: 74.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.00195		0.00543	0.00195	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0121		0.00543	0.00315	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,2,4-Trimethylbenzene	<0.00272		0.00543	0.00272	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
1,3,5-Trimethylbenzene	<0.00261		0.00543	0.00261	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Vinyl acetate	<0.00597	*+	0.0109	0.00597	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Vinyl chloride	<0.00304		0.00543	0.00304	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
o-Xylene	<0.00250		0.00543	0.00250	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
m-Xylene & p-Xylene	<0.00239		0.00543	0.00239	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Xylenes, Total	<0.00391		0.0109	0.00391	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Isopropyl ether	<0.00163		0.0109	0.00163	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Hexane	<0.00185		0.00543	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
n-Heptane	<0.00467		0.00543	0.00467	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1
Ethyl acetate	<0.0109		0.0109	0.0109	mg/Kg	☼	03/12/24 09:36	03/13/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:43*	*1*
Dibromofluoromethane (Surr)	*112*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:43*	*1*
4-Bromofluorobenzene (Surr)	*104*		*65 - 130*	*03/12/24 09:36*	*03/13/24 19:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0536		0.431	0.0536	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Acenaphthylene	<0.0470		0.431	0.0470	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Acetophenone	<0.0366		0.431	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Anthracene	<0.0327		0.431	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Atrazine	<0.0301		0.431	0.0301	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Benzaldehyde	<0.0758		0.431	0.0758	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Benzo[a]anthracene	<0.0353		0.431	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Benzo[a]pyrene	<0.0679		0.431	0.0679	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Benzo[b]fluoranthene	<0.0497		0.431	0.0497	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Benzo[g,h,i]perylene	<0.0287		0.431	0.0287	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Benzo[k]fluoranthene	<0.0849		0.431	0.0849	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
1,1'-Biphenyl	<2.22		2.22	2.22	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Bis(2-chloroethoxy)methane	<0.0510		0.431	0.0510	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Bis(2-chloroethyl)ether	<0.0588		0.431	0.0588	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
bis (2-chloroisopropyl) ether	<0.0392		0.431	0.0392	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Bis(2-ethylhexyl) phthalate	<0.0379		0.431	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4-Bromophenyl phenyl ether	<0.0470		0.431	0.0470	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Butyl benzyl phthalate	<0.0340		0.431	0.0340	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Caprolactam	<0.0862		0.431	0.0862	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Carbazole	<0.0392		0.431	0.0392	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4-Chloroaniline	<0.0679		0.862	0.0679	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4-Chloro-3-methylphenol	<0.0457		0.431	0.0457	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2-Chloronaphthalene	<0.0457		0.431	0.0457	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2-Chlorophenol	<0.0523		0.431	0.0523	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4-Chlorophenyl phenyl ether	<0.0575		0.431	0.0575	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Chrysene	<0.0274		0.431	0.0274	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Dibenz(a,h)anthracene	<0.0510		0.431	0.0510	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1

Client Sample ID: WAP-BS-02
Date Collected: 03/08/24 09:25
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-6
Matrix: Solid
Percent Solids: 74.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.0431		0.431	0.0431	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
3,3'-Dichlorobenzidine	<0.0366		0.862	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,4-Dichlorophenol	<0.0457		0.431	0.0457	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Diethyl phthalate	<0.0483		0.431	0.0483	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,4-Dimethylphenol	<0.0575		0.431	0.0575	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Dimethyl phthalate	<0.0444		0.431	0.0444	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Di-n-butyl phthalate	<0.0392		0.431	0.0392	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4,6-Dinitro-2-methylphenol	<0.222		2.22	0.222	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,4-Dinitrophenol	<1.08		2.22	1.08	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,4-Dinitrotoluene	<0.0640		0.431	0.0640	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,6-Dinitrotoluene	<0.0549		0.431	0.0549	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Di-n-octyl phthalate	<0.0379		0.431	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Fluoranthene	<0.0418		0.431	0.0418	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Fluorene	<0.0470		0.431	0.0470	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Hexachlorobenzene	<0.0510		0.431	0.0510	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Hexachlorobutadiene	<0.0470		0.431	0.0470	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Hexachlorocyclopentadiene	<0.0536		0.431	0.0536	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Hexachloroethane	<0.0366		0.431	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Indeno[1,2,3-cd]pyrene	<0.0366		0.431	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Isophorone	<0.0431		0.431	0.0431	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2-Methylnaphthalene	<0.0497		0.431	0.0497	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2-Methylphenol	<0.0353		0.431	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
3 & 4 Methylphenol	<0.0562		0.431	0.0562	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Naphthalene	<0.0392		0.431	0.0392	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2-Nitroaniline	<0.0588		2.22	0.0588	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
3-Nitroaniline	<0.0601		2.22	0.0601	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4-Nitroaniline	<0.0640		2.22	0.0640	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Nitrobenzene	<0.0340		0.431	0.0340	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2-Nitrophenol	<0.0536		0.431	0.0536	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
4-Nitrophenol	<0.431		2.22	0.431	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
N-Nitrosodi-n-propylamine	<0.0418		0.431	0.0418	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
N-Nitrosodiphenylamine	<0.0431		0.431	0.0431	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Pentachlorophenol	<0.431		2.22	0.431	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Phenanthrene	<0.0353		0.431	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Phenol	<0.0444		0.431	0.0444	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Pyrene	<0.0353		0.431	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
Pyridine	<0.431		0.862	0.431	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,4,5-Trichlorophenol	<0.0457		0.431	0.0457	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1
2,4,6-Trichlorophenol	<0.0379		0.431	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/13/24 10:00*	*03/14/24 03:39*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 130*	*03/13/24 10:00*	*03/14/24 03:39*	*1*
Nitrobenzene-d5 (Surr)	*71*		*19 - 130*	*03/13/24 10:00*	*03/14/24 03:39*	*1*
Phenol-d5 (Surr)	*72*		*21 - 130*	*03/13/24 10:00*	*03/14/24 03:39*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/13/24 10:00*	*03/14/24 03:39*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/13/24 10:00*	*03/14/24 03:39*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-DUP-20240308
Date Collected: 03/08/24 00:00
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-7
Matrix: Solid
Percent Solids: 76.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0232**	**J**	0.0463	0.0102	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Benzene	<0.00222		0.00463	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Bromobenzene	<0.00157		0.00463	0.00157	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Chlorobromomethane	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Dichlorobromomethane	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Bromoform	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Bromomethane	<0.00222	*+	0.00463	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
2-Butanone (MEK)	<0.00852		0.0231	0.00852	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
n-Butylbenzene	<0.00176		0.00463	0.00176	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
sec-Butylbenzene	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
tert-Butylbenzene	<0.00231		0.00463	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Carbon disulfide	<0.00194		0.00463	0.00194	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Carbon tetrachloride	<0.00194		0.00463	0.00194	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Chlorobenzene	<0.00130		0.00463	0.00130	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Chloroethane	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Chloroform	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Chloromethane	<0.00222		0.00463	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
2-Chlorotoluene	<0.00213		0.00463	0.00213	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
4-Chlorotoluene	<0.00194		0.00463	0.00194	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Chlorodibromomethane	<0.00194		0.00463	0.00194	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2-Dibromo-3-Chloropropane	<0.00148		0.00926	0.00148	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Ethylene Dibromide	<0.00157		0.00463	0.00157	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Dibromomethane	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2-Dichlorobenzene	<0.00157		0.00463	0.00157	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,3-Dichlorobenzene	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,4-Dichlorobenzene	<0.00167		0.00463	0.00167	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
trans-1,4-Dichloro-2-butene	<0.00222		0.00926	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Dichlorodifluoromethane	<0.00296		0.00463	0.00296	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1-Dichloroethane	<0.00268		0.00463	0.00268	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2-Dichloroethane	<0.00213		0.00463	0.00213	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
cis-1,2-Dichloroethene	**0.0296**		0.00463	0.00268	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
trans-1,2-Dichloroethene	<0.00213		0.00463	0.00213	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1-Dichloroethene	**0.0174**		0.00463	0.00333	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2-Dichloropropane	<0.00241		0.00463	0.00241	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,3-Dichloropropane	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
2,2-Dichloropropane	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1-Dichloropropene	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
cis-1,3-Dichloropropene	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
trans-1,3-Dichloropropene	<0.00241		0.00463	0.00241	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Ethylbenzene	**0.00387**	**J**	0.00463	0.00194	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Hexachlorobutadiene	<0.00380		0.00463	0.00380	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
2-Hexanone	<0.0176		0.0231	0.0176	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Iodomethane	<0.00157		0.00463	0.00157	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Isopropylbenzene	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
4-Isopropyltoluene	<0.00241		0.00463	0.00241	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Methylene Chloride	<0.00741		0.00926	0.00741	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
4-Methyl-2-pentanone (MIBK)	<0.0167		0.0231	0.0167	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Methyl tert-butyl ether	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Naphthalene	**0.00489**		0.00463	0.00287	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-DUP-20240308
Date Collected: 03/08/24 00:00
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-7
Matrix: Solid
Percent Solids: 76.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00204		0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Styrene	<0.00176		0.00463	0.00176	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1,1,2-Tetrachloroethane	<0.00120		0.00463	0.00120	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1,2,2-Tetrachloroethane	<0.00194		0.00463	0.00194	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Toluene	<0.00241		0.00463	0.00241	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2,3-Trichlorobenzene	<0.00185		0.00463	0.00185	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2,4-Trichlorobenzene	<0.00231		0.00463	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1,1-Trichloroethane	<0.00241		0.00463	0.00241	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,1,2-Trichloroethane	<0.00139		0.00463	0.00139	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Trichlorofluoromethane	<0.00287		0.00463	0.00287	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2,3-Trichloropropane	<0.00167		0.00463	0.00167	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,2,4-Trimethylbenzene	**0.00436**	**J**	0.00463	0.00231	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
1,3,5-Trimethylbenzene	<0.00222		0.00463	0.00222	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Vinyl acetate	<0.00509	*+	0.00926	0.00509	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Vinyl chloride	<0.00259		0.00463	0.00259	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
o-Xylene	**0.00623**		0.00463	0.00213	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
m-Xylene & p-Xylene	**0.00231**	**J**	0.00463	0.00204	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Xylenes, Total	**0.00854**	**J**	0.00926	0.00333	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Isopropyl ether	<0.00139		0.00926	0.00139	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Hexane	**0.00189**	**J**	0.00463	0.00157	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
n-Heptane	<0.00398		0.00463	0.00398	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1
Ethyl acetate	<0.00926		0.00926	0.00926	mg/Kg	☼	03/12/24 09:36	03/13/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*03/12/24 09:36*	*03/13/24 20:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 130*	*03/12/24 09:36*	*03/13/24 20:05*	*1*
Dibromofluoromethane (Surr)	*109*		*65 - 130*	*03/12/24 09:36*	*03/13/24 20:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*65 - 130*	*03/12/24 09:36*	*03/13/24 20:05*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**13.3**		0.520	0.270	mg/Kg	☼	03/12/24 09:36	03/14/24 16:11	100
Trichloroethene	<0.187		0.520	0.187	mg/Kg	☼	03/12/24 09:36	03/14/24 16:11	100
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.56**		0.520	0.302	mg/Kg	☼	03/12/24 09:36	03/14/24 16:11	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*120*		*65 - 130*	*03/12/24 09:36*	*03/14/24 16:11*	*100*
1,2-Dichloroethane-d4 (Surr)	*116*		*65 - 130*	*03/12/24 09:36*	*03/14/24 16:11*	*100*
Dibromofluoromethane (Surr)	*117*		*65 - 130*	*03/12/24 09:36*	*03/14/24 16:11*	*100*
4-Bromofluorobenzene (Surr)	*115*		*65 - 130*	*03/12/24 09:36*	*03/14/24 16:11*	*100*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0524		0.422	0.0524	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Acenaphthylene	<0.0460		0.422	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Acetophenone	<0.0358		0.422	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Anthracene	<0.0320		0.422	0.0320	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Atrazine	<0.0294		0.422	0.0294	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Benzaldehyde	<0.0741		0.422	0.0741	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Benzo[a]anthracene	<0.0345		0.422	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1

Client: Terracon Consultants, Inc.
Job ID: 680-247827-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: WAP-DUP-20240308
Lab Sample ID: 680-247827-7
Date Collected: 03/08/24 00:00
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0665		0.422	0.0665	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Benzo[b]fluoranthene	<0.0486		0.422	0.0486	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Benzo[g,h,i]perylene	<0.0281		0.422	0.0281	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Benzo[k]fluoranthene	<0.0831		0.422	0.0831	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
1,1'-Biphenyl	<2.17		2.17	2.17	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Bis(2-chloroethoxy)methane	<0.0499		0.422	0.0499	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Bis(2-chloroethyl)ether	<0.0575		0.422	0.0575	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
bis (2-chloroisopropyl) ether	<0.0384		0.422	0.0384	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Bis(2-ethylhexyl) phthalate	<0.0371		0.422	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
4-Bromophenyl phenyl ether	<0.0460		0.422	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Butyl benzyl phthalate	<0.0332		0.422	0.0332	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Caprolactam	<0.0844		0.422	0.0844	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Carbazole	<0.0384		0.422	0.0384	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
4-Chloroaniline	<0.0665		0.844	0.0665	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
4-Chloro-3-methylphenol	<0.0447		0.422	0.0447	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2-Chloronaphthalene	<0.0447		0.422	0.0447	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2-Chlorophenol	<0.0511		0.422	0.0511	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
4-Chlorophenyl phenyl ether	<0.0563		0.422	0.0563	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Chrysene	<0.0268		0.422	0.0268	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Dibenz(a,h)anthracene	<0.0499		0.422	0.0499	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Dibenzofuran	<0.0422		0.422	0.0422	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
3,3'-Dichlorobenzidine	<0.0358		0.844	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,4-Dichlorophenol	<0.0447		0.422	0.0447	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Diethyl phthalate	<0.0473		0.422	0.0473	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,4-Dimethylphenol	<0.0563		0.422	0.0563	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Dimethyl phthalate	<0.0435		0.422	0.0435	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Di-n-butyl phthalate	<0.0384		0.422	0.0384	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
4,6-Dinitro-2-methylphenol	<0.217		2.17	0.217	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,4-Dinitrophenol	<1.06		2.17	1.06	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,4-Dinitrotoluene	<0.0626		0.422	0.0626	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,6-Dinitrotoluene	<0.0537		0.422	0.0537	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Di-n-octyl phthalate	<0.0371		0.422	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Fluoranthene	<0.0409		0.422	0.0409	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Fluorene	<0.0460		0.422	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Hexachlorobenzene	<0.0499		0.422	0.0499	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Hexachlorobutadiene	<0.0460		0.422	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Hexachlorocyclopentadiene	<0.0524		0.422	0.0524	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Hexachloroethane	<0.0358		0.422	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Indeno[1,2,3-cd]pyrene	<0.0358		0.422	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Isophorone	<0.0422		0.422	0.0422	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2-Methylnaphthalene	<0.0486		0.422	0.0486	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2-Methylphenol	<0.0345		0.422	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
3 & 4 Methylphenol	<0.0550		0.422	0.0550	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Naphthalene	<0.0384		0.422	0.0384	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2-Nitroaniline	<0.0575		2.17	0.0575	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
3-Nitroaniline	<0.0588		2.17	0.0588	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
4-Nitroaniline	<0.0626		2.17	0.0626	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Nitrobenzene	<0.0332		0.422	0.0332	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2-Nitrophenol	<0.0524		0.422	0.0524	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-DUP-20240308

Lab Sample ID: 680-247827-7

Date Collected: 03/08/24 00:00
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.422		2.17	0.422	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
N-Nitrosodi-n-propylamine	<0.0409		0.422	0.0409	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
N-Nitrosodiphenylamine	<0.0422		0.422	0.0422	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Pentachlorophenol	<0.422		2.17	0.422	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Phenanthrene	<0.0345		0.422	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Phenol	<0.0435		0.422	0.0435	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Pyrene	<0.0345		0.422	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
Pyridine	<0.422		0.844	0.422	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,4,5-Trichlorophenol	<0.0447		0.422	0.0447	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1
2,4,6-Trichlorophenol	<0.0371		0.422	0.0371	mg/Kg	☼	03/13/24 10:00	03/14/24 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*25 - 130*	*03/13/24 10:00*	*03/14/24 04:05*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 130*	*03/13/24 10:00*	*03/14/24 04:05*	*1*
Nitrobenzene-d5 (Surr)	*69*		*19 - 130*	*03/13/24 10:00*	*03/14/24 04:05*	*1*
Phenol-d5 (Surr)	*70*		*21 - 130*	*03/13/24 10:00*	*03/14/24 04:05*	*1*
Terphenyl-d14 (Surr)	*72*		*31 - 133*	*03/13/24 10:00*	*03/14/24 04:05*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*21 - 132*	*03/13/24 10:00*	*03/14/24 04:05*	*1*

Client Sample ID: Trip Blank - 20240308a

Lab Sample ID: 680-247827-8

Date Collected: 03/08/24 00:00
Matrix: Water
Date Received: 03/09/24 09:33

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/11/24 18:42	1
Benzene	<0.270		1.00	0.270	ug/L			03/11/24 18:42	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/11/24 18:42	1
Bromoform	<0.590		1.00	0.590	ug/L			03/11/24 18:42	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/11/24 18:42	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/11/24 18:42	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/11/24 18:42	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/11/24 18:42	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/11/24 18:42	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/11/24 18:42	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/11/24 18:42	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/11/24 18:42	1
Chloroform	<0.270		1.00	0.270	ug/L			03/11/24 18:42	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/11/24 18:42	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/11/24 18:42	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/11/24 18:42	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/11/24 18:42	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/11/24 18:42	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/11/24 18:42	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/11/24 18:42	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 18:42	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 18:42	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 18:42	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/11/24 18:42	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			03/11/24 18:42	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: Trip Blank - 20240308a
Date Collected: 03/08/24 00:00
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247827-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/11/24 18:42	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/11/24 18:42	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/11/24 18:42	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/11/24 18:42	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/11/24 18:42	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/11/24 18:42	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/11/24 18:42	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/11/24 18:42	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/11/24 18:42	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/11/24 18:42	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/11/24 18:42	1
Hexane	<0.650		5.00	0.650	ug/L			03/11/24 18:42	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/11/24 18:42	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/11/24 18:42	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/11/24 18:42	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/11/24 18:42	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/11/24 18:42	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/11/24 18:42	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/11/24 18:42	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/11/24 18:42	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/11/24 18:42	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/11/24 18:42	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/11/24 18:42	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/11/24 18:42	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/11/24 18:42	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/11/24 18:42	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/11/24 18:42	1
Styrene	<0.270		1.00	0.270	ug/L			03/11/24 18:42	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 18:42	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/11/24 18:42	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/11/24 18:42	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/11/24 18:42	1
Toluene	<0.250		1.00	0.250	ug/L			03/11/24 18:42	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/11/24 18:42	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/11/24 18:42	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/11/24 18:42	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/11/24 18:42	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/11/24 18:42	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/11/24 18:42	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/11/24 18:42	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/11/24 18:42	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/11/24 18:42	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/11/24 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/11/24 18:42	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 18:42	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/11/24 18:42	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/11/24 18:42	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/11/24 18:42	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/11/24 18:42	1

Client: Terracon Consultants, Inc.
Job ID: 680-247827-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: Trip Blank - 20240308a
Lab Sample ID: 680-247827-8
Date Collected: 03/08/24 00:00
Matrix: Water
Date Received: 03/09/24 09:33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		03/11/24 18:42	1
Dibromofluoromethane (Surr)	97		70 - 130		03/11/24 18:42	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 124		03/11/24 18:42	1
Toluene-d8 (Surr)	95		70 - 130		03/11/24 18:42	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-826833/10
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/11/24 13:17	1
Benzene	<0.270		1.00	0.270	ug/L			03/11/24 13:17	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/11/24 13:17	1
Bromoform	<0.590		1.00	0.590	ug/L			03/11/24 13:17	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/11/24 13:17	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/11/24 13:17	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/11/24 13:17	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/11/24 13:17	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/11/24 13:17	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/11/24 13:17	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/11/24 13:17	1
Chloroform	<0.270		1.00	0.270	ug/L			03/11/24 13:17	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/11/24 13:17	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/11/24 13:17	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/11/24 13:17	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/11/24 13:17	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/11/24 13:17	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 13:17	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 13:17	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 13:17	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/11/24 13:17	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/11/24 13:17	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/11/24 13:17	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/11/24 13:17	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/11/24 13:17	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/11/24 13:17	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/11/24 13:17	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/11/24 13:17	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/11/24 13:17	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/11/24 13:17	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/11/24 13:17	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/11/24 13:17	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/11/24 13:17	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/11/24 13:17	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/11/24 13:17	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/11/24 13:17	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/11/24 13:17	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/11/24 13:17	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/11/24 13:17	1
Styrene	<0.270		1.00	0.270	ug/L			03/11/24 13:17	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 13:17	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-826833/10
Matrix: Water
Analysis Batch: 826833

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			03/11/24 13:17	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/11/24 13:17	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/11/24 13:17	1
Toluene	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/11/24 13:17	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/11/24 13:17	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/11/24 13:17	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/11/24 13:17	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/11/24 13:17	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/11/24 13:17	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/11/24 13:17	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/11/24 13:17	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/11/24 13:17	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/11/24 13:17	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/11/24 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/11/24 13:17	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/11/24 13:17	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 13:17	1
Hexane	<0.650		5.00	0.650	ug/L			03/11/24 13:17	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/11/24 13:17	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/11/24 13:17	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/11/24 13:17	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/11/24 13:17	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/11/24 13:17	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/11/24 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/11/24 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*03/11/24 13:17*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/11/24 13:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/11/24 13:17*	*1*

Lab Sample ID: LCS 680-826833/6
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	199.1		ug/L		80	67 - 120
Benzene	50.0	52.82		ug/L		106	70 - 130
Bromobenzene	50.0	56.93		ug/L		114	70 - 130
Bromoform	50.0	40.11		ug/L		80	69 - 129
Bromomethane	50.0	64.30		ug/L		129	28 - 192
2-Butanone (MEK)	250	174.6		ug/L		70	69 - 120
Chlorobromomethane	50.0	51.77		ug/L		104	70 - 130
Carbon disulfide	50.0	60.59		ug/L		121	70 - 130
Carbon tetrachloride	50.0	40.84		ug/L		82	70 - 130
Chlorobenzene	50.0	53.01		ug/L		106	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-826833/6
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	68.78		ug/L		138	31 - 213
Chloroform	50.0	47.64		ug/L		95	70 - 130
Chloromethane	50.0	65.65	*+	ug/L		131	59 - 127
2-Chlorotoluene	50.0	59.13		ug/L		118	70 - 130
4-Chlorotoluene	50.0	59.51		ug/L		119	70 - 130
Chlorodibromomethane	50.0	45.82		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	28.06	*-	ug/L		56	70 - 130
Dibromomethane	50.0	46.95		ug/L		94	70 - 130
1,2-Dichlorobenzene	50.0	50.53		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	54.25		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	53.48		ug/L		107	70 - 130
Dichlorobromomethane	50.0	43.70		ug/L		87	70 - 130
Dichlorodifluoromethane	50.0	73.04	*+	ug/L		146	70 - 130
1,1-Dichloroethane	50.0	53.55		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	42.40		ug/L		85	70 - 130
cis-1,2-Dichloroethene	50.0	50.54		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	58.38		ug/L		117	70 - 130
1,2-Dichloropropane	50.0	52.52		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	51.75		ug/L		104	70 - 130
2,2-Dichloropropane	50.0	47.06		ug/L		94	70 - 130
1,1-Dichloropropene	50.0	54.35		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	50.24		ug/L		100	70 - 130
Ethylene Dibromide	50.0	51.13		ug/L		102	70 - 130
Ethylbenzene	50.0	52.18		ug/L		104	70 - 130
Hexachlorobutadiene	50.0	50.60		ug/L		101	70 - 130
2-Hexanone	250	182.3		ug/L		73	70 - 130
Iodomethane	50.0	58.46		ug/L		117	52 - 129
Isopropylbenzene	50.0	54.15		ug/L		108	70 - 130
4-Isopropyltoluene	50.0	56.73		ug/L		113	70 - 130
Methylene Chloride	50.0	51.04		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	250	198.9		ug/L		80	68 - 120
Methyl tert-butyl ether	50.0	40.16		ug/L		80	70 - 130
Naphthalene	50.0	40.52		ug/L		81	57 - 149
n-Butylbenzene	50.0	55.91		ug/L		112	70 - 130
N-Propylbenzene	50.0	56.23		ug/L		112	70 - 130
sec-Butylbenzene	50.0	55.64		ug/L		111	70 - 130
Styrene	50.0	59.46		ug/L		119	70 - 130
tert-Butylbenzene	50.0	55.76		ug/L		112	70 - 130
1,1,1,2-Tetrachloroethane	50.0	45.81		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.39		ug/L		87	70 - 130
Tetrachloroethene	50.0	49.02		ug/L		98	70 - 130
Toluene	50.0	51.06		ug/L		102	70 - 130
trans-1,4-Dichloro-2-butene	50.0	35.05		ug/L		70	67 - 120
trans-1,2-Dichloroethene	50.0	53.76		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	48.00		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	50.0	45.60		ug/L		91	61 - 141
1,2,4-Trichlorobenzene	50.0	48.10		ug/L		96	70 - 130
1,1,1-Trichloroethane	50.0	43.64		ug/L		87	70 - 130
o-Xylene	50.0	53.47		ug/L		107	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-826833/6
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	50.0	52.73		ug/L		105	70 - 130
m-Xylene & p-Xylene	50.0	53.18		ug/L		106	70 - 130
Trichloroethene	50.0	50.43		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	87.76	*+	ug/L		176	63 - 142
1,2,3-Trichloropropane	50.0	43.19		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.23		ug/L		98	63 - 141
1,2,4-Trimethylbenzene	50.0	57.69		ug/L		115	70 - 130
Hexane	50.0	59.67		ug/L		119	70 - 130
1,3,5-Trimethylbenzene	50.0	58.52		ug/L		117	70 - 130
n-Heptane	50.0	58.53		ug/L		117	65 - 120
Vinyl acetate	100	72.58		ug/L		73	67 - 135
Vinyl chloride	50.0	71.67	*+	ug/L		143	66 - 129
Xylenes, Total	100	106.7		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-826833/7
Matrix: Water
Analysis Batch: 826833

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
Acetone	250	206.1		ug/L		82	67 - 120	3	30
Benzene	50.0	52.86		ug/L		106	70 - 130	0	30
Bromobenzene	50.0	58.51		ug/L		117	70 - 130	3	30
Bromoform	50.0	40.83		ug/L		82	69 - 129	2	30
Bromomethane	50.0	62.99		ug/L		126	28 - 192	2	30
2-Butanone (MEK)	250	178.6		ug/L		71	69 - 120	2	30
Chlorobromomethane	50.0	52.65		ug/L		105	70 - 130	2	30
Carbon disulfide	50.0	59.90		ug/L		120	70 - 130	1	30
Carbon tetrachloride	50.0	39.84		ug/L		80	70 - 130	2	30
Chlorobenzene	50.0	52.86		ug/L		106	70 - 130	0	30
Chloroethane	50.0	64.55		ug/L		129	31 - 213	6	30
Chloroform	50.0	47.03		ug/L		94	70 - 130	1	30
Chloromethane	50.0	65.36	*+	ug/L		131	59 - 127	0	30
2-Chlorotoluene	50.0	59.71		ug/L		119	70 - 130	1	30
4-Chlorotoluene	50.0	60.30		ug/L		121	70 - 130	1	30
Chlorodibromomethane	50.0	46.64		ug/L		93	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	28.78	*-	ug/L		58	70 - 130	3	30
Dibromomethane	50.0	47.68		ug/L		95	70 - 130	2	30
1,2-Dichlorobenzene	50.0	50.89		ug/L		102	70 - 130	1	30
1,3-Dichlorobenzene	50.0	54.70		ug/L		109	70 - 130	1	30
1,4-Dichlorobenzene	50.0	53.90		ug/L		108	70 - 130	1	30
Dichlorobromomethane	50.0	43.70		ug/L		87	70 - 130	0	30
Dichlorodifluoromethane	50.0	72.65	*+	ug/L		145	70 - 130	1	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-826833/7
Matrix: Water
Analysis Batch: 826833

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-Dichloroethane	50.0	53.45		ug/L		107	70 - 130	0	30
1,2-Dichloroethane	50.0	43.36		ug/L		87	70 - 130	2	50
cis-1,2-Dichloroethene	50.0	50.95		ug/L		102	70 - 130	1	30
1,1-Dichloroethene	50.0	57.34		ug/L		115	70 - 130	2	20
1,2-Dichloropropane	50.0	52.95		ug/L		106	70 - 130	1	20
1,3-Dichloropropane	50.0	52.87		ug/L		106	70 - 130	2	20
2,2-Dichloropropane	50.0	46.48		ug/L		93	70 - 130	1	20
1,1-Dichloropropene	50.0	52.93		ug/L		106	70 - 130	3	20
cis-1,3-Dichloropropene	50.0	50.28		ug/L		101	70 - 130	0	20
Ethylene Dibromide	50.0	52.29		ug/L		105	70 - 130	2	30
Ethylbenzene	50.0	51.87		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	50.0	49.73		ug/L		99	70 - 130	2	20
2-Hexanone	250	193.9		ug/L		78	70 - 130	6	20
Iodomethane	50.0	58.62		ug/L		117	52 - 129	0	30
Isopropylbenzene	50.0	53.76		ug/L		108	70 - 130	1	30
4-Isopropyltoluene	50.0	56.46		ug/L		113	70 - 130	0	30
Methylene Chloride	50.0	50.66		ug/L		101	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	250	209.9		ug/L		84	68 - 120	5	30
Methyl tert-butyl ether	50.0	41.23		ug/L		82	70 - 130	3	30
Naphthalene	50.0	41.01		ug/L		82	57 - 149	1	30
n-Butylbenzene	50.0	55.09		ug/L		110	70 - 130	1	30
N-Propylbenzene	50.0	56.00		ug/L		112	70 - 130	0	30
sec-Butylbenzene	50.0	56.38		ug/L		113	70 - 130	1	30
Styrene	50.0	59.81		ug/L		120	70 - 130	1	30
tert-Butylbenzene	50.0	55.74		ug/L		111	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	45.92		ug/L		92	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	44.05		ug/L		88	70 - 130	1	30
Tetrachloroethene	50.0	48.25		ug/L		96	70 - 130	2	30
Toluene	50.0	51.08		ug/L		102	70 - 130	0	30
trans-1,4-Dichloro-2-butene	50.0	36.64		ug/L		73	67 - 120	4	30
trans-1,2-Dichloroethene	50.0	53.39		ug/L		107	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	48.90		ug/L		98	70 - 130	2	30
1,2,3-Trichlorobenzene	50.0	46.09		ug/L		92	61 - 141	1	30
1,2,4-Trichlorobenzene	50.0	48.55		ug/L		97	70 - 130	1	30
1,1,1-Trichloroethane	50.0	43.44		ug/L		87	70 - 130	0	30
o-Xylene	50.0	53.51		ug/L		107	70 - 130	0	30
1,1,2-Trichloroethane	50.0	53.56		ug/L		107	70 - 130	2	30
m-Xylene & p-Xylene	50.0	53.13		ug/L		106	70 - 130	0	30
Trichloroethene	50.0	50.46		ug/L		101	70 - 130	0	30
Trichlorofluoromethane	50.0	87.06	*+	ug/L		174	63 - 142	1	30
1,2,3-Trichloropropane	50.0	44.33		ug/L		89	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.61		ug/L		97	63 - 141	1	30
1,2,4-Trimethylbenzene	50.0	58.37		ug/L		117	70 - 130	1	30
Hexane	50.0	59.09		ug/L		118	70 - 130	1	30
1,3,5-Trimethylbenzene	50.0	59.40		ug/L		119	70 - 130	1	30
n-Heptane	50.0	58.14		ug/L		116	65 - 120	1	30
Vinyl acetate	100	71.15		ug/L		71	67 - 135	2	30
Vinyl chloride	50.0	70.89	*+	ug/L		142	66 - 129	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-826833/7
Matrix: Water
Analysis Batch: 826833

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
Xylenes, Total			100	106.6		ug/L		107	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-827257/7
Matrix: Solid
Analysis Batch: 827257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/13/24 14:48	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/13/24 14:48	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/13/24 14:48	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/13/24 14:48	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/13/24 14:48	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/13/24 14:48	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/13/24 14:48	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/13/24 14:48	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/13/24 14:48	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/13/24 14:48	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/13/24 14:48	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/13/24 14:48	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/13/24 14:48	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/13/24 14:48	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/13/24 14:48	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/13/24 14:48	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/13/24 14:48	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/13/24 14:48	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/13/24 14:48	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/13/24 14:48	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/13/24 14:48	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/13/24 14:48	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/13/24 14:48	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/13/24 14:48	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-827257/7
Matrix: Solid
Analysis Batch: 827257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/13/24 14:48	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/13/24 14:48	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/13/24 14:48	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/13/24 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/13/24 14:48	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/13/24 14:48	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/13/24 14:48	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/13/24 14:48	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/13/24 14:48	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/13/24 14:48	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/13/24 14:48	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/13/24 14:48	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/13/24 14:48	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/13/24 14:48	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/13/24 14:48	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/13/24 14:48	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/13/24 14:48	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/13/24 14:48	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/13/24 14:48	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/13/24 14:48	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/13/24 14:48	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/13/24 14:48	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/13/24 14:48	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/13/24 14:48	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/13/24 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/13/24 14:48	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/13/24 14:48	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/13/24 14:48	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/13/24 14:48	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/13/24 14:48	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/13/24 14:48	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/13/24 14:48	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/13/24 14:48	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/13/24 14:48	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/13/24 14:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*		*03/13/24 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 130*		*03/13/24 14:48*	*1*
Dibromofluoromethane (Surr)	*116*		*65 - 130*		*03/13/24 14:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*		*03/13/24 14:48*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827257/5
Matrix: Solid
Analysis Batch: 827257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2597		mg/Kg		104	10 - 150
Benzene	0.0500	0.05290		mg/Kg		106	70 - 130
Bromobenzene	0.0500	0.05703		mg/Kg		114	70 - 130
Bromoform	0.0500	0.04975		mg/Kg		99	68 - 130
Bromomethane	0.0500	0.06380		mg/Kg		128	70 - 130
2-Butanone (MEK)	0.250	0.2475		mg/Kg		99	40 - 150
Chlorobromomethane	0.0500	0.05236		mg/Kg		105	66 - 130
Carbon disulfide	0.0500	0.05598		mg/Kg		112	70 - 130
Carbon tetrachloride	0.0500	0.05690		mg/Kg		114	70 - 130
Chlorobenzene	0.0500	0.05590		mg/Kg		112	70 - 130
Chloroethane	0.0500	0.04967		mg/Kg		99	70 - 130
Chloroform	0.0500	0.05420		mg/Kg		108	70 - 130
Chloromethane	0.0500	0.05064		mg/Kg		101	70 - 130
2-Chlorotoluene	0.0500	0.05828		mg/Kg		117	70 - 130
4-Chlorotoluene	0.0500	0.05881		mg/Kg		118	70 - 130
Chlorodibromomethane	0.0500	0.05147		mg/Kg		103	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04756		mg/Kg		95	42 - 145
Dibromomethane	0.0500	0.05337		mg/Kg		107	59 - 142
1,2-Dichlorobenzene	0.0500	0.05350		mg/Kg		107	70 - 130
1,3-Dichlorobenzene	0.0500	0.05695		mg/Kg		114	70 - 130
1,4-Dichlorobenzene	0.0500	0.05715		mg/Kg		114	70 - 130
Dichlorobromomethane	0.0500	0.05329		mg/Kg		107	70 - 130
Dichlorodifluoromethane	0.0500	0.05363		mg/Kg		107	43 - 131
1,1-Dichloroethane	0.0500	0.05322		mg/Kg		106	70 - 130
1,2-Dichloroethane	0.0500	0.05425		mg/Kg		108	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05362		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0500	0.05015		mg/Kg		100	69 - 130
1,2-Dichloropropane	0.0500	0.05031		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0500	0.05081		mg/Kg		102	54 - 150
2,2-Dichloropropane	0.0500	0.05667		mg/Kg		113	70 - 130
1,1-Dichloropropene	0.0500	0.05484		mg/Kg		110	70 - 130
cis-1,3-Dichloropropene	0.0500	0.05109		mg/Kg		102	70 - 130
Ethylene Dibromide	0.0500	0.05128		mg/Kg		103	48 - 150
Ethylbenzene	0.0500	0.05760		mg/Kg		115	70 - 130
Hexachlorobutadiene	0.0500	0.06186		mg/Kg		124	70 - 130
2-Hexanone	0.250	0.2309		mg/Kg		92	30 - 150
Iodomethane	0.0500	0.05824		mg/Kg		116	65 - 138
Isopropylbenzene	0.0500	0.05923		mg/Kg		118	70 - 130
4-Isopropyltoluene	0.0500	0.06179		mg/Kg		124	70 - 130
Methylene Chloride	0.0500	0.05381		mg/Kg		108	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2279		mg/Kg		91	34 - 150
Methyl tert-butyl ether	0.0500	0.04833		mg/Kg		97	70 - 130
Naphthalene	0.0500	0.04735		mg/Kg		95	46 - 150
n-Butylbenzene	0.0500	0.06332		mg/Kg		127	70 - 130
N-Propylbenzene	0.0500	0.06153		mg/Kg		123	70 - 130
sec-Butylbenzene	0.0500	0.06202		mg/Kg		124	69 - 142
Styrene	0.0500	0.05677		mg/Kg		114	70 - 130
tert-Butylbenzene	0.0500	0.05957		mg/Kg		119	67 - 145

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827257/5
Matrix: Solid
Analysis Batch: 827257

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	0.0500	0.05271		mg/Kg		105	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05519		mg/Kg		110	64 - 130
Tetrachloroethene	0.0500	0.05716		mg/Kg		114	70 - 130
Toluene	0.0500	0.05417		mg/Kg		108	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04636		mg/Kg		93	54 - 150
trans-1,2-Dichloroethene	0.0500	0.05510		mg/Kg		110	67 - 130
trans-1,3-Dichloropropene	0.0500	0.05131		mg/Kg		103	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.05159		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.05361		mg/Kg		107	70 - 130
1,1,1-Trichloroethane	0.0500	0.05566		mg/Kg		111	70 - 130
o-Xylene	0.0500	0.05738		mg/Kg		115	70 - 130
1,1,2-Trichloroethane	0.0500	0.05003		mg/Kg		100	56 - 146
m-Xylene & p-Xylene	0.0500	0.05704		mg/Kg		114	70 - 130
Trichloroethene	0.0500	0.05023		mg/Kg		100	70 - 130
Trichlorofluoromethane	0.0500	0.05501		mg/Kg		110	70 - 130
1,2,3-Trichloropropane	0.0500	0.05005		mg/Kg		100	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05422		mg/Kg		108	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.06116		mg/Kg		122	70 - 130
Hexane	0.0500	0.05349		mg/Kg		107	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.06072		mg/Kg		121	70 - 130
n-Heptane	0.0500	0.05009		mg/Kg		100	70 - 130
Vinyl acetate	0.100	0.1705	*+	mg/Kg		171	53 - 150
Vinyl chloride	0.0500	0.05077		mg/Kg		102	70 - 130
Xylenes, Total	0.100	0.1144		mg/Kg		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 130*
Dibromofluoromethane (Surr)	*109*		*65 - 130*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*

Lab Sample ID: LCSD 680-827257/22
Matrix: Solid
Analysis Batch: 827257

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
Acetone	0.250	0.2566		mg/Kg		103	10 - 150	1	50
Benzene	0.0500	0.05080		mg/Kg		102	70 - 130	4	30
Bromobenzene	0.0500	0.05257		mg/Kg		105	70 - 130	8	30
Bromoform	0.0500	0.05083		mg/Kg		102	68 - 130	2	30
Bromomethane	0.0500	0.07007	*+	mg/Kg		140	70 - 130	9	30
2-Butanone (MEK)	0.250	0.2483		mg/Kg		99	40 - 150	0	30
Chlorobromomethane	0.0500	0.05339		mg/Kg		107	66 - 130	2	30
Carbon disulfide	0.0500	0.05258		mg/Kg		105	70 - 130	6	30
Carbon tetrachloride	0.0500	0.05273		mg/Kg		105	70 - 130	8	30
Chlorobenzene	0.0500	0.05281		mg/Kg		106	70 - 130	6	30
Chloroethane	0.0500	0.04815		mg/Kg		96	70 - 130	3	30
Chloroform	0.0500	0.05311		mg/Kg		106	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827257/22
Matrix: Solid
Analysis Batch: 827257

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
Chloromethane	0.0500	0.04752		mg/Kg		95	70 - 130	6	30
2-Chlorotoluene	0.0500	0.05169		mg/Kg		103	70 - 130	12	30
4-Chlorotoluene	0.0500	0.05068		mg/Kg		101	70 - 130	15	30
Chlorodibromomethane	0.0500	0.05214		mg/Kg		104	64 - 133	1	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04962		mg/Kg		99	42 - 145	4	30
Dibromomethane	0.0500	0.05483		mg/Kg		110	59 - 142	3	30
1,2-Dichlorobenzene	0.0500	0.05249		mg/Kg		105	70 - 130	2	30
1,3-Dichlorobenzene	0.0500	0.05357		mg/Kg		107	70 - 130	6	30
1,4-Dichlorobenzene	0.0500	0.05306		mg/Kg		106	70 - 130	7	30
Dichlorobromomethane	0.0500	0.05305		mg/Kg		106	70 - 130	0	30
Dichlorodifluoromethane	0.0500	0.05747		mg/Kg		115	43 - 131	7	30
1,1-Dichloroethane	0.0500	0.05096		mg/Kg		102	70 - 130	4	30
1,2-Dichloroethane	0.0500	0.05520		mg/Kg		110	68 - 139	2	30
cis-1,2-Dichloroethene	0.0500	0.05106		mg/Kg		102	70 - 130	5	30
1,1-Dichloroethene	0.0500	0.05117		mg/Kg		102	69 - 130	2	50
1,2-Dichloropropane	0.0500	0.04990		mg/Kg		100	70 - 130	1	30
1,3-Dichloropropane	0.0500	0.05150		mg/Kg		103	54 - 150	1	30
2,2-Dichloropropane	0.0500	0.05197		mg/Kg		104	70 - 130	9	30
1,1-Dichloropropene	0.0500	0.05152		mg/Kg		103	70 - 130	6	30
cis-1,3-Dichloropropene	0.0500	0.05049		mg/Kg		101	70 - 130	1	30
Ethylene Dibromide	0.0500	0.05146		mg/Kg		103	48 - 150	0	30
Ethylbenzene	0.0500	0.05258		mg/Kg		105	70 - 130	9	30
Hexachlorobutadiene	0.0500	0.04765		mg/Kg		95	70 - 130	26	30
2-Hexanone	0.250	0.2228		mg/Kg		89	30 - 150	4	30
Iodomethane	0.0500	0.05774		mg/Kg		115	65 - 138	1	30
Isopropylbenzene	0.0500	0.05181		mg/Kg		104	70 - 130	13	30
4-Isopropyltoluene	0.0500	0.05395		mg/Kg		108	70 - 130	14	30
Methylene Chloride	0.0500	0.05286		mg/Kg		106	54 - 149	2	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2281		mg/Kg		91	34 - 150	0	30
Methyl tert-butyl ether	0.0500	0.05094		mg/Kg		102	70 - 130	5	30
Naphthalene	0.0500	0.04744		mg/Kg		95	46 - 150	0	30
n-Butylbenzene	0.0500	0.05173		mg/Kg		103	70 - 130	20	30
N-Propylbenzene	0.0500	0.05166		mg/Kg		103	70 - 130	17	30
sec-Butylbenzene	0.0500	0.05082		mg/Kg		102	69 - 142	20	30
Styrene	0.0500	0.05335		mg/Kg		107	70 - 130	6	30
tert-Butylbenzene	0.0500	0.05183		mg/Kg		104	67 - 145	14	30
1,1,1,2-Tetrachloroethane	0.0500	0.05231		mg/Kg		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.05674		mg/Kg		113	64 - 130	3	30
Tetrachloroethene	0.0500	0.06378		mg/Kg		128	70 - 130	11	30
Toluene	0.0500	0.05143		mg/Kg		103	70 - 130	5	30
trans-1,4-Dichloro-2-butene	0.0500	0.04761		mg/Kg		95	54 - 150	3	30
trans-1,2-Dichloroethene	0.0500	0.05114		mg/Kg		102	67 - 130	7	30
trans-1,3-Dichloropropene	0.0500	0.05200		mg/Kg		104	54 - 150	1	30
1,2,3-Trichlorobenzene	0.0500	0.04595		mg/Kg		92	70 - 130	12	30
1,2,4-Trichlorobenzene	0.0500	0.04576		mg/Kg		92	70 - 130	16	30
1,1,1-Trichloroethane	0.0500	0.05275		mg/Kg		106	70 - 130	5	30
o-Xylene	0.0500	0.05303		mg/Kg		106	70 - 130	8	30
1,1,2-Trichloroethane	0.0500	0.05206		mg/Kg		104	56 - 146	4	30
m-Xylene & p-Xylene	0.0500	0.05171		mg/Kg		103	70 - 130	10	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827257/22
Matrix: Solid
Analysis Batch: 827257

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
Trichloroethene			0.0500	0.04751		mg/Kg		95	70 - 130	6	30
Trichlorofluoromethane			0.0500	0.05661		mg/Kg		113	70 - 130	3	30
1,2,3-Trichloropropane			0.0500	0.05115		mg/Kg		102	64 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05238		mg/Kg		105	70 - 130	3	40
1,2,4-Trimethylbenzene			0.0500	0.05165		mg/Kg		103	70 - 130	17	30
Hexane			0.0500	0.04914		mg/Kg		98	70 - 130	8	30
1,3,5-Trimethylbenzene			0.0500	0.05175		mg/Kg		103	70 - 130	16	30
n-Heptane			0.0500	0.04572		mg/Kg		91	70 - 130	9	30
Vinyl acetate			0.100	0.1654	*+	mg/Kg		165	53 - 150	3	30
Vinyl chloride			0.0500	0.05217		mg/Kg		104	70 - 130	3	30
Xylenes, Total			0.100	0.1047		mg/Kg		105	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*
Dibromofluoromethane (Surr)	*107*		*65 - 130*
4-Bromofluorobenzene (Surr)	*104*		*65 - 130*

Lab Sample ID: MB 680-827454/9
Matrix: Solid
Analysis Batch: 827454

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			03/14/24 12:01	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/14/24 12:01	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/14/24 12:01	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/14/24 12:01	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/14/24 12:01	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/14/24 12:01	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/14/24 12:01	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/14/24 12:01	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/14/24 12:01	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/14/24 12:01	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/14/24 12:01	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/14/24 12:01	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/14/24 12:01	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/14/24 12:01	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/14/24 12:01	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/14/24 12:01	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/14/24 12:01	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/14/24 12:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-827454/9
Matrix: Solid
Analysis Batch: 827454

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/14/24 12:01	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/14/24 12:01	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/14/24 12:01	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/14/24 12:01	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/14/24 12:01	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/14/24 12:01	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/14/24 12:01	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/14/24 12:01	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/14/24 12:01	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/14/24 12:01	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/14/24 12:01	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/14/24 12:01	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/14/24 12:01	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/14/24 12:01	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/14/24 12:01	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/14/24 12:01	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/14/24 12:01	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/14/24 12:01	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/14/24 12:01	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/14/24 12:01	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/14/24 12:01	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/14/24 12:01	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/14/24 12:01	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/14/24 12:01	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/14/24 12:01	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/14/24 12:01	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/14/24 12:01	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/14/24 12:01	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/14/24 12:01	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/14/24 12:01	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/14/24 12:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/14/24 12:01	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/14/24 12:01	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/14/24 12:01	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/14/24 12:01	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/14/24 12:01	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/14/24 12:01	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/14/24 12:01	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/14/24 12:01	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/14/24 12:01	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/14/24 12:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	123		65 - 130		03/14/24 12:01	1
1,2-Dichloroethane-d4 (Surr)	118		65 - 130		03/14/24 12:01	1
Dibromofluoromethane (Surr)	120		65 - 130		03/14/24 12:01	1
4-Bromofluorobenzene (Surr)	115		65 - 130		03/14/24 12:01	1

Lab Sample ID: LCS 680-827454/5
Matrix: Solid
Analysis Batch: 827454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2452		mg/Kg		98	10 - 150
Benzene	0.0500	0.05389		mg/Kg		108	70 - 130
Bromobenzene	0.0500	0.05160		mg/Kg		103	70 - 130
Bromoform	0.0500	0.04366		mg/Kg		87	68 - 130
Bromomethane	0.0500	0.07933	*+	mg/Kg		159	70 - 130
2-Butanone (MEK)	0.250	0.2670		mg/Kg		107	40 - 150
Chlorobromomethane	0.0500	0.05775		mg/Kg		116	66 - 130
Carbon disulfide	0.0500	0.05898		mg/Kg		118	70 - 130
Carbon tetrachloride	0.0500	0.05473		mg/Kg		109	70 - 130
Chlorobenzene	0.0500	0.05089		mg/Kg		102	70 - 130
Chloroethane	0.0500	0.06814	*+	mg/Kg		136	70 - 130
Chloroform	0.0500	0.05145		mg/Kg		103	70 - 130
Chloromethane	0.0500	0.05567		mg/Kg		111	70 - 130
2-Chlorotoluene	0.0500	0.05151		mg/Kg		103	70 - 130
4-Chlorotoluene	0.0500	0.05098		mg/Kg		102	70 - 130
Chlorodibromomethane	0.0500	0.04922		mg/Kg		98	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04174		mg/Kg		83	42 - 145
Dibromomethane	0.0500	0.05336		mg/Kg		107	59 - 142
1,2-Dichlorobenzene	0.0500	0.05122		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0500	0.05160		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0500	0.05106		mg/Kg		102	70 - 130
Dichlorobromomethane	0.0500	0.05298		mg/Kg		106	70 - 130
Dichlorodifluoromethane	0.0500	0.06304		mg/Kg		126	43 - 131
1,1-Dichloroethane	0.0500	0.05506		mg/Kg		110	70 - 130
1,2-Dichloroethane	0.0500	0.05794		mg/Kg		116	68 - 139
cis-1,2-Dichloroethene	0.0500	0.05131		mg/Kg		103	70 - 130
1,1-Dichloroethene	0.0500	0.05565		mg/Kg		111	69 - 130
1,2-Dichloropropane	0.0500	0.05293		mg/Kg		106	70 - 130
1,3-Dichloropropane	0.0500	0.05166		mg/Kg		103	54 - 150
2,2-Dichloropropane	0.0500	0.05553		mg/Kg		111	70 - 130
1,1-Dichloropropene	0.0500	0.05380		mg/Kg		108	70 - 130
cis-1,3-Dichloropropene	0.0500	0.05209		mg/Kg		104	70 - 130
Ethylene Dibromide	0.0500	0.04974		mg/Kg		99	48 - 150
Ethylbenzene	0.0500	0.05227		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0500	0.04959		mg/Kg		99	70 - 130
2-Hexanone	0.250	0.2638		mg/Kg		106	30 - 150
Iodomethane	0.0500	0.06208		mg/Kg		124	65 - 138
Isopropylbenzene	0.0500	0.05308		mg/Kg		106	70 - 130
4-Isopropyltoluene	0.0500	0.05398		mg/Kg		108	70 - 130
Methylene Chloride	0.0500	0.05606		mg/Kg		112	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2617		mg/Kg		105	34 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827454/5
Matrix: Solid
Analysis Batch: 827454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl tert-butyl ether			0.0500	0.05325		mg/Kg		107	70 - 130		
Naphthalene			0.0500	0.04292		mg/Kg		86	46 - 150		
n-Butylbenzene			0.0500	0.05595		mg/Kg		112	70 - 130		
N-Propylbenzene			0.0500	0.05235		mg/Kg		105	70 - 130		
sec-Butylbenzene			0.0500	0.05417		mg/Kg		108	69 - 142		
Styrene			0.0500	0.05225		mg/Kg		104	70 - 130		
tert-Butylbenzene			0.0500	0.05317		mg/Kg		106	67 - 145		
1,1,1,2-Tetrachloroethane			0.0500	0.04782		mg/Kg		96	70 - 130		
1,1,2,2-Tetrachloroethane			0.0500	0.05086		mg/Kg		102	64 - 130		
Tetrachloroethene			0.0500	0.04829		mg/Kg		97	70 - 130		
Toluene			0.0500	0.05211		mg/Kg		104	70 - 130		
trans-1,4-Dichloro-2-butene			0.0500	0.04972		mg/Kg		99	54 - 150		
trans-1,2-Dichloroethene			0.0500	0.04689		mg/Kg		94	67 - 130		
trans-1,3-Dichloropropene			0.0500	0.05211		mg/Kg		104	54 - 150		
1,2,3-Trichlorobenzene			0.0500	0.04709		mg/Kg		94	70 - 130		
1,2,4-Trichlorobenzene			0.0500	0.04798		mg/Kg		96	70 - 130		
1,1,1-Trichloroethane			0.0500	0.05563		mg/Kg		111	70 - 130		
o-Xylene			0.0500	0.05232		mg/Kg		105	70 - 130		
1,1,2-Trichloroethane			0.0500	0.05064		mg/Kg		101	56 - 146		
m-Xylene & p-Xylene			0.0500	0.05215		mg/Kg		104	70 - 130		
Trichloroethene			0.0500	0.04745		mg/Kg		95	70 - 130		
Trichlorofluoromethane			0.0500	0.05894		mg/Kg		118	70 - 130		
1,2,3-Trichloropropane			0.0500	0.04865		mg/Kg		97	64 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05286		mg/Kg		106	70 - 130		
1,2,4-Trimethylbenzene			0.0500	0.05421		mg/Kg		108	70 - 130		
Hexane			0.0500	0.05318		mg/Kg		106	70 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05496		mg/Kg		110	70 - 130		
n-Heptane			0.0500	0.05419		mg/Kg		108	70 - 130		
Vinyl acetate			0.100	0.1454		mg/Kg		145	53 - 150		
Vinyl chloride			0.0500	0.05596		mg/Kg		112	70 - 130		
Xylenes, Total			0.100	0.1045		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*
Dibromofluoromethane (Surr)	*99*		*65 - 130*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*

Lab Sample ID: LCSD 680-827454/6
Matrix: Solid
Analysis Batch: 827454

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
Acetone			0.250	0.2419		mg/Kg		97	10 - 150	1	50
Benzene			0.0500	0.05195		mg/Kg		104	70 - 130	4	30
Bromobenzene			0.0500	0.04953		mg/Kg		99	70 - 130	4	30
Bromoform			0.0500	0.04406		mg/Kg		88	68 - 130	1	30
Bromomethane			0.0500	0.07594	*+	mg/Kg		152	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827454/6
Matrix: Solid
Analysis Batch: 827454

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
2-Butanone (MEK)	0.250	0.2702		mg/Kg		108	40 - 150	1	30
Chlorobromomethane	0.0500	0.05342		mg/Kg		107	66 - 130	8	30
Carbon disulfide	0.0500	0.05655		mg/Kg		113	70 - 130	4	30
Carbon tetrachloride	0.0500	0.05288		mg/Kg		106	70 - 130	3	30
Chlorobenzene	0.0500	0.04962		mg/Kg		99	70 - 130	3	30
Chloroethane	0.0500	0.06572	*+	mg/Kg		131	70 - 130	4	30
Chloroform	0.0500	0.04913		mg/Kg		98	70 - 130	5	30
Chloromethane	0.0500	0.05100		mg/Kg		102	70 - 130	9	30
2-Chlorotoluene	0.0500	0.05085		mg/Kg		102	70 - 130	1	30
4-Chlorotoluene	0.0500	0.05049		mg/Kg		101	70 - 130	1	30
Chlorodibromomethane	0.0500	0.04778		mg/Kg		96	64 - 133	3	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04504		mg/Kg		90	42 - 145	8	30
Dibromomethane	0.0500	0.05036		mg/Kg		101	59 - 142	6	30
1,2-Dichlorobenzene	0.0500	0.05121		mg/Kg		102	70 - 130	0	30
1,3-Dichlorobenzene	0.0500	0.05135		mg/Kg		103	70 - 130	0	30
1,4-Dichlorobenzene	0.0500	0.05180		mg/Kg		104	70 - 130	1	30
Dichlorobromomethane	0.0500	0.05079		mg/Kg		102	70 - 130	4	30
Dichlorodifluoromethane	0.0500	0.06275		mg/Kg		126	43 - 131	0	30
1,1-Dichloroethane	0.0500	0.05260		mg/Kg		105	70 - 130	5	30
1,2-Dichloroethane	0.0500	0.05532		mg/Kg		111	68 - 139	5	30
cis-1,2-Dichloroethene	0.0500	0.04813		mg/Kg		96	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.05305		mg/Kg		106	69 - 130	5	50
1,2-Dichloropropane	0.0500	0.04961		mg/Kg		99	70 - 130	6	30
1,3-Dichloropropane	0.0500	0.04982		mg/Kg		100	54 - 150	4	30
2,2-Dichloropropane	0.0500	0.05382		mg/Kg		108	70 - 130	3	30
1,1-Dichloropropene	0.0500	0.05054		mg/Kg		101	70 - 130	6	30
cis-1,3-Dichloropropene	0.0500	0.04965		mg/Kg		99	70 - 130	5	30
Ethylene Dibromide	0.0500	0.04822		mg/Kg		96	48 - 150	3	30
Ethylbenzene	0.0500	0.05130		mg/Kg		103	70 - 130	2	30
Hexachlorobutadiene	0.0500	0.04850		mg/Kg		97	70 - 130	2	30
2-Hexanone	0.250	0.2568		mg/Kg		103	30 - 150	3	30
Iodomethane	0.0500	0.06045		mg/Kg		121	65 - 138	3	30
Isopropylbenzene	0.0500	0.05105		mg/Kg		102	70 - 130	4	30
4-Isopropyltoluene	0.0500	0.05356		mg/Kg		107	70 - 130	1	30
Methylene Chloride	0.0500	0.05360		mg/Kg		107	54 - 149	4	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2599		mg/Kg		104	34 - 150	1	30
Methyl tert-butyl ether	0.0500	0.05091		mg/Kg		102	70 - 130	5	30
Naphthalene	0.0500	0.04377		mg/Kg		88	46 - 150	2	30
n-Butylbenzene	0.0500	0.05512		mg/Kg		110	70 - 130	1	30
N-Propylbenzene	0.0500	0.05238		mg/Kg		105	70 - 130	0	30
sec-Butylbenzene	0.0500	0.05240		mg/Kg		105	69 - 142	3	30
Styrene	0.0500	0.05158		mg/Kg		103	70 - 130	1	30
tert-Butylbenzene	0.0500	0.05178		mg/Kg		104	67 - 145	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.04642		mg/Kg		93	70 - 130	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.04951		mg/Kg		99	64 - 130	3	30
Tetrachloroethene	0.0500	0.04816		mg/Kg		96	70 - 130	0	30
Toluene	0.0500	0.04983		mg/Kg		100	70 - 130	4	30
trans-1,4-Dichloro-2-butene	0.0500	0.04843		mg/Kg		97	54 - 150	3	30
trans-1,2-Dichloroethene	0.0500	0.04497		mg/Kg		90	67 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827454/6
Matrix: Solid
Analysis Batch: 827454

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
trans-1,3-Dichloropropene			0.0500	0.04958		mg/Kg		99	54 - 150	5	30
1,2,3-Trichlorobenzene			0.0500	0.04664		mg/Kg		93	70 - 130	1	30
1,2,4-Trichlorobenzene			0.0500	0.04650		mg/Kg		93	70 - 130	3	30
1,1,1-Trichloroethane			0.0500	0.05368		mg/Kg		107	70 - 130	4	30
o-Xylene			0.0500	0.05112		mg/Kg		102	70 - 130	2	30
1,1,2-Trichloroethane			0.0500	0.04944		mg/Kg		99	56 - 146	2	30
m-Xylene & p-Xylene			0.0500	0.05099		mg/Kg		102	70 - 130	2	30
Trichloroethene			0.0500	0.04542		mg/Kg		91	70 - 130	4	30
Trichlorofluoromethane			0.0500	0.05804		mg/Kg		116	70 - 130	2	30
1,2,3-Trichloropropane			0.0500	0.05036		mg/Kg		101	64 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05170		mg/Kg		103	70 - 130	2	40
1,2,4-Trimethylbenzene			0.0500	0.05281		mg/Kg		106	70 - 130	3	30
Hexane			0.0500	0.05138		mg/Kg		103	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0500	0.05333		mg/Kg		107	70 - 130	3	30
n-Heptane			0.0500	0.05025		mg/Kg		101	70 - 130	8	30
Vinyl acetate			0.100	0.1399		mg/Kg		140	53 - 150	4	30
Vinyl chloride			0.0500	0.05675		mg/Kg		113	70 - 130	1	30
Xylenes, Total			0.100	0.1021		mg/Kg		102	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*
Dibromofluoromethane (Surr)	*95*		*65 - 130*
4-Bromofluorobenzene (Surr)	*103*		*65 - 130*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-827235/21-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0400		0.322	0.0400	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Acenaphthylene	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Acetophenone	<0.0273		0.322	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Anthracene	<0.0244		0.322	0.0244	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Atrazine	<0.0225		0.322	0.0225	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzaldehyde	<0.0566		0.322	0.0566	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[a]anthracene	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[a]pyrene	<0.0508		0.322	0.0508	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[b]fluoranthene	<0.0371		0.322	0.0371	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[g,h,i]perylene	<0.0215		0.322	0.0215	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[k]fluoranthene	<0.0635		0.322	0.0635	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Bis(2-chloroethoxy)methane	<0.0381		0.322	0.0381	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Bis(2-chloroethyl)ether	<0.0439		0.322	0.0439	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
bis (2-chloroisopropyl) ether	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Bis(2-ethylhexyl) phthalate	<0.0283		0.322	0.0283	mg/Kg		03/13/24 10:00	03/13/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-827235/21-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Butyl benzyl phthalate	<0.0254		0.322	0.0254	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Caprolactam	<0.0645		0.322	0.0645	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Carbazole	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Chloroaniline	<0.0508		0.645	0.0508	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Chloro-3-methylphenol	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Chloronaphthalene	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Chlorophenol	<0.0391		0.322	0.0391	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Chlorophenyl phenyl ether	<0.0430		0.322	0.0430	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Chrysene	<0.0205		0.322	0.0205	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Dibenz(a,h)anthracene	<0.0381		0.322	0.0381	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Dibenzofuran	<0.0322		0.322	0.0322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
3,3'-Dichlorobenzidine	<0.0273		0.645	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Diethyl phthalate	<0.0361		0.322	0.0361	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dimethylphenol	<0.0430		0.322	0.0430	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Dimethyl phthalate	<0.0332		0.322	0.0332	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Di-n-butyl phthalate	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dinitrophenol	<0.811		1.66	0.811	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dinitrotoluene	<0.0479		0.322	0.0479	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,6-Dinitrotoluene	<0.0410		0.322	0.0410	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Di-n-octyl phthalate	<0.0283		0.322	0.0283	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Fluoranthene	<0.0313		0.322	0.0313	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Fluorene	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachlorobenzene	<0.0381		0.322	0.0381	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachlorobutadiene	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachlorocyclopentadiene	<0.0400		0.322	0.0400	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachloroethane	<0.0273		0.322	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Indeno[1,2,3-cd]pyrene	<0.0273		0.322	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Isophorone	<0.0322		0.322	0.0322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Methylnaphthalene	<0.0371		0.322	0.0371	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Methylphenol	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
3 & 4 Methylphenol	<0.0420		0.322	0.0420	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Naphthalene	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Nitroaniline	<0.0439		1.66	0.0439	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
3-Nitroaniline	<0.0449		1.66	0.0449	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Nitroaniline	<0.0479		1.66	0.0479	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Nitrobenzene	<0.0254		0.322	0.0254	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Nitrophenol	<0.0400		0.322	0.0400	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Nitrophenol	<0.322		1.66	0.322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
N-Nitrosodi-n-propylamine	<0.0313		0.322	0.0313	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
N-Nitrosodiphenylamine	<0.0322		0.322	0.0322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Pentachlorophenol	<0.322		1.66	0.322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Phenanthrene	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Phenol	<0.0332		0.322	0.0332	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Pyrene	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Pyridine	<0.322		0.645	0.322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4,5-Trichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-827235/21-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0283		0.322	0.0283	mg/Kg		03/13/24 10:00	03/13/24 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
Phenol-d5 (Surr)	*67*		*21 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
Terphenyl-d14 (Surr)	*73*		*31 - 133*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*21 - 132*	*03/13/24 10:00*	*03/13/24 21:32*	*1*

Lab Sample ID: LCS 680-827235/22-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.56	4.981		mg/Kg		76	33 - 130
Acenaphthylene	6.56	4.762		mg/Kg		73	34 - 130
Acetophenone	6.56	4.751		mg/Kg		72	28 - 130
Anthracene	6.56	5.558		mg/Kg		85	39 - 130
Atrazine	6.56	5.338		mg/Kg		81	27 - 130
Benzaldehyde	6.56	3.594		mg/Kg		55	10 - 130
Benzo[a]anthracene	6.56	5.513		mg/Kg		84	40 - 130
Benzo[a]pyrene	6.56	5.607		mg/Kg		85	37 - 131
Benzo[b]fluoranthene	6.56	5.803		mg/Kg		88	35 - 130
Benzo[g,h,i]perylene	6.56	5.682		mg/Kg		87	39 - 130
Benzo[k]fluoranthene	6.56	5.862		mg/Kg		89	35 - 130
1,1'-Biphenyl	6.56	4.829		mg/Kg		74	32 - 130
Bis(2-chloroethoxy)methane	6.56	4.535		mg/Kg		69	29 - 130
Bis(2-chloroethyl)ether	6.56	4.914		mg/Kg		75	18 - 130
bis (2-chloroisopropyl) ether	6.56	5.028		mg/Kg		77	12 - 130
Bis(2-ethylhexyl) phthalate	6.56	5.129		mg/Kg		78	39 - 130
4-Bromophenyl phenyl ether	6.56	4.860		mg/Kg		74	32 - 130
Butyl benzyl phthalate	6.56	5.255		mg/Kg		80	38 - 130
Caprolactam	6.56	4.684		mg/Kg		71	27 - 148
Carbazole	6.56	5.472		mg/Kg		83	43 - 130
4-Chloroaniline	6.56	4.387		mg/Kg		67	10 - 130
4-Chloro-3-methylphenol	6.56	5.272		mg/Kg		80	31 - 130
2-Chloronaphthalene	6.56	4.790		mg/Kg		73	30 - 130
2-Chlorophenol	6.56	4.911		mg/Kg		75	28 - 130
4-Chlorophenyl phenyl ether	6.56	4.614		mg/Kg		70	32 - 130
Chrysene	6.56	5.677		mg/Kg		87	40 - 130
Dibenz(a,h)anthracene	6.56	5.784		mg/Kg		88	37 - 130
Dibenzofuran	6.56	4.674		mg/Kg		71	34 - 130
3,3'-Dichlorobenzidine	6.56	4.154		mg/Kg		63	10 - 130
2,4-Dichlorophenol	6.56	4.770		mg/Kg		73	30 - 130
Diethyl phthalate	6.56	5.488		mg/Kg		84	36 - 130
2,4-Dimethylphenol	6.56	4.490		mg/Kg		68	34 - 130
Dimethyl phthalate	6.56	5.147		mg/Kg		78	36 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-827235/22-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-butyl phthalate	6.56	5.517		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	13.1	10.39		mg/Kg		79	22 - 130
2,4-Dinitrophenol	13.1	7.651		mg/Kg		58	10 - 130
2,4-Dinitrotoluene	6.56	5.368		mg/Kg		82	34 - 130
2,6-Dinitrotoluene	6.56	5.037		mg/Kg		77	33 - 130
Di-n-octyl phthalate	6.56	4.983		mg/Kg		76	38 - 131
Fluoranthene	6.56	5.222		mg/Kg		80	38 - 130
Fluorene	6.56	4.899		mg/Kg		75	34 - 130
Hexachlorobenzene	6.56	5.194		mg/Kg		79	28 - 130
Hexachlorobutadiene	6.56	4.272		mg/Kg		65	22 - 130
Hexachlorocyclopentadiene	6.56	2.411		mg/Kg		37	11 - 130
Hexachloroethane	6.56	4.628		mg/Kg		71	21 - 130
Indeno[1,2,3-cd]pyrene	6.56	5.180		mg/Kg		79	40 - 130
Isophorone	6.56	4.831		mg/Kg		74	26 - 130
2-Methylnaphthalene	6.56	4.500		mg/Kg		69	28 - 130
2-Methylphenol	6.56	4.866		mg/Kg		74	30 - 130
3 & 4 Methylphenol	6.56	5.022		mg/Kg		77	31 - 130
Naphthalene	6.56	4.628		mg/Kg		71	25 - 130
2-Nitroaniline	6.56	6.012		mg/Kg		92	26 - 130
3-Nitroaniline	6.56	5.205		mg/Kg		79	10 - 130
4-Nitroaniline	6.56	5.679		mg/Kg		87	25 - 130
Nitrobenzene	6.56	4.926		mg/Kg		75	25 - 130
2-Nitrophenol	6.56	4.138		mg/Kg		63	24 - 130
4-Nitrophenol	13.1	13.63		mg/Kg		104	25 - 130
N-Nitrosodi-n-propylamine	6.56	4.742		mg/Kg		72	24 - 130
N-Nitrosodiphenylamine	6.56	5.090		mg/Kg		78	37 - 130
Pentachlorophenol	13.1	11.66		mg/Kg		89	16 - 135
Phenanthrene	6.56	5.546		mg/Kg		85	38 - 130
Phenol	6.56	5.078		mg/Kg		77	27 - 130
Pyrene	6.56	5.276		mg/Kg		80	40 - 130
Pyridine	13.1	4.200		mg/Kg		32	10 - 130
2,4,5-Trichlorophenol	6.56	4.942		mg/Kg		75	33 - 130
2,4,6-Trichlorophenol	6.56	4.732		mg/Kg		72	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*
2-Fluorophenol (Surr)	*69*		*18 - 130*
Nitrobenzene-d5 (Surr)	*70*		*19 - 130*
Phenol-d5 (Surr)	*73*		*21 - 130*
Terphenyl-d14 (Surr)	*74*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*76*		*21 - 132*

GC/MS VOA

Analysis Batch: 826833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-8	Trip Blank - 20240308a	Total/NA	Water	8260D	
MB 680-826833/10	Method Blank	Total/NA	Water	8260D	
LCS 680-826833/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-826833/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Prep Batch: 827051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-1 - DL	WAP-SS-01 (4)	Total/NA	Solid	5035A	
680-247827-1	WAP-SS-01 (4)	Total/NA	Solid	5035A	
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	5035A	
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	5035A	
680-247827-3	WAP-SS-02 (4)	Total/NA	Solid	5035A	
680-247827-4	WAP-SS-02 (8)	Total/NA	Solid	5035A	
680-247827-5	WAP-BS-01	Total/NA	Solid	5035A	
680-247827-6	WAP-BS-02	Total/NA	Solid	5035A	
680-247827-7 - DL	WAP-DUP-20240308	Total/NA	Solid	5035A	
680-247827-7	WAP-DUP-20240308	Total/NA	Solid	5035A	

Analysis Batch: 827257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-1	WAP-SS-01 (4)	Total/NA	Solid	8260D	827051
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	8260D	827051
680-247827-3	WAP-SS-02 (4)	Total/NA	Solid	8260D	827051
680-247827-4	WAP-SS-02 (8)	Total/NA	Solid	8260D	827051
680-247827-5	WAP-BS-01	Total/NA	Solid	8260D	827051
680-247827-6	WAP-BS-02	Total/NA	Solid	8260D	827051
680-247827-7	WAP-DUP-20240308	Total/NA	Solid	8260D	827051
MB 680-827257/7	Method Blank	Total/NA	Solid	8260D	
LCS 680-827257/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827257/22	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 827454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-1 - DL	WAP-SS-01 (4)	Total/NA	Solid	8260D	827051
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	8260D	827051
680-247827-7 - DL	WAP-DUP-20240308	Total/NA	Solid	8260D	827051
MB 680-827454/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-827454/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827454/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 827235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-1	WAP-SS-01 (4)	Total/NA	Solid	3546	
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	3546	
680-247827-3	WAP-SS-02 (4)	Total/NA	Solid	3546	
680-247827-4	WAP-SS-02 (8)	Total/NA	Solid	3546	
680-247827-5	WAP-BS-01	Total/NA	Solid	3546	
680-247827-6	WAP-BS-02	Total/NA	Solid	3546	
680-247827-7	WAP-DUP-20240308	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 827235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-827235/21-A	Method Blank	Total/NA	Solid	3546	
LCS 680-827235/22-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 827410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-1	WAP-SS-01 (4)	Total/NA	Solid	8270E	827235
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	8270E	827235
680-247827-3	WAP-SS-02 (4)	Total/NA	Solid	8270E	827235
680-247827-4	WAP-SS-02 (8)	Total/NA	Solid	8270E	827235
680-247827-5	WAP-BS-01	Total/NA	Solid	8270E	827235
680-247827-6	WAP-BS-02	Total/NA	Solid	8270E	827235
680-247827-7	WAP-DUP-20240308	Total/NA	Solid	8270E	827235
MB 680-827235/21-A	Method Blank	Total/NA	Solid	8270E	827235
LCS 680-827235/22-A	Lab Control Sample	Total/NA	Solid	8270E	827235

General Chemistry

Analysis Batch: 827139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247827-1	WAP-SS-01 (4)	Total/NA	Solid	Moisture	
680-247827-2	WAP-SS-01 (8)	Total/NA	Solid	Moisture	
680-247827-3	WAP-SS-02 (4)	Total/NA	Solid	Moisture	
680-247827-4	WAP-SS-02 (8)	Total/NA	Solid	Moisture	
680-247827-5	WAP-BS-01	Total/NA	Solid	Moisture	
680-247827-6	WAP-BS-02	Total/NA	Solid	Moisture	
680-247827-7	WAP-DUP-20240308	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-01 (4)

Lab Sample ID: 680-247827-1

Date Collected: 03/08/24 08:20
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-01 (4)

Lab Sample ID: 680-247827-1

Date Collected: 03/08/24 08:20
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		7.138 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D	DL	40	5 g	5 g	827454	03/14/24 17:17	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			6.168 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 17:55	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.56 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 01:27	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-01 (8)

Lab Sample ID: 680-247827-2

Date Collected: 03/08/24 08:25
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-01 (8)

Lab Sample ID: 680-247827-2

Date Collected: 03/08/24 08:25
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.555 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827454	03/14/24 15:28	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			7.053 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 18:17	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.23 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 01:53	OK	EET SAV
	Instrument ID: CMSK									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-SS-02 (4)

Lab Sample ID: 680-247827-3

Date Collected: 03/08/24 08:30
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-02 (4)

Lab Sample ID: 680-247827-3

Date Collected: 03/08/24 08:30
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.377 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 18:38	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.44 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 02:20	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-02 (8)

Lab Sample ID: 680-247827-4

Date Collected: 03/08/24 08:35
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-02 (8)

Lab Sample ID: 680-247827-4

Date Collected: 03/08/24 08:35
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.345 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 19:00	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.36 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 02:46	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-BS-01

Lab Sample ID: 680-247827-5

Date Collected: 03/08/24 09:20
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-BS-01

Lab Sample ID: 680-247827-5
Date Collected: 03/08/24 09:20
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.201 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 19:21	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.43 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 03:12	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-BS-02

Lab Sample ID: 680-247827-6
Date Collected: 03/08/24 09:25
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-BS-02

Lab Sample ID: 680-247827-6
Date Collected: 03/08/24 09:25
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.196 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 19:43	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3546			15.45 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 03:39	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-DUP-20240308

Lab Sample ID: 680-247827-7
Date Collected: 03/08/24 00:00
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-DUP-20240308

Lab Sample ID: 680-247827-7
Date Collected: 03/08/24 00:00
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A	DL		6.28 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D	DL	100	5 g	5 g	827454	03/14/24 16:11	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			7.057 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827257	03/13/24 20:05	Y1S	EET SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Client Sample ID: WAP-DUP-20240308

Lab Sample ID: 680-247827-7

Date Collected: 03/08/24 00:00
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.33 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 04:05	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: Trip Blank - 20240308a

Lab Sample ID: 680-247827-8

Date Collected: 03/08/24 00:00
Matrix: Water
Date Received: 03/09/24 09:33

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	826833	03/11/24 18:42	P1C	EET SAV
	Instrument ID: CMSAB									

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: 680-247827-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247827-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

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Client Information	Sampler: Les Abbott	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Ethan Dinwiddie	Phone: 919-771-5602	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water			1311/8260D - TCLP VOCs	1311/8270E - TCLP SVOCs						Total Number of containers	Special Instructions/Note:
Preservation Code:							EF	N	A			N	N							
WAP-SS-01 (4)	3/8/24	8:20	G	S			X	X												
WAP-SS-01 (8)		8:25					X	X												
WAP-SS-02 (4)		8:30					X	X												
WAP-SS-02 (8)		8:35					X	X												
WAP-BS-01		9:20					X	X												
WAP-BS-02		9:25					X	X												
WAP-DUP-20240308							X	X												
Trip Blank-20240308a							X													

680-247827 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 ☐ Archive For _____ Months

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
1	Leslie J Abbott Jr	3/8/24 17:00			3-9-24 933	M
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 0.6/0.6

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247827-1

Login Number: 247827

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/18/2024 12:39:22 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-247829-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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3/18/2024 12:39:22 PM

Authorized for release by
John Andros, Project Manager I
John.Andros@et.eurofinsus.com
Designee for
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

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.
B	Compound was found in the blank and sample.
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, high biased.

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.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247829-1	WAP-SS-03 (4)	Solid	03/08/24 08:40	03/09/24 09:33
680-247829-2	WAP-SS-03 (8)	Solid	03/08/24 08:45	03/09/24 09:33
680-247829-3	WAP-SS-04 (4)	Solid	03/08/24 08:50	03/09/24 09:33
680-247829-4	WAP-SS-04 (8)	Solid	03/08/24 08:55	03/09/24 09:33
680-247829-5	WAP-SS-05 (4)	Solid	03/08/24 09:00	03/09/24 09:33
680-247829-6	WAP-SS-05 (8)	Solid	03/08/24 09:05	03/09/24 09:33
680-247829-7	WAP-SS-06 (4)	Solid	03/08/24 09:10	03/09/24 09:33
680-247829-8	WAP-SS-06 (8)	Solid	03/08/24 09:15	03/09/24 09:33
680-247829-9	Trip Blank-20240308b	Water	03/08/24 00:00	03/09/24 09:33

Job ID: 680-247829-1 Eurofins Savannah

Job Narrative
680-247829-1

Receipt
The samples were received on 3/9/2024 9:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 680-827726 contained Acetone above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-03 (4)
Date Collected: 03/08/24 08:40
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-1
Matrix: Solid
Percent Solids: 78.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0338	J B	0.0538	0.0118	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Benzene	<0.00258		0.00538	0.00258	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Bromobenzene	<0.00183		0.00538	0.00183	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Chlorobromomethane	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Dichlorobromomethane	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Bromoform	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Bromomethane	<0.00258	*+	0.00538	0.00258	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
2-Butanone (MEK)	<0.00991		0.0269	0.00991	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
n-Butylbenzene	<0.00205		0.00538	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
sec-Butylbenzene	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
tert-Butylbenzene	<0.00269		0.00538	0.00269	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Carbon disulfide	<0.00226		0.00538	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Carbon tetrachloride	<0.00226		0.00538	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Chlorobenzene	<0.00151		0.00538	0.00151	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Chloroethane	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Chloroform	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Chloromethane	<0.00258		0.00538	0.00258	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
2-Chlorotoluene	<0.00248		0.00538	0.00248	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
4-Chlorotoluene	<0.00226		0.00538	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Chlorodibromomethane	<0.00226		0.00538	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2-Dibromo-3-Chloropropane	<0.00172		0.0108	0.00172	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Ethylene Dibromide	<0.00183		0.00538	0.00183	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Dibromomethane	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2-Dichlorobenzene	<0.00183		0.00538	0.00183	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,3-Dichlorobenzene	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,4-Dichlorobenzene	<0.00194		0.00538	0.00194	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
trans-1,4-Dichloro-2-butene	<0.00258		0.0108	0.00258	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Dichlorodifluoromethane	<0.00345		0.00538	0.00345	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1-Dichloroethane	<0.00312		0.00538	0.00312	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2-Dichloroethane	<0.00248		0.00538	0.00248	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
cis-1,2-Dichloroethene	<0.00312		0.00538	0.00312	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
trans-1,2-Dichloroethene	<0.00248		0.00538	0.00248	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1-Dichloroethene	<0.00388		0.00538	0.00388	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2-Dichloropropane	<0.00280		0.00538	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,3-Dichloropropane	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
2,2-Dichloropropane	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1-Dichloropropene	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
cis-1,3-Dichloropropene	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
trans-1,3-Dichloropropene	<0.00280		0.00538	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Ethylbenzene	<0.00226		0.00538	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Hexachlorobutadiene	<0.00441		0.00538	0.00441	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
2-Hexanone	<0.0205		0.0269	0.0205	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Iodomethane	<0.00183		0.00538	0.00183	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Isopropylbenzene	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
4-Isopropyltoluene	<0.00280		0.00538	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Methylene Chloride	<0.00861		0.0108	0.00861	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0194		0.0269	0.0194	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Methyl tert-butyl ether	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Naphthalene	<0.00334		0.00538	0.00334	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1

Client Sample ID: WAP-SS-03 (4)
Date Collected: 03/08/24 08:40
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-1
Matrix: Solid
Percent Solids: 78.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Styrene	<0.00205		0.00538	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1,1,2-Tetrachloroethane	<0.00140		0.00538	0.00140	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1,2,2-Tetrachloroethane	<0.00226		0.00538	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Tetrachloroethene	<0.00280		0.00538	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Toluene	<0.00280		0.00538	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2,3-Trichlorobenzene	<0.00215		0.00538	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2,4-Trichlorobenzene	<0.00269		0.00538	0.00269	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1,1-Trichloroethane	<0.00280		0.00538	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1,2-Trichloroethane	<0.00162		0.00538	0.00162	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Trichloroethene	<0.00194		0.00538	0.00194	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Trichlorofluoromethane	<0.00334		0.00538	0.00334	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2,3-Trichloropropane	<0.00194		0.00538	0.00194	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00312		0.00538	0.00312	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,2,4-Trimethylbenzene	<0.00269		0.00538	0.00269	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
1,3,5-Trimethylbenzene	<0.00258		0.00538	0.00258	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Vinyl acetate	<0.00592		0.0108	0.00592	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Vinyl chloride	<0.00302		0.00538	0.00302	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
o-Xylene	<0.00248		0.00538	0.00248	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
m-Xylene & p-Xylene	<0.00237		0.00538	0.00237	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Xylenes, Total	<0.00388		0.0108	0.00388	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Isopropyl ether	<0.00162		0.0108	0.00162	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Hexane	<0.00183		0.00538	0.00183	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
n-Heptane	<0.00463		0.00538	0.00463	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1
Ethyl acetate	<0.0108		0.0108	0.0108	mg/Kg	☼	03/12/24 09:36	03/15/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*120*		*65 - 130*	*03/12/24 09:36*	*03/15/24 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*	*S1+*	*65 - 130*	*03/12/24 09:36*	*03/15/24 17:34*	*1*
Dibromofluoromethane (Surr)	*123*		*65 - 130*	*03/12/24 09:36*	*03/15/24 17:34*	*1*
4-Bromofluorobenzene (Surr)	*119*		*65 - 130*	*03/12/24 09:36*	*03/15/24 17:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0503		0.405	0.0503	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Acenaphthylene	<0.0442		0.405	0.0442	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Acetophenone	<0.0344		0.405	0.0344	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Anthracene	<0.0307		0.405	0.0307	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Atrazine	<0.0282		0.405	0.0282	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Benzaldehyde	<0.0712		0.405	0.0712	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Benzo[a]anthracene	<0.0331		0.405	0.0331	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Benzo[a]pyrene	<0.0638		0.405	0.0638	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Benzo[b]fluoranthene	<0.0466		0.405	0.0466	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Benzo[g,h,i]perylene	<0.0270		0.405	0.0270	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Benzo[k]fluoranthene	<0.0798		0.405	0.0798	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
1,1'-Biphenyl	<2.09		2.09	2.09	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Bis(2-chloroethoxy)methane	<0.0479		0.405	0.0479	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Bis(2-chloroethyl)ether	<0.0552		0.405	0.0552	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
bis (2-chloroisopropyl) ether	<0.0368		0.405	0.0368	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Bis(2-ethylhexyl) phthalate	<0.0356		0.405	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-03 (4)
Date Collected: 03/08/24 08:40
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-1
Matrix: Solid
Percent Solids: 78.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.0442		0.405	0.0442	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Butyl benzyl phthalate	<0.0319		0.405	0.0319	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Caprolactam	<0.0810		0.405	0.0810	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Carbazole	<0.0368		0.405	0.0368	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
4-Chloroaniline	<0.0638		0.810	0.0638	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
4-Chloro-3-methylphenol	<0.0429		0.405	0.0429	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2-Chloronaphthalene	<0.0429		0.405	0.0429	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2-Chlorophenol	<0.0491		0.405	0.0491	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
4-Chlorophenyl phenyl ether	<0.0540		0.405	0.0540	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Chrysene	<0.0258		0.405	0.0258	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Dibenz(a,h)anthracene	<0.0479		0.405	0.0479	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Dibenzofuran	<0.0405		0.405	0.0405	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
3,3'-Dichlorobenzidine	<0.0344		0.810	0.0344	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2,4-Dichlorophenol	<0.0429		0.405	0.0429	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Diethyl phthalate	<0.0454		0.405	0.0454	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2,4-Dimethylphenol	<0.0540		0.405	0.0540	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Dimethyl phthalate	<0.0417		0.405	0.0417	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Di-n-butyl phthalate	<0.0368		0.405	0.0368	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
4,6-Dinitro-2-methylphenol	<0.209		2.09	0.209	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2,4-Dinitrophenol	<1.02		2.09	1.02	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2,4-Dinitrotoluene	<0.0601		0.405	0.0601	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2,6-Dinitrotoluene	<0.0515		0.405	0.0515	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Di-n-octyl phthalate	<0.0356		0.405	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Fluoranthene	<0.0393		0.405	0.0393	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Fluorene	<0.0442		0.405	0.0442	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Hexachlorobenzene	<0.0479		0.405	0.0479	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Hexachlorobutadiene	<0.0442		0.405	0.0442	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Hexachlorocyclopentadiene	<0.0503		0.405	0.0503	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Hexachloroethane	<0.0344		0.405	0.0344	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Indeno[1,2,3-cd]pyrene	<0.0344		0.405	0.0344	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Isophorone	<0.0405		0.405	0.0405	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2-Methylnaphthalene	<0.0466		0.405	0.0466	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2-Methylphenol	<0.0331		0.405	0.0331	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
3 & 4 Methylphenol	<0.0528		0.405	0.0528	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Naphthalene	<0.0368		0.405	0.0368	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2-Nitroaniline	<0.0552		2.09	0.0552	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
3-Nitroaniline	<0.0564		2.09	0.0564	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
4-Nitroaniline	<0.0601		2.09	0.0601	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Nitrobenzene	<0.0319		0.405	0.0319	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2-Nitrophenol	<0.0503		0.405	0.0503	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
4-Nitrophenol	<0.405		2.09	0.405	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
N-Nitrosodi-n-propylamine	<0.0393		0.405	0.0393	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
N-Nitrosodiphenylamine	<0.0405		0.405	0.0405	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Pentachlorophenol	<0.405		2.09	0.405	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Phenanthrene	<0.0331		0.405	0.0331	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Phenol	<0.0417		0.405	0.0417	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Pyrene	<0.0331		0.405	0.0331	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
Pyridine	<0.405		0.810	0.405	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1
2,4,5-Trichlorophenol	<0.0429		0.405	0.0429	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-03 (4)

Lab Sample ID: 680-247829-1
Date Collected: 03/08/24 08:40
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<0.0356		0.405	0.0356	mg/Kg	☼	03/13/24 10:00	03/14/24 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*	*03/13/24 10:00*	*03/14/24 04:31*	*1*
2-Fluorophenol (Surr)	*66*		*18 - 130*	*03/13/24 10:00*	*03/14/24 04:31*	*1*
Nitrobenzene-d5 (Surr)	*65*		*19 - 130*	*03/13/24 10:00*	*03/14/24 04:31*	*1*
Phenol-d5 (Surr)	*66*		*21 - 130*	*03/13/24 10:00*	*03/14/24 04:31*	*1*
Terphenyl-d14 (Surr)	*73*		*31 - 133*	*03/13/24 10:00*	*03/14/24 04:31*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*21 - 132*	*03/13/24 10:00*	*03/14/24 04:31*	*1*

Client Sample ID: WAP-SS-03 (8)

Lab Sample ID: 680-247829-2
Date Collected: 03/08/24 08:45
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0267**	**J B**	0.0448	0.00986	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Benzene	<0.00215		0.00448	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Bromobenzene	<0.00152		0.00448	0.00152	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Chlorobromomethane	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Dichlorobromomethane	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Bromoform	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Bromomethane	<0.00215	*+	0.00448	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
2-Butanone (MEK)	<0.00824		0.0224	0.00824	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
n-Butylbenzene	<0.00170		0.00448	0.00170	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
sec-Butylbenzene	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
tert-Butylbenzene	<0.00224		0.00448	0.00224	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Carbon disulfide	<0.00188		0.00448	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Carbon tetrachloride	<0.00188		0.00448	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Chlorobenzene	<0.00125		0.00448	0.00125	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Chloroethane	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Chloroform	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Chloromethane	<0.00215		0.00448	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
2-Chlorotoluene	<0.00206		0.00448	0.00206	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
4-Chlorotoluene	<0.00188		0.00448	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Chlorodibromomethane	<0.00188		0.00448	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2-Dibromo-3-Chloropropane	<0.00143		0.00896	0.00143	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Ethylene Dibromide	<0.00152		0.00448	0.00152	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Dibromomethane	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2-Dichlorobenzene	<0.00152		0.00448	0.00152	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,3-Dichlorobenzene	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,4-Dichlorobenzene	<0.00161		0.00448	0.00161	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
trans-1,4-Dichloro-2-butene	<0.00215		0.00896	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Dichlorodifluoromethane	<0.00287		0.00448	0.00287	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1-Dichloroethane	<0.00260		0.00448	0.00260	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2-Dichloroethane	<0.00206		0.00448	0.00206	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
cis-1,2-Dichloroethene	<0.00260		0.00448	0.00260	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
trans-1,2-Dichloroethene	<0.00206		0.00448	0.00206	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1-Dichloroethene	<0.00323		0.00448	0.00323	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2-Dichloropropane	<0.00233		0.00448	0.00233	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-03 (8)
Date Collected: 03/08/24 08:45
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-2
Matrix: Solid
Percent Solids: 78.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
2,2-Dichloropropane	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1-Dichloropropene	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
cis-1,3-Dichloropropene	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
trans-1,3-Dichloropropene	<0.00233		0.00448	0.00233	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Ethylbenzene	<0.00188		0.00448	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Hexachlorobutadiene	<0.00367		0.00448	0.00367	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
2-Hexanone	<0.0170		0.0224	0.0170	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Iodomethane	<0.00152		0.00448	0.00152	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Isopropylbenzene	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
4-Isopropyltoluene	<0.00233		0.00448	0.00233	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Methylene Chloride	<0.00717		0.00896	0.00717	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
4-Methyl-2-pentanone (MIBK)	<0.0161		0.0224	0.0161	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Methyl tert-butyl ether	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Naphthalene	<0.00278		0.00448	0.00278	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
N-Propylbenzene	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Styrene	<0.00170		0.00448	0.00170	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1,1,2-Tetrachloroethane	<0.00116		0.00448	0.00116	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1,2,2-Tetrachloroethane	<0.00188		0.00448	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Tetrachloroethene	<0.00233		0.00448	0.00233	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Toluene	<0.00233		0.00448	0.00233	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2,3-Trichlorobenzene	<0.00179		0.00448	0.00179	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2,4-Trichlorobenzene	<0.00224		0.00448	0.00224	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1,1-Trichloroethane	<0.00233		0.00448	0.00233	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1,2-Trichloroethane	<0.00134		0.00448	0.00134	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Trichloroethene	**0.00259**	**J**	0.00448	0.00161	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Trichlorofluoromethane	<0.00278		0.00448	0.00278	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2,3-Trichloropropane	<0.00161		0.00448	0.00161	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00949**		0.00448	0.00260	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,2,4-Trimethylbenzene	<0.00224		0.00448	0.00224	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
1,3,5-Trimethylbenzene	<0.00215		0.00448	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Vinyl acetate	<0.00493		0.00896	0.00493	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Vinyl chloride	<0.00251		0.00448	0.00251	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
o-Xylene	<0.00206		0.00448	0.00206	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
m-Xylene & p-Xylene	<0.00197		0.00448	0.00197	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Xylenes, Total	<0.00323		0.00896	0.00323	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Isopropyl ether	<0.00134		0.00896	0.00134	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Hexane	<0.00152		0.00448	0.00152	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
n-Heptane	<0.00385		0.00448	0.00385	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1
Ethyl acetate	<0.00896		0.00896	0.00896	mg/Kg	☼	03/12/24 09:36	03/15/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*120*		*65 - 130*	*03/12/24 09:36*	*03/15/24 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*	*S1+*	*65 - 130*	*03/12/24 09:36*	*03/15/24 17:56*	*1*
Dibromofluoromethane (Surr)	*124*		*65 - 130*	*03/12/24 09:36*	*03/15/24 17:56*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*03/12/24 09:36*	*03/15/24 17:56*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-03 (8)
Date Collected: 03/08/24 08:45
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-2
Matrix: Solid
Percent Solids: 78.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0496		0.400	0.0496	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Acenaphthylene	<0.0436		0.400	0.0436	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Acetophenone	<0.0339		0.400	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Anthracene	<0.0303		0.400	0.0303	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Atrazine	<0.0278		0.400	0.0278	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Benzaldehyde	<0.0702		0.400	0.0702	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Benzo[a]anthracene	<0.0327		0.400	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Benzo[a]pyrene	<0.0630		0.400	0.0630	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Benzo[b]fluoranthene	<0.0460		0.400	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Benzo[g,h,i]perylene	<0.0266		0.400	0.0266	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Benzo[k]fluoranthene	<0.0787		0.400	0.0787	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
1,1'-Biphenyl	<2.06		2.06	2.06	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Bis(2-chloroethoxy)methane	<0.0472		0.400	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Bis(2-chloroethyl)ether	<0.0545		0.400	0.0545	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
bis (2-chloroisopropyl) ether	<0.0363		0.400	0.0363	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Bis(2-ethylhexyl) phthalate	<0.0351		0.400	0.0351	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4-Bromophenyl phenyl ether	<0.0436		0.400	0.0436	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Butyl benzyl phthalate	<0.0315		0.400	0.0315	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Caprolactam	<0.0799		0.400	0.0799	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Carbazole	<0.0363		0.400	0.0363	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4-Chloroaniline	<0.0630		0.799	0.0630	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4-Chloro-3-methylphenol	<0.0424		0.400	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2-Chloronaphthalene	<0.0424		0.400	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2-Chlorophenol	<0.0484		0.400	0.0484	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4-Chlorophenyl phenyl ether	<0.0533		0.400	0.0533	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Chrysene	<0.0254		0.400	0.0254	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Dibenz(a,h)anthracene	<0.0472		0.400	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Dibenzofuran	<0.0400		0.400	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
3,3'-Dichlorobenzidine	<0.0339		0.799	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,4-Dichlorophenol	<0.0424		0.400	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Diethyl phthalate	<0.0448		0.400	0.0448	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,4-Dimethylphenol	<0.0533		0.400	0.0533	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Dimethyl phthalate	<0.0412		0.400	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Di-n-butyl phthalate	<0.0363		0.400	0.0363	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4,6-Dinitro-2-methylphenol	<0.206		2.06	0.206	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,4-Dinitrophenol	<1.00		2.06	1.00	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,4-Dinitrotoluene	<0.0593		0.400	0.0593	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,6-Dinitrotoluene	<0.0509		0.400	0.0509	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Di-n-octyl phthalate	<0.0351		0.400	0.0351	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Fluoranthene	<0.0387		0.400	0.0387	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Fluorene	<0.0436		0.400	0.0436	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Hexachlorobenzene	<0.0472		0.400	0.0472	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Hexachlorobutadiene	<0.0436		0.400	0.0436	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Hexachlorocyclopentadiene	<0.0496		0.400	0.0496	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Hexachloroethane	<0.0339		0.400	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Indeno[1,2,3-cd]pyrene	<0.0339		0.400	0.0339	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Isophorone	<0.0400		0.400	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2-Methylnaphthalene	<0.0460		0.400	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2-Methylphenol	<0.0327		0.400	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1

Client Sample ID: WAP-SS-03 (8)

Lab Sample ID: 680-247829-2

Date Collected: 03/08/24 08:45
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.0521		0.400	0.0521	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Naphthalene	<0.0363		0.400	0.0363	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2-Nitroaniline	<0.0545		2.06	0.0545	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
3-Nitroaniline	<0.0557		2.06	0.0557	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4-Nitroaniline	<0.0593		2.06	0.0593	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Nitrobenzene	<0.0315		0.400	0.0315	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2-Nitrophenol	<0.0496		0.400	0.0496	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
4-Nitrophenol	<0.400		2.06	0.400	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
N-Nitrosodi-n-propylamine	<0.0387		0.400	0.0387	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
N-Nitrosodiphenylamine	<0.0400		0.400	0.0400	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Pentachlorophenol	<0.400		2.06	0.400	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Phenanthrene	<0.0327		0.400	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Phenol	<0.0412		0.400	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Pyrene	<0.0327		0.400	0.0327	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
Pyridine	<0.400		0.799	0.400	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,4,5-Trichlorophenol	<0.0424		0.400	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1
2,4,6-Trichlorophenol	<0.0351		0.400	0.0351	mg/Kg	☼	03/13/24 10:00	03/14/24 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/13/24 10:00*	*03/14/24 04:57*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 130*	*03/13/24 10:00*	*03/14/24 04:57*	*1*
Nitrobenzene-d5 (Surr)	*68*		*19 - 130*	*03/13/24 10:00*	*03/14/24 04:57*	*1*
Phenol-d5 (Surr)	*68*		*21 - 130*	*03/13/24 10:00*	*03/14/24 04:57*	*1*
Terphenyl-d14 (Surr)	*76*		*31 - 133*	*03/13/24 10:00*	*03/14/24 04:57*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*21 - 132*	*03/13/24 10:00*	*03/14/24 04:57*	*1*

Client Sample ID: WAP-SS-04 (4)

Lab Sample ID: 680-247829-3

Date Collected: 03/08/24 08:50
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0458**	**J B**	0.0480	0.0105	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Benzene	<0.00230		0.00480	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Bromobenzene	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Chlorobromomethane	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Dichlorobromomethane	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Bromoform	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Bromomethane	<0.00230	*+	0.00480	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
2-Butanone (MEK)	<0.00882		0.0240	0.00882	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
n-Butylbenzene	<0.00182		0.00480	0.00182	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
sec-Butylbenzene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
tert-Butylbenzene	<0.00240		0.00480	0.00240	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Carbon disulfide	**0.00202**	**J**	0.00480	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Carbon tetrachloride	<0.00201		0.00480	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Chlorobenzene	<0.00134		0.00480	0.00134	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Chloroethane	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Chloroform	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Chloromethane	<0.00230		0.00480	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
2-Chlorotoluene	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-04 (4)
Date Collected: 03/08/24 08:50
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-3
Matrix: Solid
Percent Solids: 78.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.00201		0.00480	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Chlorodibromomethane	<0.00201		0.00480	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2-Dibromo-3-Chloropropane	<0.00153		0.00959	0.00153	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Ethylene Dibromide	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Dibromomethane	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2-Dichlorobenzene	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,3-Dichlorobenzene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,4-Dichlorobenzene	<0.00173		0.00480	0.00173	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
trans-1,4-Dichloro-2-butene	<0.00230		0.00959	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Dichlorodifluoromethane	<0.00307		0.00480	0.00307	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1-Dichloroethane	<0.00278		0.00480	0.00278	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2-Dichloroethane	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
cis-1,2-Dichloroethene	<0.00278		0.00480	0.00278	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
trans-1,2-Dichloroethene	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1-Dichloroethene	<0.00345		0.00480	0.00345	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2-Dichloropropane	<0.00249		0.00480	0.00249	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,3-Dichloropropane	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
2,2-Dichloropropane	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1-Dichloropropene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
cis-1,3-Dichloropropene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
trans-1,3-Dichloropropene	<0.00249		0.00480	0.00249	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Ethylbenzene	<0.00201		0.00480	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Hexachlorobutadiene	<0.00393		0.00480	0.00393	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
2-Hexanone	<0.0182		0.0240	0.0182	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Iodomethane	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Isopropylbenzene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
4-Isopropyltoluene	<0.00249		0.00480	0.00249	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Methylene Chloride	<0.00767		0.00959	0.00767	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0173		0.0240	0.0173	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Methyl tert-butyl ether	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Naphthalene	<0.00297		0.00480	0.00297	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
N-Propylbenzene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Styrene	<0.00182		0.00480	0.00182	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1,1,2-Tetrachloroethane	<0.00125		0.00480	0.00125	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1,2,2-Tetrachloroethane	<0.00201		0.00480	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Tetrachloroethene	**0.0305**		0.00480	0.00249	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Toluene	<0.00249		0.00480	0.00249	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2,3-Trichlorobenzene	<0.00192		0.00480	0.00192	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2,4-Trichlorobenzene	<0.00240		0.00480	0.00240	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1,1-Trichloroethane	<0.00249		0.00480	0.00249	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1,2-Trichloroethane	<0.00144		0.00480	0.00144	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Trichloroethene	**0.00446**	**J**	0.00480	0.00173	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Trichlorofluoromethane	<0.00297		0.00480	0.00297	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2,3-Trichloropropane	<0.00173		0.00480	0.00173	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00286**	**J**	0.00480	0.00278	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,2,4-Trimethylbenzene	<0.00240		0.00480	0.00240	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
1,3,5-Trimethylbenzene	<0.00230		0.00480	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Vinyl acetate	<0.00527		0.00959	0.00527	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Vinyl chloride	<0.00269		0.00480	0.00269	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1

Client Sample ID: WAP-SS-04 (4)
Date Collected: 03/08/24 08:50
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-3
Matrix: Solid
Percent Solids: 78.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00221		0.00480	0.00221	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
m-Xylene & p-Xylene	<0.00211		0.00480	0.00211	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Xylenes, Total	<0.00345		0.00959	0.00345	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Isopropyl ether	<0.00144		0.00959	0.00144	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Hexane	<0.00163		0.00480	0.00163	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
n-Heptane	<0.00412		0.00480	0.00412	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1
Ethyl acetate	<0.00959		0.00959	0.00959	mg/Kg	☼	03/12/24 09:36	03/15/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*	*S1+*	*65 - 130*	*03/12/24 09:36*	*03/15/24 18:18*	*1*
Dibromofluoromethane (Surr)	*126*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:18*	*1*
4-Bromofluorobenzene (Surr)	*115*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0500		0.402	0.0500	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Acenaphthylene	<0.0439		0.402	0.0439	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Acetophenone	<0.0341		0.402	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Anthracene	<0.0305		0.402	0.0305	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Atrazine	<0.0280		0.402	0.0280	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Benzaldehyde	<0.0707		0.402	0.0707	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Benzo[a]anthracene	**0.0569**	**J**	0.402	0.0329	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Benzo[a]pyrene	**0.0952**	**J**	0.402	0.0634	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Benzo[b]fluoranthene	**0.0942**	**J**	0.402	0.0463	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Benzo[g,h,i]perylene	**0.0986**	**J**	0.402	0.0268	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Benzo[k]fluoranthene	<0.0793		0.402	0.0793	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
1,1'-Biphenyl	<2.07		2.07	2.07	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Bis(2-chloroethoxy)methane	<0.0476		0.402	0.0476	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Bis(2-chloroethyl)ether	<0.0549		0.402	0.0549	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
bis (2-chloroisopropyl) ether	<0.0366		0.402	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Bis(2-ethylhexyl) phthalate	<0.0354		0.402	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
4-Bromophenyl phenyl ether	<0.0439		0.402	0.0439	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Butyl benzyl phthalate	<0.0317		0.402	0.0317	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Caprolactam	<0.0805		0.402	0.0805	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Carbazole	<0.0366		0.402	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
4-Chloroaniline	<0.0634		0.805	0.0634	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
4-Chloro-3-methylphenol	<0.0427		0.402	0.0427	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2-Chloronaphthalene	<0.0427		0.402	0.0427	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2-Chlorophenol	<0.0488		0.402	0.0488	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
4-Chlorophenyl phenyl ether	<0.0537		0.402	0.0537	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Chrysene	**0.0780**	**J**	0.402	0.0256	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Dibenz(a,h)anthracene	<0.0476		0.402	0.0476	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Dibenzofuran	<0.0402		0.402	0.0402	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
3,3'-Dichlorobenzidine	<0.0341		0.805	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,4-Dichlorophenol	<0.0427		0.402	0.0427	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Diethyl phthalate	<0.0451		0.402	0.0451	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,4-Dimethylphenol	<0.0537		0.402	0.0537	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Dimethyl phthalate	<0.0415		0.402	0.0415	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Di-n-butyl phthalate	<0.0366		0.402	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-04 (4)

Lab Sample ID: 680-247829-3

Date Collected: 03/08/24 08:50
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.207		2.07	0.207	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,4-Dinitrophenol	<1.01		2.07	1.01	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,4-Dinitrotoluene	<0.0598		0.402	0.0598	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,6-Dinitrotoluene	<0.0512		0.402	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Di-n-octyl phthalate	<0.0354		0.402	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Fluoranthene	**0.0886**	**J**	0.402	0.0390	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Fluorene	<0.0439		0.402	0.0439	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Hexachlorobenzene	<0.0476		0.402	0.0476	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Hexachlorobutadiene	<0.0439		0.402	0.0439	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Hexachlorocyclopentadiene	<0.0500		0.402	0.0500	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Hexachloroethane	<0.0341		0.402	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Indeno[1,2,3-cd]pyrene	<0.0341		0.402	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Isophorone	<0.0402		0.402	0.0402	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2-Methylnaphthalene	<0.0463		0.402	0.0463	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2-Methylphenol	<0.0329		0.402	0.0329	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
3 & 4 Methylphenol	<0.0524		0.402	0.0524	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Naphthalene	<0.0366		0.402	0.0366	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2-Nitroaniline	<0.0549		2.07	0.0549	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
3-Nitroaniline	<0.0561		2.07	0.0561	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
4-Nitroaniline	<0.0598		2.07	0.0598	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Nitrobenzene	<0.0317		0.402	0.0317	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2-Nitrophenol	<0.0500		0.402	0.0500	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
4-Nitrophenol	<0.402		2.07	0.402	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
N-Nitrosodi-n-propylamine	<0.0390		0.402	0.0390	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
N-Nitrosodiphenylamine	<0.0402		0.402	0.0402	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Pentachlorophenol	<0.402		2.07	0.402	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Phenanthrene	**0.0678**	**J**	0.402	0.0329	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Phenol	<0.0415		0.402	0.0415	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Pyrene	**0.128**	**J**	0.402	0.0329	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
Pyridine	<0.402		0.805	0.402	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,4,5-Trichlorophenol	<0.0427		0.402	0.0427	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1
2,4,6-Trichlorophenol	<0.0354		0.402	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*25 - 130*	*03/13/24 10:00*	*03/14/24 05:23*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 130*	*03/13/24 10:00*	*03/14/24 05:23*	*1*
Nitrobenzene-d5 (Surr)	*69*		*19 - 130*	*03/13/24 10:00*	*03/14/24 05:23*	*1*
Phenol-d5 (Surr)	*71*		*21 - 130*	*03/13/24 10:00*	*03/14/24 05:23*	*1*
Terphenyl-d14 (Surr)	*76*		*31 - 133*	*03/13/24 10:00*	*03/14/24 05:23*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*21 - 132*	*03/13/24 10:00*	*03/14/24 05:23*	*1*

Client Sample ID: WAP-SS-04 (8)

Lab Sample ID: 680-247829-4

Date Collected: 03/08/24 08:55
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 77.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0323**	**J B**	0.0512	0.0113	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Benzene	<0.00246		0.00512	0.00246	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Bromobenzene	<0.00174		0.00512	0.00174	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-04 (8)
Date Collected: 03/08/24 08:55
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-4
Matrix: Solid
Percent Solids: 77.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Dichlorobromomethane	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Bromoform	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Bromomethane	<0.00246	*+	0.00512	0.00246	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
2-Butanone (MEK)	<0.00942		0.0256	0.00942	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
n-Butylbenzene	<0.00194		0.00512	0.00194	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
sec-Butylbenzene	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
tert-Butylbenzene	<0.00256		0.00512	0.00256	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Carbon disulfide	<0.00215		0.00512	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Carbon tetrachloride	<0.00215		0.00512	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Chlorobenzene	<0.00143		0.00512	0.00143	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Chloroethane	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Chloroform	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Chloromethane	<0.00246		0.00512	0.00246	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
2-Chlorotoluene	<0.00235		0.00512	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
4-Chlorotoluene	<0.00215		0.00512	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Chlorodibromomethane	<0.00215		0.00512	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2-Dibromo-3-Chloropropane	<0.00164		0.0102	0.00164	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Ethylene Dibromide	<0.00174		0.00512	0.00174	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Dibromomethane	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2-Dichlorobenzene	<0.00174		0.00512	0.00174	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,3-Dichlorobenzene	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,4-Dichlorobenzene	<0.00184		0.00512	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
trans-1,4-Dichloro-2-butene	<0.00246		0.0102	0.00246	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Dichlorodifluoromethane	<0.00328		0.00512	0.00328	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1-Dichloroethane	<0.00297		0.00512	0.00297	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2-Dichloroethane	<0.00235		0.00512	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
cis-1,2-Dichloroethene	<0.00297		0.00512	0.00297	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
trans-1,2-Dichloroethene	<0.00235		0.00512	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1-Dichloroethene	<0.00368		0.00512	0.00368	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2-Dichloropropane	<0.00266		0.00512	0.00266	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,3-Dichloropropane	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
2,2-Dichloropropane	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1-Dichloropropene	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
cis-1,3-Dichloropropene	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
trans-1,3-Dichloropropene	<0.00266		0.00512	0.00266	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Ethylbenzene	<0.00215		0.00512	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Hexachlorobutadiene	<0.00420		0.00512	0.00420	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
2-Hexanone	<0.0194		0.0256	0.0194	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Iodomethane	<0.00174		0.00512	0.00174	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Isopropylbenzene	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
4-Isopropyltoluene	<0.00266		0.00512	0.00266	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Methylene Chloride	<0.00819		0.0102	0.00819	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0184		0.0256	0.0184	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Methyl tert-butyl ether	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Naphthalene	**0.00393**	**J**	0.00512	0.00317	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
N-Propylbenzene	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Styrene	<0.00194		0.00512	0.00194	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1,1,2-Tetrachloroethane	<0.00133		0.00512	0.00133	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1

Client Sample ID: WAP-SS-04 (8)
Date Collected: 03/08/24 08:55
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-4
Matrix: Solid
Percent Solids: 77.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.00215		0.00512	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Tetrachloroethene	**0.0395**		0.00512	0.00266	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Toluene	<0.00266		0.00512	0.00266	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2,3-Trichlorobenzene	<0.00205		0.00512	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2,4-Trichlorobenzene	<0.00256		0.00512	0.00256	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1,1-Trichloroethane	<0.00266		0.00512	0.00266	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1,2-Trichloroethane	<0.00154		0.00512	0.00154	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Trichloroethene	**0.00453**	**J**	0.00512	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Trichlorofluoromethane	<0.00317		0.00512	0.00317	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2,3-Trichloropropane	<0.00184		0.00512	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00297		0.00512	0.00297	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,2,4-Trimethylbenzene	<0.00256		0.00512	0.00256	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
1,3,5-Trimethylbenzene	<0.00246		0.00512	0.00246	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Vinyl acetate	<0.00563		0.0102	0.00563	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Vinyl chloride	<0.00287		0.00512	0.00287	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
o-Xylene	<0.00235		0.00512	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
m-Xylene & p-Xylene	<0.00225		0.00512	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Xylenes, Total	<0.00368		0.0102	0.00368	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Isopropyl ether	<0.00154		0.0102	0.00154	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Hexane	<0.00174		0.00512	0.00174	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
n-Heptane	<0.00440		0.00512	0.00440	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1
Ethyl acetate	<0.0102		0.0102	0.0102	mg/Kg	☼	03/12/24 09:36	03/15/24 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*120*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:40*	*1*
Dibromofluoromethane (Surr)	*121*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:40*	*1*
4-Bromofluorobenzene (Surr)	*114*		*65 - 130*	*03/12/24 09:36*	*03/15/24 18:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0512		0.412	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Acenaphthylene	<0.0449		0.412	0.0449	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Acetophenone	<0.0349		0.412	0.0349	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Anthracene	**0.113**	**J**	0.412	0.0312	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Atrazine	<0.0287		0.412	0.0287	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Benzaldehyde	<0.0724		0.412	0.0724	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Benzo[a]anthracene	**0.335**	**J**	0.412	0.0337	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Benzo[a]pyrene	**0.284**	**J**	0.412	0.0649	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Benzo[b]fluoranthene	**0.205**	**J**	0.412	0.0474	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Benzo[g,h,i]perylene	**0.159**	**J**	0.412	0.0275	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Benzo[k]fluoranthene	**0.139**	**J**	0.412	0.0811	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
1,1'-Biphenyl	<2.12		2.12	2.12	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Bis(2-chloroethoxy)methane	<0.0487		0.412	0.0487	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Bis(2-chloroethyl)ether	<0.0562		0.412	0.0562	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
bis (2-chloroisopropyl) ether	<0.0374		0.412	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Bis(2-ethylhexyl) phthalate	<0.0362		0.412	0.0362	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4-Bromophenyl phenyl ether	<0.0449		0.412	0.0449	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Butyl benzyl phthalate	<0.0324		0.412	0.0324	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Caprolactam	<0.0824		0.412	0.0824	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-04 (8)
Date Collected: 03/08/24 08:55
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-4
Matrix: Solid
Percent Solids: 77.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<0.0374		0.412	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4-Chloroaniline	<0.0649		0.824	0.0649	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4-Chloro-3-methylphenol	<0.0437		0.412	0.0437	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2-Chloronaphthalene	<0.0437		0.412	0.0437	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2-Chlorophenol	<0.0499		0.412	0.0499	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4-Chlorophenyl phenyl ether	<0.0549		0.412	0.0549	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Chrysene	**0.382**	**J**	0.412	0.0262	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Dibenz(a,h)anthracene	<0.0487		0.412	0.0487	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Dibenzofuran	<0.0412		0.412	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
3,3'-Dichlorobenzidine	<0.0349		0.824	0.0349	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,4-Dichlorophenol	<0.0437		0.412	0.0437	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Diethyl phthalate	<0.0462		0.412	0.0462	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,4-Dimethylphenol	<0.0549		0.412	0.0549	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Dimethyl phthalate	<0.0424		0.412	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Di-n-butyl phthalate	<0.0374		0.412	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4,6-Dinitro-2-methylphenol	<0.212		2.12	0.212	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,4-Dinitrophenol	<1.04		2.12	1.04	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,4-Dinitrotoluene	<0.0611		0.412	0.0611	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,6-Dinitrotoluene	<0.0524		0.412	0.0524	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Di-n-octyl phthalate	<0.0362		0.412	0.0362	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Fluoranthene	**0.496**		0.412	0.0399	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Fluorene	**0.0993**	**J**	0.412	0.0449	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Hexachlorobenzene	<0.0487		0.412	0.0487	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Hexachlorobutadiene	<0.0449		0.412	0.0449	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Hexachlorocyclopentadiene	<0.0512		0.412	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Hexachloroethane	<0.0349		0.412	0.0349	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Indeno[1,2,3-cd]pyrene	**0.101**	**J**	0.412	0.0349	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Isophorone	<0.0412		0.412	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2-Methylnaphthalene	<0.0474		0.412	0.0474	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2-Methylphenol	<0.0337		0.412	0.0337	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
3 & 4 Methylphenol	<0.0537		0.412	0.0537	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Naphthalene	<0.0374		0.412	0.0374	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2-Nitroaniline	<0.0562		2.12	0.0562	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
3-Nitroaniline	<0.0574		2.12	0.0574	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4-Nitroaniline	<0.0611		2.12	0.0611	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Nitrobenzene	<0.0324		0.412	0.0324	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2-Nitrophenol	<0.0512		0.412	0.0512	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
4-Nitrophenol	<0.412		2.12	0.412	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
N-Nitrosodi-n-propylamine	<0.0399		0.412	0.0399	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
N-Nitrosodiphenylamine	<0.0412		0.412	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Pentachlorophenol	<0.412		2.12	0.412	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Phenanthrene	**0.801**		0.412	0.0337	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Phenol	<0.0424		0.412	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Pyrene	**0.867**		0.412	0.0337	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
Pyridine	<0.412		0.824	0.412	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,4,5-Trichlorophenol	<0.0437		0.412	0.0437	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1
2,4,6-Trichlorophenol	<0.0362		0.412	0.0362	mg/Kg	☼	03/13/24 10:00	03/14/24 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*25 - 130*	*03/13/24 10:00*	*03/14/24 05:49*	*1*

Client Sample ID: WAP-SS-04 (8)

Lab Sample ID: 680-247829-4

Date Collected: 03/08/24 08:55
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 77.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*67*		*18 - 130*	*03/13/24 10:00*	*03/14/24 05:49*	*1*
Nitrobenzene-d5 (Surr)	*67*		*19 - 130*	*03/13/24 10:00*	*03/14/24 05:49*	*1*
Phenol-d5 (Surr)	*68*		*21 - 130*	*03/13/24 10:00*	*03/14/24 05:49*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/13/24 10:00*	*03/14/24 05:49*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*21 - 132*	*03/13/24 10:00*	*03/14/24 05:49*	*1*

Client Sample ID: WAP-SS-05 (4)

Lab Sample ID: 680-247829-5

Date Collected: 03/08/24 09:00
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0555**	**B**	0.0419	0.00922	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Benzene	<0.00201		0.00419	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Bromobenzene	<0.00142		0.00419	0.00142	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Chlorobromomethane	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Dichlorobromomethane	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Bromoform	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Bromomethane	<0.00201	*+	0.00419	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
2-Butanone (MEK)	<0.00771		0.0210	0.00771	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
n-Butylbenzene	<0.00159		0.00419	0.00159	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
sec-Butylbenzene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
tert-Butylbenzene	<0.00210		0.00419	0.00210	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Carbon disulfide	<0.00176		0.00419	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Carbon tetrachloride	<0.00176		0.00419	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Chlorobenzene	<0.00117		0.00419	0.00117	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Chloroethane	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Chloroform	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Chloromethane	<0.00201		0.00419	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
2-Chlorotoluene	<0.00193		0.00419	0.00193	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
4-Chlorotoluene	<0.00176		0.00419	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Chlorodibromomethane	<0.00176		0.00419	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2-Dibromo-3-Chloropropane	<0.00134		0.00838	0.00134	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Ethylene Dibromide	<0.00142		0.00419	0.00142	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Dibromomethane	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2-Dichlorobenzene	<0.00142		0.00419	0.00142	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,3-Dichlorobenzene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,4-Dichlorobenzene	<0.00151		0.00419	0.00151	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
trans-1,4-Dichloro-2-butene	<0.00201		0.00838	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Dichlorodifluoromethane	<0.00268		0.00419	0.00268	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1-Dichloroethane	<0.00243		0.00419	0.00243	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2-Dichloroethane	<0.00193		0.00419	0.00193	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
cis-1,2-Dichloroethene	<0.00243		0.00419	0.00243	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
trans-1,2-Dichloroethene	<0.00193		0.00419	0.00193	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1-Dichloroethene	<0.00302		0.00419	0.00302	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2-Dichloropropane	<0.00218		0.00419	0.00218	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,3-Dichloropropane	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
2,2-Dichloropropane	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1-Dichloropropene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1

Client Sample ID: WAP-SS-05 (4)
Date Collected: 03/08/24 09:00
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-5
Matrix: Solid
Percent Solids: 78.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
trans-1,3-Dichloropropene	<0.00218		0.00419	0.00218	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Ethylbenzene	<0.00176		0.00419	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Hexachlorobutadiene	<0.00344		0.00419	0.00344	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
2-Hexanone	<0.0159		0.0210	0.0159	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Iodomethane	<0.00142		0.00419	0.00142	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Isopropylbenzene	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
4-Isopropyltoluene	<0.00218		0.00419	0.00218	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Methylene Chloride	<0.00671		0.00838	0.00671	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
4-Methyl-2-pentanone (MIBK)	<0.0151		0.0210	0.0151	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Methyl tert-butyl ether	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Naphthalene	**0.00336**	**J**	0.00419	0.00260	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
N-Propylbenzene	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Styrene	<0.00159		0.00419	0.00159	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1,1,2-Tetrachloroethane	<0.00109		0.00419	0.00109	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1,2,2-Tetrachloroethane	<0.00176		0.00419	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Tetrachloroethene	**0.00423**		0.00419	0.00218	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Toluene	<0.00218		0.00419	0.00218	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2,3-Trichlorobenzene	<0.00168		0.00419	0.00168	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2,4-Trichlorobenzene	<0.00210		0.00419	0.00210	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1,1-Trichloroethane	<0.00218		0.00419	0.00218	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1,2-Trichloroethane	<0.00126		0.00419	0.00126	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Trichloroethene	**0.00256**	**J**	0.00419	0.00151	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Trichlorofluoromethane	<0.00260		0.00419	0.00260	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2,3-Trichloropropane	<0.00151		0.00419	0.00151	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00243		0.00419	0.00243	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,2,4-Trimethylbenzene	<0.00210		0.00419	0.00210	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
1,3,5-Trimethylbenzene	<0.00201		0.00419	0.00201	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Vinyl acetate	<0.00461		0.00838	0.00461	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Vinyl chloride	<0.00235		0.00419	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
o-Xylene	<0.00193		0.00419	0.00193	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
m-Xylene & p-Xylene	<0.00184		0.00419	0.00184	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Xylenes, Total	<0.00302		0.00838	0.00302	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Isopropyl ether	<0.00126		0.00838	0.00126	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Hexane	<0.00142		0.00419	0.00142	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
n-Heptane	<0.00360		0.00419	0.00360	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1
Ethyl acetate	<0.00838		0.00838	0.00838	mg/Kg	☼	03/12/24 09:36	03/15/24 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*121*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:02*	*1*
Dibromofluoromethane (Surr)	*122*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:02*	*1*
4-Bromofluorobenzene (Surr)	*114*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0505		0.407	0.0505	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Acenaphthylene	<0.0444		0.407	0.0444	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Acetophenone	<0.0345		0.407	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Anthracene	<0.0308		0.407	0.0308	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-05 (4)
Date Collected: 03/08/24 09:00
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-5
Matrix: Solid
Percent Solids: 78.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<0.0284		0.407	0.0284	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Benzaldehyde	<0.0715		0.407	0.0715	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Benzo[a]anthracene	<0.0333		0.407	0.0333	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Benzo[a]pyrene	<0.0641		0.407	0.0641	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Benzo[b]fluoranthene	<0.0468		0.407	0.0468	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Benzo[g,h,i]perylene	<0.0271		0.407	0.0271	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Benzo[k]fluoranthene	<0.0801		0.407	0.0801	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
1,1'-Biphenyl	<2.10		2.10	2.10	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Bis(2-chloroethoxy)methane	<0.0481		0.407	0.0481	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Bis(2-chloroethyl)ether	<0.0555		0.407	0.0555	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
bis (2-chloroisopropyl) ether	<0.0370		0.407	0.0370	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Bis(2-ethylhexyl) phthalate	<0.0358		0.407	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
4-Bromophenyl phenyl ether	<0.0444		0.407	0.0444	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Butyl benzyl phthalate	<0.0321		0.407	0.0321	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Caprolactam	<0.0814		0.407	0.0814	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Carbazole	<0.0370		0.407	0.0370	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
4-Chloroaniline	<0.0641		0.814	0.0641	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
4-Chloro-3-methylphenol	<0.0432		0.407	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2-Chloronaphthalene	<0.0432		0.407	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2-Chlorophenol	<0.0493		0.407	0.0493	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
4-Chlorophenyl phenyl ether	<0.0542		0.407	0.0542	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Chrysene	<0.0259		0.407	0.0259	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Dibenz(a,h)anthracene	<0.0481		0.407	0.0481	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Dibenzofuran	<0.0407		0.407	0.0407	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
3,3'-Dichlorobenzidine	<0.0345		0.814	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,4-Dichlorophenol	<0.0432		0.407	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Diethyl phthalate	<0.0456		0.407	0.0456	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,4-Dimethylphenol	<0.0542		0.407	0.0542	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Dimethyl phthalate	<0.0419		0.407	0.0419	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Di-n-butyl phthalate	<0.0370		0.407	0.0370	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
4,6-Dinitro-2-methylphenol	<0.210		2.10	0.210	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,4-Dinitrophenol	<1.02		2.10	1.02	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,4-Dinitrotoluene	<0.0604		0.407	0.0604	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,6-Dinitrotoluene	<0.0518		0.407	0.0518	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Di-n-octyl phthalate	<0.0358		0.407	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Fluoranthene	<0.0395		0.407	0.0395	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Fluorene	<0.0444		0.407	0.0444	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Hexachlorobenzene	<0.0481		0.407	0.0481	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Hexachlorobutadiene	<0.0444		0.407	0.0444	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Hexachlorocyclopentadiene	<0.0505		0.407	0.0505	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Hexachloroethane	<0.0345		0.407	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Indeno[1,2,3-cd]pyrene	<0.0345		0.407	0.0345	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Isophorone	<0.0407		0.407	0.0407	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2-Methylnaphthalene	<0.0468		0.407	0.0468	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2-Methylphenol	<0.0333		0.407	0.0333	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
3 & 4 Methylphenol	<0.0530		0.407	0.0530	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Naphthalene	<0.0370		0.407	0.0370	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2-Nitroaniline	<0.0555		2.10	0.0555	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
3-Nitroaniline	<0.0567		2.10	0.0567	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1

Client Sample ID: WAP-SS-05 (4)

Lab Sample ID: 680-247829-5

Date Collected: 03/08/24 09:00
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<0.0604		2.10	0.0604	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Nitrobenzene	<0.0321		0.407	0.0321	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2-Nitrophenol	<0.0505		0.407	0.0505	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
4-Nitrophenol	<0.407		2.10	0.407	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
N-Nitrosodi-n-propylamine	<0.0395		0.407	0.0395	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
N-Nitrosodiphenylamine	<0.0407		0.407	0.0407	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Pentachlorophenol	<0.407		2.10	0.407	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Phenanthrene	<0.0333		0.407	0.0333	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Phenol	<0.0419		0.407	0.0419	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Pyrene	<0.0333		0.407	0.0333	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
Pyridine	<0.407		0.814	0.407	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,4,5-Trichlorophenol	<0.0432		0.407	0.0432	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1
2,4,6-Trichlorophenol	<0.0358		0.407	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/13/24 10:00*	*03/14/24 06:16*	*1*
2-Fluorophenol (Surr)	*70*		*18 - 130*	*03/13/24 10:00*	*03/14/24 06:16*	*1*
Nitrobenzene-d5 (Surr)	*69*		*19 - 130*	*03/13/24 10:00*	*03/14/24 06:16*	*1*
Phenol-d5 (Surr)	*70*		*21 - 130*	*03/13/24 10:00*	*03/14/24 06:16*	*1*
Terphenyl-d14 (Surr)	*78*		*31 - 133*	*03/13/24 10:00*	*03/14/24 06:16*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*21 - 132*	*03/13/24 10:00*	*03/14/24 06:16*	*1*

Client Sample ID: WAP-SS-05 (8)

Lab Sample ID: 680-247829-6

Date Collected: 03/08/24 09:05
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 77.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0449**	**J B**	0.0523	0.0115	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Benzene	<0.00251		0.00523	0.00251	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Bromobenzene	<0.00178		0.00523	0.00178	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Chlorobromomethane	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Dichlorobromomethane	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Bromoform	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Bromomethane	<0.00251	*+	0.00523	0.00251	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
2-Butanone (MEK)	<0.00963		0.0262	0.00963	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
n-Butylbenzene	<0.00199		0.00523	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
sec-Butylbenzene	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
tert-Butylbenzene	<0.00262		0.00523	0.00262	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Carbon disulfide	<0.00220		0.00523	0.00220	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Carbon tetrachloride	<0.00220		0.00523	0.00220	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Chlorobenzene	<0.00147		0.00523	0.00147	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Chloroethane	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Chloroform	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Chloromethane	<0.00251		0.00523	0.00251	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
2-Chlorotoluene	<0.00241		0.00523	0.00241	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
4-Chlorotoluene	<0.00220		0.00523	0.00220	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Chlorodibromomethane	<0.00220		0.00523	0.00220	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2-Dibromo-3-Chloropropane	<0.00167		0.0105	0.00167	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Ethylene Dibromide	<0.00178		0.00523	0.00178	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-05 (8)
Date Collected: 03/08/24 09:05
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-6
Matrix: Solid
Percent Solids: 77.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2-Dichlorobenzene	<0.00178		0.00523	0.00178	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,3-Dichlorobenzene	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,4-Dichlorobenzene	<0.00188		0.00523	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
trans-1,4-Dichloro-2-butene	<0.00251		0.0105	0.00251	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Dichlorodifluoromethane	<0.00335		0.00523	0.00335	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1-Dichloroethane	<0.00303		0.00523	0.00303	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2-Dichloroethane	<0.00241		0.00523	0.00241	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
cis-1,2-Dichloroethene	<0.00303		0.00523	0.00303	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
trans-1,2-Dichloroethene	<0.00241		0.00523	0.00241	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1-Dichloroethene	<0.00377		0.00523	0.00377	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2-Dichloropropane	<0.00272		0.00523	0.00272	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,3-Dichloropropane	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
2,2-Dichloropropane	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1-Dichloropropene	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
cis-1,3-Dichloropropene	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
trans-1,3-Dichloropropene	<0.00272		0.00523	0.00272	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Ethylbenzene	<0.00220		0.00523	0.00220	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Hexachlorobutadiene	<0.00429		0.00523	0.00429	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
2-Hexanone	<0.0199		0.0262	0.0199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Iodomethane	<0.00178		0.00523	0.00178	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Isopropylbenzene	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
4-Isopropyltoluene	<0.00272		0.00523	0.00272	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Methylene Chloride	<0.00837		0.0105	0.00837	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
4-Methyl-2-pentanone (MIBK)	<0.0188		0.0262	0.0188	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Methyl tert-butyl ether	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Naphthalene	<0.00324		0.00523	0.00324	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
N-Propylbenzene	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Styrene	<0.00199		0.00523	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1,1,2-Tetrachloroethane	<0.00136		0.00523	0.00136	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1,2,2-Tetrachloroethane	<0.00220		0.00523	0.00220	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Tetrachloroethene	**0.00314**	**J**	0.00523	0.00272	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Toluene	<0.00272		0.00523	0.00272	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2,3-Trichlorobenzene	<0.00209		0.00523	0.00209	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2,4-Trichlorobenzene	<0.00262		0.00523	0.00262	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1,1-Trichloroethane	<0.00272		0.00523	0.00272	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1,2-Trichloroethane	<0.00157		0.00523	0.00157	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Trichloroethene	**0.00338**	**J**	0.00523	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Trichlorofluoromethane	<0.00324		0.00523	0.00324	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2,3-Trichloropropane	<0.00188		0.00523	0.00188	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00303		0.00523	0.00303	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,2,4-Trimethylbenzene	<0.00262		0.00523	0.00262	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
1,3,5-Trimethylbenzene	<0.00251		0.00523	0.00251	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Vinyl acetate	<0.00576		0.0105	0.00576	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Vinyl chloride	<0.00293		0.00523	0.00293	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
o-Xylene	<0.00241		0.00523	0.00241	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
m-Xylene & p-Xylene	<0.00230		0.00523	0.00230	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Xylenes, Total	<0.00377		0.0105	0.00377	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Isopropyl ether	<0.00157		0.0105	0.00157	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1

Client Sample ID: WAP-SS-05 (8)
Date Collected: 03/08/24 09:05
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-6
Matrix: Solid
Percent Solids: 77.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	<0.00178		0.00523	0.00178	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
n-Heptane	<0.00450		0.00523	0.00450	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1
Ethyl acetate	<0.0105		0.0105	0.0105	mg/Kg	☼	03/12/24 09:36	03/15/24 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*122*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*131*	*S1+*	*65 - 130*	*03/12/24 09:36*	*03/15/24 19:24*	*1*
Dibromofluoromethane (Surr)	*122*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:24*	*1*
4-Bromofluorobenzene (Surr)	*115*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0519		0.417	0.0519	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Acenaphthylene	<0.0455		0.417	0.0455	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Acetophenone	<0.0354		0.417	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Anthracene	<0.0316		0.417	0.0316	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Atrazine	<0.0291		0.417	0.0291	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Benzaldehyde	<0.0734		0.417	0.0734	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Benzo[a]anthracene	<0.0341		0.417	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Benzo[a]pyrene	<0.0658		0.417	0.0658	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Benzo[b]fluoranthene	<0.0481		0.417	0.0481	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Benzo[g,h,i]perylene	<0.0278		0.417	0.0278	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Benzo[k]fluoranthene	<0.0822		0.417	0.0822	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
1,1'-Biphenyl	<2.15		2.15	2.15	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Bis(2-chloroethoxy)methane	<0.0493		0.417	0.0493	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Bis(2-chloroethyl)ether	<0.0569		0.417	0.0569	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
bis (2-chloroisopropyl) ether	<0.0379		0.417	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Bis(2-ethylhexyl) phthalate	<0.0367		0.417	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4-Bromophenyl phenyl ether	<0.0455		0.417	0.0455	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Butyl benzyl phthalate	<0.0329		0.417	0.0329	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Caprolactam	<0.0835		0.417	0.0835	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Carbazole	<0.0379		0.417	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4-Chloroaniline	<0.0658		0.835	0.0658	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4-Chloro-3-methylphenol	<0.0443		0.417	0.0443	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2-Chloronaphthalene	<0.0443		0.417	0.0443	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2-Chlorophenol	<0.0506		0.417	0.0506	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4-Chlorophenyl phenyl ether	<0.0556		0.417	0.0556	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Chrysene	<0.0266		0.417	0.0266	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Dibenz(a,h)anthracene	<0.0493		0.417	0.0493	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Dibenzofuran	<0.0417		0.417	0.0417	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
3,3'-Dichlorobenzidine	<0.0354		0.835	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,4-Dichlorophenol	<0.0443		0.417	0.0443	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Diethyl phthalate	<0.0468		0.417	0.0468	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,4-Dimethylphenol	<0.0556		0.417	0.0556	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Dimethyl phthalate	<0.0430		0.417	0.0430	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Di-n-butyl phthalate	<0.0379		0.417	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4,6-Dinitro-2-methylphenol	<0.215		2.15	0.215	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,4-Dinitrophenol	<1.05		2.15	1.05	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,4-Dinitrotoluene	<0.0620		0.417	0.0620	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,6-Dinitrotoluene	<0.0531		0.417	0.0531	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1

Client Sample ID: WAP-SS-05 (8)

Lab Sample ID: 680-247829-6

Date Collected: 03/08/24 09:05
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 77.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.0367		0.417	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Fluoranthene	<0.0405		0.417	0.0405	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Fluorene	<0.0455		0.417	0.0455	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Hexachlorobenzene	<0.0493		0.417	0.0493	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Hexachlorobutadiene	<0.0455		0.417	0.0455	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Hexachlorocyclopentadiene	<0.0519		0.417	0.0519	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Hexachloroethane	<0.0354		0.417	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Indeno[1,2,3-cd]pyrene	<0.0354		0.417	0.0354	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Isophorone	<0.0417		0.417	0.0417	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2-Methylnaphthalene	<0.0481		0.417	0.0481	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2-Methylphenol	<0.0341		0.417	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
3 & 4 Methylphenol	<0.0544		0.417	0.0544	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Naphthalene	<0.0379		0.417	0.0379	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2-Nitroaniline	<0.0569		2.15	0.0569	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
3-Nitroaniline	<0.0582		2.15	0.0582	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4-Nitroaniline	<0.0620		2.15	0.0620	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Nitrobenzene	<0.0329		0.417	0.0329	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2-Nitrophenol	<0.0519		0.417	0.0519	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
4-Nitrophenol	<0.417		2.15	0.417	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
N-Nitrosodi-n-propylamine	<0.0405		0.417	0.0405	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
N-Nitrosodiphenylamine	<0.0417		0.417	0.0417	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Pentachlorophenol	<0.417		2.15	0.417	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Phenanthrene	<0.0341		0.417	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Phenol	<0.0430		0.417	0.0430	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Pyrene	<0.0341		0.417	0.0341	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
Pyridine	<0.417		0.835	0.417	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,4,5-Trichlorophenol	<0.0443		0.417	0.0443	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1
2,4,6-Trichlorophenol	<0.0367		0.417	0.0367	mg/Kg	☼	03/13/24 10:00	03/14/24 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*25 - 130*	*03/13/24 10:00*	*03/14/24 06:42*	*1*
2-Fluorophenol (Surr)	*71*		*18 - 130*	*03/13/24 10:00*	*03/14/24 06:42*	*1*
Nitrobenzene-d5 (Surr)	*70*		*19 - 130*	*03/13/24 10:00*	*03/14/24 06:42*	*1*
Phenol-d5 (Surr)	*72*		*21 - 130*	*03/13/24 10:00*	*03/14/24 06:42*	*1*
Terphenyl-d14 (Surr)	*80*		*31 - 133*	*03/13/24 10:00*	*03/14/24 06:42*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 132*	*03/13/24 10:00*	*03/14/24 06:42*	*1*

Client Sample ID: WAP-SS-06 (4)

Lab Sample ID: 680-247829-7

Date Collected: 03/08/24 09:10
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 81.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0244**	**J B**	0.0451	0.00993	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Benzene	<0.00217		0.00451	0.00217	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Bromobenzene	<0.00153		0.00451	0.00153	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Chlorobromomethane	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Dichlorobromomethane	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Bromoform	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Bromomethane	<0.00217	*+	0.00451	0.00217	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-06 (4)
Date Collected: 03/08/24 09:10
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-7
Matrix: Solid
Percent Solids: 81.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<0.00830		0.0226	0.00830	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
n-Butylbenzene	<0.00171		0.00451	0.00171	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
sec-Butylbenzene	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
tert-Butylbenzene	<0.00226		0.00451	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Carbon disulfide	<0.00190		0.00451	0.00190	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Carbon tetrachloride	<0.00190		0.00451	0.00190	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Chlorobenzene	<0.00126		0.00451	0.00126	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Chloroethane	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Chloroform	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Chloromethane	<0.00217		0.00451	0.00217	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
2-Chlorotoluene	<0.00208		0.00451	0.00208	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
4-Chlorotoluene	<0.00190		0.00451	0.00190	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Chlorodibromomethane	<0.00190		0.00451	0.00190	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2-Dibromo-3-Chloropropane	<0.00144		0.00903	0.00144	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Ethylene Dibromide	<0.00153		0.00451	0.00153	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Dibromomethane	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2-Dichlorobenzene	<0.00153		0.00451	0.00153	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,3-Dichlorobenzene	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,4-Dichlorobenzene	<0.00162		0.00451	0.00162	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
trans-1,4-Dichloro-2-butene	<0.00217		0.00903	0.00217	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Dichlorodifluoromethane	<0.00289		0.00451	0.00289	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1-Dichloroethane	<0.00262		0.00451	0.00262	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2-Dichloroethane	<0.00208		0.00451	0.00208	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
cis-1,2-Dichloroethene	<0.00262		0.00451	0.00262	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
trans-1,2-Dichloroethene	<0.00208		0.00451	0.00208	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1-Dichloroethene	<0.00325		0.00451	0.00325	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2-Dichloropropane	<0.00235		0.00451	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,3-Dichloropropane	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
2,2-Dichloropropane	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1-Dichloropropene	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
cis-1,3-Dichloropropene	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
trans-1,3-Dichloropropene	<0.00235		0.00451	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Ethylbenzene	<0.00190		0.00451	0.00190	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Hexachlorobutadiene	<0.00370		0.00451	0.00370	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
2-Hexanone	<0.0171		0.0226	0.0171	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Iodomethane	<0.00153		0.00451	0.00153	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Isopropylbenzene	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
4-Isopropyltoluene	<0.00235		0.00451	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Methylene Chloride	<0.00722		0.00903	0.00722	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
4-Methyl-2-pentanone (MIBK)	<0.0162		0.0226	0.0162	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Methyl tert-butyl ether	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Naphthalene	<0.00280		0.00451	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
N-Propylbenzene	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Styrene	<0.00171		0.00451	0.00171	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1,1,2-Tetrachloroethane	<0.00117		0.00451	0.00117	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1,2,2-Tetrachloroethane	<0.00190		0.00451	0.00190	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Tetrachloroethene	**0.0114**		0.00451	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Toluene	<0.00235		0.00451	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2,3-Trichlorobenzene	<0.00181		0.00451	0.00181	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-06 (4)
Date Collected: 03/08/24 09:10
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-7
Matrix: Solid
Percent Solids: 81.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00226		0.00451	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1,1-Trichloroethane	<0.00235		0.00451	0.00235	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1,2-Trichloroethane	<0.00135		0.00451	0.00135	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Trichloroethene	**0.00325**	**J**	0.00451	0.00162	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Trichlorofluoromethane	<0.00280		0.00451	0.00280	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2,3-Trichloropropane	<0.00162		0.00451	0.00162	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.00351**	**J**	0.00451	0.00262	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,2,4-Trimethylbenzene	<0.00226		0.00451	0.00226	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
1,3,5-Trimethylbenzene	<0.00217		0.00451	0.00217	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Vinyl acetate	<0.00496		0.00903	0.00496	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Vinyl chloride	<0.00253		0.00451	0.00253	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
o-Xylene	<0.00208		0.00451	0.00208	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
m-Xylene & p-Xylene	<0.00199		0.00451	0.00199	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Xylenes, Total	<0.00325		0.00903	0.00325	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Isopropyl ether	<0.00135		0.00903	0.00135	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Hexane	<0.00153		0.00451	0.00153	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
n-Heptane	<0.00388		0.00451	0.00388	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1
Ethyl acetate	<0.00903		0.00903	0.00903	mg/Kg	☼	03/12/24 09:36	03/15/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*120*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:45*	*1*
Dibromofluoromethane (Surr)	*125*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:45*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*	*03/12/24 09:36*	*03/15/24 19:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0483		0.389	0.0483	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Acenaphthylene	<0.0424		0.389	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Acetophenone	<0.0330		0.389	0.0330	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Anthracene	<0.0295		0.389	0.0295	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Atrazine	<0.0271		0.389	0.0271	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Benzaldehyde	<0.0683		0.389	0.0683	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Benzo[a]anthracene	<0.0318		0.389	0.0318	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Benzo[a]pyrene	<0.0613		0.389	0.0613	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Benzo[b]fluoranthene	<0.0448		0.389	0.0448	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Benzo[g,h,i]perylene	<0.0259		0.389	0.0259	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Benzo[k]fluoranthene	<0.0766		0.389	0.0766	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
1,1'-Biphenyl	<2.00		2.00	2.00	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Bis(2-chloroethoxy)methane	<0.0460		0.389	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Bis(2-chloroethyl)ether	<0.0530		0.389	0.0530	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
bis (2-chloroisopropyl) ether	<0.0353		0.389	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Bis(2-ethylhexyl) phthalate	<0.0342		0.389	0.0342	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4-Bromophenyl phenyl ether	<0.0424		0.389	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Butyl benzyl phthalate	<0.0306		0.389	0.0306	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Caprolactam	<0.0778		0.389	0.0778	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Carbazole	<0.0353		0.389	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4-Chloroaniline	<0.0613		0.778	0.0613	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4-Chloro-3-methylphenol	<0.0412		0.389	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-06 (4)
Date Collected: 03/08/24 09:10
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-7
Matrix: Solid
Percent Solids: 81.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<0.0412		0.389	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2-Chlorophenol	<0.0471		0.389	0.0471	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4-Chlorophenyl phenyl ether	<0.0518		0.389	0.0518	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Chrysene	<0.0247		0.389	0.0247	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Dibenz(a,h)anthracene	<0.0460		0.389	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Dibenzofuran	<0.0389		0.389	0.0389	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
3,3'-Dichlorobenzidine	<0.0330		0.778	0.0330	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,4-Dichlorophenol	<0.0412		0.389	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Diethyl phthalate	<0.0436		0.389	0.0436	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,4-Dimethylphenol	<0.0518		0.389	0.0518	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Dimethyl phthalate	<0.0401		0.389	0.0401	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Di-n-butyl phthalate	<0.0353		0.389	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4,6-Dinitro-2-methylphenol	<0.200		2.00	0.200	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,4-Dinitrophenol	<0.978		2.00	0.978	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,4-Dinitrotoluene	<0.0577		0.389	0.0577	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,6-Dinitrotoluene	<0.0495		0.389	0.0495	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Di-n-octyl phthalate	<0.0342		0.389	0.0342	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Fluoranthene	<0.0377		0.389	0.0377	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Fluorene	<0.0424		0.389	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Hexachlorobenzene	<0.0460		0.389	0.0460	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Hexachlorobutadiene	<0.0424		0.389	0.0424	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Hexachlorocyclopentadiene	<0.0483		0.389	0.0483	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Hexachloroethane	<0.0330		0.389	0.0330	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Indeno[1,2,3-cd]pyrene	<0.0330		0.389	0.0330	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Isophorone	<0.0389		0.389	0.0389	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2-Methylnaphthalene	<0.0448		0.389	0.0448	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2-Methylphenol	<0.0318		0.389	0.0318	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
3 & 4 Methylphenol	<0.0507		0.389	0.0507	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Naphthalene	<0.0353		0.389	0.0353	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2-Nitroaniline	<0.0530		2.00	0.0530	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
3-Nitroaniline	<0.0542		2.00	0.0542	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4-Nitroaniline	<0.0577		2.00	0.0577	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Nitrobenzene	<0.0306		0.389	0.0306	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2-Nitrophenol	<0.0483		0.389	0.0483	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
4-Nitrophenol	<0.389		2.00	0.389	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
N-Nitrosodi-n-propylamine	<0.0377		0.389	0.0377	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
N-Nitrosodiphenylamine	<0.0389		0.389	0.0389	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Pentachlorophenol	<0.389		2.00	0.389	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Phenanthrene	<0.0318		0.389	0.0318	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Phenol	<0.0401		0.389	0.0401	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Pyrene	<0.0318		0.389	0.0318	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
Pyridine	<0.389		0.778	0.389	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,4,5-Trichlorophenol	<0.0412		0.389	0.0412	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1
2,4,6-Trichlorophenol	<0.0342		0.389	0.0342	mg/Kg	☼	03/13/24 10:00	03/14/24 07:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*	*03/13/24 10:00*	*03/14/24 07:08*	*1*
2-Fluorophenol (Surr)	*69*		*18 - 130*	*03/13/24 10:00*	*03/14/24 07:08*	*1*
Nitrobenzene-d5 (Surr)	*68*		*19 - 130*	*03/13/24 10:00*	*03/14/24 07:08*	*1*
Phenol-d5 (Surr)	*69*		*21 - 130*	*03/13/24 10:00*	*03/14/24 07:08*	*1*

Client Sample ID: WAP-SS-06 (4)

Lab Sample ID: 680-247829-7

Date Collected: 03/08/24 09:10
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 81.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*76*		*31 - 133*	*03/13/24 10:00*	*03/14/24 07:08*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*21 - 132*	*03/13/24 10:00*	*03/14/24 07:08*	*1*

Client Sample ID: WAP-SS-06 (8)

Lab Sample ID: 680-247829-8

Date Collected: 03/08/24 09:15
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 79.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0285**	**J B**	0.0488	0.0107	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Benzene	<0.00234		0.00488	0.00234	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Bromobenzene	<0.00166		0.00488	0.00166	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Chlorobromomethane	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Dichlorobromomethane	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Bromoform	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Bromomethane	<0.00234	*+	0.00488	0.00234	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
2-Butanone (MEK)	<0.00898		0.0244	0.00898	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
n-Butylbenzene	<0.00186		0.00488	0.00186	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
sec-Butylbenzene	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
tert-Butylbenzene	<0.00244		0.00488	0.00244	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Carbon disulfide	<0.00205		0.00488	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Carbon tetrachloride	<0.00205		0.00488	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Chlorobenzene	<0.00137		0.00488	0.00137	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Chloroethane	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Chloroform	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Chloromethane	<0.00234		0.00488	0.00234	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
2-Chlorotoluene	<0.00225		0.00488	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
4-Chlorotoluene	<0.00205		0.00488	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Chlorodibromomethane	<0.00205		0.00488	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2-Dibromo-3-Chloropropane	<0.00156		0.00977	0.00156	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Ethylene Dibromide	<0.00166		0.00488	0.00166	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Dibromomethane	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2-Dichlorobenzene	<0.00166		0.00488	0.00166	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,3-Dichlorobenzene	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,4-Dichlorobenzene	<0.00176		0.00488	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
trans-1,4-Dichloro-2-butene	<0.00234		0.00977	0.00234	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Dichlorodifluoromethane	<0.00313		0.00488	0.00313	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1-Dichloroethane	<0.00283		0.00488	0.00283	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2-Dichloroethane	<0.00225		0.00488	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
cis-1,2-Dichloroethene	<0.00283		0.00488	0.00283	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
trans-1,2-Dichloroethene	<0.00225		0.00488	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1-Dichloroethene	<0.00352		0.00488	0.00352	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2-Dichloropropane	<0.00254		0.00488	0.00254	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,3-Dichloropropane	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
2,2-Dichloropropane	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1-Dichloropropene	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
cis-1,3-Dichloropropene	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
trans-1,3-Dichloropropene	<0.00254		0.00488	0.00254	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Ethylbenzene	<0.00205		0.00488	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-06 (8)
Date Collected: 03/08/24 09:15
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-8
Matrix: Solid
Percent Solids: 79.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.00400		0.00488	0.00400	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
2-Hexanone	<0.0186		0.0244	0.0186	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Iodomethane	<0.00166		0.00488	0.00166	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Isopropylbenzene	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
4-Isopropyltoluene	<0.00254		0.00488	0.00254	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Methylene Chloride	<0.00781		0.00977	0.00781	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
4-Methyl-2-pentanone (MIBK)	<0.0176		0.0244	0.0176	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Methyl tert-butyl ether	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Naphthalene	<0.00303		0.00488	0.00303	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
N-Propylbenzene	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Styrene	<0.00186		0.00488	0.00186	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1,1,2-Tetrachloroethane	<0.00127		0.00488	0.00127	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1,2,2-Tetrachloroethane	<0.00205		0.00488	0.00205	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Tetrachloroethene	**0.00583**		0.00488	0.00254	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Toluene	<0.00254		0.00488	0.00254	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2,3-Trichlorobenzene	<0.00195		0.00488	0.00195	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2,4-Trichlorobenzene	<0.00244		0.00488	0.00244	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1,1-Trichloroethane	<0.00254		0.00488	0.00254	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1,2-Trichloroethane	<0.00146		0.00488	0.00146	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Trichloroethene	**0.00308**	**J**	0.00488	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Trichlorofluoromethane	<0.00303		0.00488	0.00303	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2,3-Trichloropropane	<0.00176		0.00488	0.00176	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00283		0.00488	0.00283	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,2,4-Trimethylbenzene	<0.00244		0.00488	0.00244	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
1,3,5-Trimethylbenzene	<0.00234		0.00488	0.00234	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Vinyl acetate	<0.00537		0.00977	0.00537	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Vinyl chloride	<0.00273		0.00488	0.00273	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
o-Xylene	<0.00225		0.00488	0.00225	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
m-Xylene & p-Xylene	<0.00215		0.00488	0.00215	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Xylenes, Total	<0.00352		0.00977	0.00352	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Isopropyl ether	<0.00146		0.00977	0.00146	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Hexane	<0.00166		0.00488	0.00166	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
n-Heptane	<0.00420		0.00488	0.00420	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1
Ethyl acetate	<0.00977		0.00977	0.00977	mg/Kg	☼	03/12/24 09:36	03/15/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*122*		*65 - 130*	*03/12/24 09:36*	*03/15/24 20:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*131*	*S1+*	*65 - 130*	*03/12/24 09:36*	*03/15/24 20:07*	*1*
Dibromofluoromethane (Surr)	*125*		*65 - 130*	*03/12/24 09:36*	*03/15/24 20:07*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*03/12/24 09:36*	*03/15/24 20:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0489		0.394	0.0489	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Acenaphthylene	<0.0430		0.394	0.0430	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Acetophenone	<0.0334		0.394	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Anthracene	<0.0298		0.394	0.0298	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Atrazine	<0.0274		0.394	0.0274	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Benzaldehyde	<0.0692		0.394	0.0692	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Benzo[a]anthracene	<0.0322		0.394	0.0322	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-06 (8)
Date Collected: 03/08/24 09:15
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-8
Matrix: Solid
Percent Solids: 79.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.0621		0.394	0.0621	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Benzo[b]fluoranthene	<0.0453		0.394	0.0453	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Benzo[g,h,i]perylene	<0.0263		0.394	0.0263	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Benzo[k]fluoranthene	<0.0776		0.394	0.0776	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
1,1'-Biphenyl	<2.03		2.03	2.03	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Bis(2-chloroethoxy)methane	<0.0465		0.394	0.0465	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Bis(2-chloroethyl)ether	<0.0537		0.394	0.0537	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
bis (2-chloroisopropyl) ether	<0.0358		0.394	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Bis(2-ethylhexyl) phthalate	<0.0346		0.394	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
4-Bromophenyl phenyl ether	<0.0430		0.394	0.0430	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Butyl benzyl phthalate	<0.0310		0.394	0.0310	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Caprolactam	<0.0788		0.394	0.0788	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Carbazole	<0.0358		0.394	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
4-Chloroaniline	<0.0621		0.788	0.0621	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
4-Chloro-3-methylphenol	<0.0418		0.394	0.0418	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2-Chloronaphthalene	<0.0418		0.394	0.0418	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2-Chlorophenol	<0.0477		0.394	0.0477	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
4-Chlorophenyl phenyl ether	<0.0525		0.394	0.0525	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Chrysene	<0.0251		0.394	0.0251	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Dibenz(a,h)anthracene	<0.0465		0.394	0.0465	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Dibenzofuran	<0.0394		0.394	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
3,3'-Dichlorobenzidine	<0.0334		0.788	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,4-Dichlorophenol	<0.0418		0.394	0.0418	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Diethyl phthalate	<0.0442		0.394	0.0442	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,4-Dimethylphenol	<0.0525		0.394	0.0525	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Dimethyl phthalate	<0.0406		0.394	0.0406	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Di-n-butyl phthalate	<0.0358		0.394	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
4,6-Dinitro-2-methylphenol	<0.203		2.03	0.203	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,4-Dinitrophenol	<0.991		2.03	0.991	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,4-Dinitrotoluene	<0.0585		0.394	0.0585	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,6-Dinitrotoluene	<0.0501		0.394	0.0501	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Di-n-octyl phthalate	<0.0346		0.394	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Fluoranthene	<0.0382		0.394	0.0382	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Fluorene	<0.0430		0.394	0.0430	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Hexachlorobenzene	<0.0465		0.394	0.0465	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Hexachlorobutadiene	<0.0430		0.394	0.0430	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Hexachlorocyclopentadiene	<0.0489		0.394	0.0489	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Hexachloroethane	<0.0334		0.394	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Indeno[1,2,3-cd]pyrene	<0.0334		0.394	0.0334	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Isophorone	<0.0394		0.394	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2-Methylnaphthalene	<0.0453		0.394	0.0453	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2-Methylphenol	<0.0322		0.394	0.0322	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
3 & 4 Methylphenol	<0.0513		0.394	0.0513	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Naphthalene	<0.0358		0.394	0.0358	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2-Nitroaniline	<0.0537		2.03	0.0537	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
3-Nitroaniline	<0.0549		2.03	0.0549	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
4-Nitroaniline	<0.0585		2.03	0.0585	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Nitrobenzene	<0.0310		0.394	0.0310	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2-Nitrophenol	<0.0489		0.394	0.0489	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1

Client Sample ID: WAP-SS-06 (8)

Lab Sample ID: 680-247829-8

Date Collected: 03/08/24 09:15
Date Received: 03/09/24 09:33

Matrix: Solid
Percent Solids: 79.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.394		2.03	0.394	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
N-Nitrosodi-n-propylamine	<0.0382		0.394	0.0382	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
N-Nitrosodiphenylamine	<0.0394		0.394	0.0394	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Pentachlorophenol	<0.394		2.03	0.394	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Phenanthrene	<0.0322		0.394	0.0322	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Phenol	<0.0406		0.394	0.0406	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Pyrene	<0.0322		0.394	0.0322	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
Pyridine	<0.394		0.788	0.394	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,4,5-Trichlorophenol	<0.0418		0.394	0.0418	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1
2,4,6-Trichlorophenol	<0.0346		0.394	0.0346	mg/Kg	☼	03/13/24 10:00	03/14/24 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*25 - 130*	*03/13/24 10:00*	*03/14/24 07:34*	*1*
2-Fluorophenol (Surr)	*65*		*18 - 130*	*03/13/24 10:00*	*03/14/24 07:34*	*1*
Nitrobenzene-d5 (Surr)	*64*		*19 - 130*	*03/13/24 10:00*	*03/14/24 07:34*	*1*
Phenol-d5 (Surr)	*66*		*21 - 130*	*03/13/24 10:00*	*03/14/24 07:34*	*1*
Terphenyl-d14 (Surr)	*77*		*31 - 133*	*03/13/24 10:00*	*03/14/24 07:34*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*21 - 132*	*03/13/24 10:00*	*03/14/24 07:34*	*1*

Client Sample ID: Trip Blank-20240308b

Lab Sample ID: 680-247829-9

Date Collected: 03/08/24 00:00
Date Received: 03/09/24 09:33

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/11/24 18:20	1
Benzene	<0.270		1.00	0.270	ug/L			03/11/24 18:20	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/11/24 18:20	1
Bromoform	<0.590		1.00	0.590	ug/L			03/11/24 18:20	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/11/24 18:20	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/11/24 18:20	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/11/24 18:20	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/11/24 18:20	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/11/24 18:20	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/11/24 18:20	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/11/24 18:20	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/11/24 18:20	1
Chloroform	<0.270		1.00	0.270	ug/L			03/11/24 18:20	1
Chloromethane	<0.540	*+	1.00	0.540	ug/L			03/11/24 18:20	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/11/24 18:20	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/11/24 18:20	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/11/24 18:20	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/11/24 18:20	1
1,2-Dibromo-3-Chloropropane	<1.80	*-	5.00	1.80	ug/L			03/11/24 18:20	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/11/24 18:20	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 18:20	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 18:20	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 18:20	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/11/24 18:20	1
Dichlorodifluoromethane	<0.360	*+	1.00	0.360	ug/L			03/11/24 18:20	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: Trip Blank-20240308b
Date Collected: 03/08/24 00:00
Date Received: 03/09/24 09:33

Lab Sample ID: 680-247829-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/11/24 18:20	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/11/24 18:20	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/11/24 18:20	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/11/24 18:20	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/11/24 18:20	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/11/24 18:20	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/11/24 18:20	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/11/24 18:20	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/11/24 18:20	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/11/24 18:20	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/11/24 18:20	1
Hexane	<0.650		5.00	0.650	ug/L			03/11/24 18:20	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/11/24 18:20	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/11/24 18:20	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/11/24 18:20	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/11/24 18:20	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/11/24 18:20	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/11/24 18:20	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/11/24 18:20	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/11/24 18:20	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/11/24 18:20	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/11/24 18:20	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/11/24 18:20	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/11/24 18:20	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/11/24 18:20	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/11/24 18:20	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/11/24 18:20	1
Styrene	<0.270		1.00	0.270	ug/L			03/11/24 18:20	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 18:20	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/11/24 18:20	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/11/24 18:20	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/11/24 18:20	1
Toluene	<0.250		1.00	0.250	ug/L			03/11/24 18:20	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/11/24 18:20	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/11/24 18:20	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/11/24 18:20	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/11/24 18:20	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/11/24 18:20	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/11/24 18:20	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/11/24 18:20	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/11/24 18:20	1
Trichlorofluoromethane	<0.330	*+	1.00	0.330	ug/L			03/11/24 18:20	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/11/24 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/11/24 18:20	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 18:20	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/11/24 18:20	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/11/24 18:20	1
Vinyl chloride	<0.400	*+	1.00	0.400	ug/L			03/11/24 18:20	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/11/24 18:20	1

Client: Terracon Consultants, Inc.
Job ID: 680-247829-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: Trip Blank-20240308b
Lab Sample ID: 680-247829-9
Date Collected: 03/08/24 00:00
Matrix: Water
Date Received: 03/09/24 09:33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130		03/11/24 18:20	1
Dibromofluoromethane (Surr)	101		70 - 130		03/11/24 18:20	1
1,2-Dichloroethane-d4 (Surr)	87		60 - 124		03/11/24 18:20	1
Toluene-d8 (Surr)	93		70 - 130		03/11/24 18:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-826833/10
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/11/24 13:17	1
Benzene	<0.270		1.00	0.270	ug/L			03/11/24 13:17	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/11/24 13:17	1
Bromoform	<0.590		1.00	0.590	ug/L			03/11/24 13:17	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/11/24 13:17	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/11/24 13:17	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/11/24 13:17	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/11/24 13:17	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/11/24 13:17	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/11/24 13:17	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/11/24 13:17	1
Chloroform	<0.270		1.00	0.270	ug/L			03/11/24 13:17	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/11/24 13:17	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/11/24 13:17	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/11/24 13:17	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/11/24 13:17	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/11/24 13:17	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 13:17	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 13:17	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/11/24 13:17	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/11/24 13:17	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/11/24 13:17	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/11/24 13:17	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/11/24 13:17	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/11/24 13:17	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/11/24 13:17	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/11/24 13:17	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/11/24 13:17	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/11/24 13:17	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/11/24 13:17	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/11/24 13:17	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/11/24 13:17	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/11/24 13:17	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/11/24 13:17	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/11/24 13:17	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/11/24 13:17	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/11/24 13:17	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/11/24 13:17	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/11/24 13:17	1
Styrene	<0.270		1.00	0.270	ug/L			03/11/24 13:17	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 13:17	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-826833/10
Matrix: Water
Analysis Batch: 826833

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			03/11/24 13:17	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/11/24 13:17	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/11/24 13:17	1
Toluene	<0.250		1.00	0.250	ug/L			03/11/24 13:17	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/11/24 13:17	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/11/24 13:17	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/11/24 13:17	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/11/24 13:17	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/11/24 13:17	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/11/24 13:17	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/11/24 13:17	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/11/24 13:17	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/11/24 13:17	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/11/24 13:17	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/11/24 13:17	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/11/24 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/11/24 13:17	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/11/24 13:17	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/11/24 13:17	1
Hexane	<0.650		5.00	0.650	ug/L			03/11/24 13:17	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/11/24 13:17	1
n-Heptane	<0.430		1.00	0.430	ug/L			03/11/24 13:17	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/11/24 13:17	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/11/24 13:17	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/11/24 13:17	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/11/24 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/11/24 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*03/11/24 13:17*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/11/24 13:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/11/24 13:17*	*1*

Lab Sample ID: LCS 680-826833/6
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	199.1		ug/L		80	67 - 120
Benzene	50.0	52.82		ug/L		106	70 - 130
Bromobenzene	50.0	56.93		ug/L		114	70 - 130
Bromoform	50.0	40.11		ug/L		80	69 - 129
Bromomethane	50.0	64.30		ug/L		129	28 - 192
2-Butanone (MEK)	250	174.6		ug/L		70	69 - 120
Chlorobromomethane	50.0	51.77		ug/L		104	70 - 130
Carbon disulfide	50.0	60.59		ug/L		121	70 - 130
Carbon tetrachloride	50.0	40.84		ug/L		82	70 - 130
Chlorobenzene	50.0	53.01		ug/L		106	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-826833/6
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	68.78		ug/L		138	31 - 213
Chloroform	50.0	47.64		ug/L		95	70 - 130
Chloromethane	50.0	65.65	*+	ug/L		131	59 - 127
2-Chlorotoluene	50.0	59.13		ug/L		118	70 - 130
4-Chlorotoluene	50.0	59.51		ug/L		119	70 - 130
Chlorodibromomethane	50.0	45.82		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	28.06	*-	ug/L		56	70 - 130
Dibromomethane	50.0	46.95		ug/L		94	70 - 130
1,2-Dichlorobenzene	50.0	50.53		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	54.25		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	53.48		ug/L		107	70 - 130
Dichlorobromomethane	50.0	43.70		ug/L		87	70 - 130
Dichlorodifluoromethane	50.0	73.04	*+	ug/L		146	70 - 130
1,1-Dichloroethane	50.0	53.55		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	42.40		ug/L		85	70 - 130
cis-1,2-Dichloroethene	50.0	50.54		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	58.38		ug/L		117	70 - 130
1,2-Dichloropropane	50.0	52.52		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	51.75		ug/L		104	70 - 130
2,2-Dichloropropane	50.0	47.06		ug/L		94	70 - 130
1,1-Dichloropropene	50.0	54.35		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	50.24		ug/L		100	70 - 130
Ethylene Dibromide	50.0	51.13		ug/L		102	70 - 130
Ethylbenzene	50.0	52.18		ug/L		104	70 - 130
Hexachlorobutadiene	50.0	50.60		ug/L		101	70 - 130
2-Hexanone	250	182.3		ug/L		73	70 - 130
Iodomethane	50.0	58.46		ug/L		117	52 - 129
Isopropylbenzene	50.0	54.15		ug/L		108	70 - 130
4-Isopropyltoluene	50.0	56.73		ug/L		113	70 - 130
Methylene Chloride	50.0	51.04		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	250	198.9		ug/L		80	68 - 120
Methyl tert-butyl ether	50.0	40.16		ug/L		80	70 - 130
Naphthalene	50.0	40.52		ug/L		81	57 - 149
n-Butylbenzene	50.0	55.91		ug/L		112	70 - 130
N-Propylbenzene	50.0	56.23		ug/L		112	70 - 130
sec-Butylbenzene	50.0	55.64		ug/L		111	70 - 130
Styrene	50.0	59.46		ug/L		119	70 - 130
tert-Butylbenzene	50.0	55.76		ug/L		112	70 - 130
1,1,1,2-Tetrachloroethane	50.0	45.81		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.39		ug/L		87	70 - 130
Tetrachloroethene	50.0	49.02		ug/L		98	70 - 130
Toluene	50.0	51.06		ug/L		102	70 - 130
trans-1,4-Dichloro-2-butene	50.0	35.05		ug/L		70	67 - 120
trans-1,2-Dichloroethene	50.0	53.76		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	48.00		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	50.0	45.60		ug/L		91	61 - 141
1,2,4-Trichlorobenzene	50.0	48.10		ug/L		96	70 - 130
1,1,1-Trichloroethane	50.0	43.64		ug/L		87	70 - 130
o-Xylene	50.0	53.47		ug/L		107	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-826833/6
Matrix: Water
Analysis Batch: 826833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	50.0	52.73		ug/L		105	70 - 130
m-Xylene & p-Xylene	50.0	53.18		ug/L		106	70 - 130
Trichloroethene	50.0	50.43		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	87.76	*+	ug/L		176	63 - 142
1,2,3-Trichloropropane	50.0	43.19		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.23		ug/L		98	63 - 141
1,2,4-Trimethylbenzene	50.0	57.69		ug/L		115	70 - 130
Hexane	50.0	59.67		ug/L		119	70 - 130
1,3,5-Trimethylbenzene	50.0	58.52		ug/L		117	70 - 130
n-Heptane	50.0	58.53		ug/L		117	65 - 120
Vinyl acetate	100	72.58		ug/L		73	67 - 135
Vinyl chloride	50.0	71.67	*+	ug/L		143	66 - 129
Xylenes, Total	100	106.7		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-826833/7
Matrix: Water
Analysis Batch: 826833

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
Acetone	250	206.1		ug/L		82	67 - 120	3	30
Benzene	50.0	52.86		ug/L		106	70 - 130	0	30
Bromobenzene	50.0	58.51		ug/L		117	70 - 130	3	30
Bromoform	50.0	40.83		ug/L		82	69 - 129	2	30
Bromomethane	50.0	62.99		ug/L		126	28 - 192	2	30
2-Butanone (MEK)	250	178.6		ug/L		71	69 - 120	2	30
Chlorobromomethane	50.0	52.65		ug/L		105	70 - 130	2	30
Carbon disulfide	50.0	59.90		ug/L		120	70 - 130	1	30
Carbon tetrachloride	50.0	39.84		ug/L		80	70 - 130	2	30
Chlorobenzene	50.0	52.86		ug/L		106	70 - 130	0	30
Chloroethane	50.0	64.55		ug/L		129	31 - 213	6	30
Chloroform	50.0	47.03		ug/L		94	70 - 130	1	30
Chloromethane	50.0	65.36	*+	ug/L		131	59 - 127	0	30
2-Chlorotoluene	50.0	59.71		ug/L		119	70 - 130	1	30
4-Chlorotoluene	50.0	60.30		ug/L		121	70 - 130	1	30
Chlorodibromomethane	50.0	46.64		ug/L		93	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	28.78	*-	ug/L		58	70 - 130	3	30
Dibromomethane	50.0	47.68		ug/L		95	70 - 130	2	30
1,2-Dichlorobenzene	50.0	50.89		ug/L		102	70 - 130	1	30
1,3-Dichlorobenzene	50.0	54.70		ug/L		109	70 - 130	1	30
1,4-Dichlorobenzene	50.0	53.90		ug/L		108	70 - 130	1	30
Dichlorobromomethane	50.0	43.70		ug/L		87	70 - 130	0	30
Dichlorodifluoromethane	50.0	72.65	*+	ug/L		145	70 - 130	1	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-826833/7
Matrix: Water
Analysis Batch: 826833

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-Dichloroethane	50.0	53.45		ug/L		107	70 - 130	0	30
1,2-Dichloroethane	50.0	43.36		ug/L		87	70 - 130	2	50
cis-1,2-Dichloroethene	50.0	50.95		ug/L		102	70 - 130	1	30
1,1-Dichloroethene	50.0	57.34		ug/L		115	70 - 130	2	20
1,2-Dichloropropane	50.0	52.95		ug/L		106	70 - 130	1	20
1,3-Dichloropropane	50.0	52.87		ug/L		106	70 - 130	2	20
2,2-Dichloropropane	50.0	46.48		ug/L		93	70 - 130	1	20
1,1-Dichloropropene	50.0	52.93		ug/L		106	70 - 130	3	20
cis-1,3-Dichloropropene	50.0	50.28		ug/L		101	70 - 130	0	20
Ethylene Dibromide	50.0	52.29		ug/L		105	70 - 130	2	30
Ethylbenzene	50.0	51.87		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	50.0	49.73		ug/L		99	70 - 130	2	20
2-Hexanone	250	193.9		ug/L		78	70 - 130	6	20
Iodomethane	50.0	58.62		ug/L		117	52 - 129	0	30
Isopropylbenzene	50.0	53.76		ug/L		108	70 - 130	1	30
4-Isopropyltoluene	50.0	56.46		ug/L		113	70 - 130	0	30
Methylene Chloride	50.0	50.66		ug/L		101	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	250	209.9		ug/L		84	68 - 120	5	30
Methyl tert-butyl ether	50.0	41.23		ug/L		82	70 - 130	3	30
Naphthalene	50.0	41.01		ug/L		82	57 - 149	1	30
n-Butylbenzene	50.0	55.09		ug/L		110	70 - 130	1	30
N-Propylbenzene	50.0	56.00		ug/L		112	70 - 130	0	30
sec-Butylbenzene	50.0	56.38		ug/L		113	70 - 130	1	30
Styrene	50.0	59.81		ug/L		120	70 - 130	1	30
tert-Butylbenzene	50.0	55.74		ug/L		111	70 - 130	0	30
1,1,1,2-Tetrachloroethane	50.0	45.92		ug/L		92	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	44.05		ug/L		88	70 - 130	1	30
Tetrachloroethene	50.0	48.25		ug/L		96	70 - 130	2	30
Toluene	50.0	51.08		ug/L		102	70 - 130	0	30
trans-1,4-Dichloro-2-butene	50.0	36.64		ug/L		73	67 - 120	4	30
trans-1,2-Dichloroethene	50.0	53.39		ug/L		107	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	48.90		ug/L		98	70 - 130	2	30
1,2,3-Trichlorobenzene	50.0	46.09		ug/L		92	61 - 141	1	30
1,2,4-Trichlorobenzene	50.0	48.55		ug/L		97	70 - 130	1	30
1,1,1-Trichloroethane	50.0	43.44		ug/L		87	70 - 130	0	30
o-Xylene	50.0	53.51		ug/L		107	70 - 130	0	30
1,1,2-Trichloroethane	50.0	53.56		ug/L		107	70 - 130	2	30
m-Xylene & p-Xylene	50.0	53.13		ug/L		106	70 - 130	0	30
Trichloroethene	50.0	50.46		ug/L		101	70 - 130	0	30
Trichlorofluoromethane	50.0	87.06	*+	ug/L		174	63 - 142	1	30
1,2,3-Trichloropropane	50.0	44.33		ug/L		89	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.61		ug/L		97	63 - 141	1	30
1,2,4-Trimethylbenzene	50.0	58.37		ug/L		117	70 - 130	1	30
Hexane	50.0	59.09		ug/L		118	70 - 130	1	30
1,3,5-Trimethylbenzene	50.0	59.40		ug/L		119	70 - 130	1	30
n-Heptane	50.0	58.14		ug/L		116	65 - 120	1	30
Vinyl acetate	100	71.15		ug/L		71	67 - 135	2	30
Vinyl chloride	50.0	70.89	*+	ug/L		142	66 - 129	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-826833/7
Matrix: Water
Analysis Batch: 826833

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
Xylenes, Total			100	106.6		ug/L		107	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-827726/10
Matrix: Solid
Analysis Batch: 827726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.01451	J	0.0500	0.0110	mg/Kg			03/15/24 13:59	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			03/15/24 13:59	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			03/15/24 13:59	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			03/15/24 13:59	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			03/15/24 13:59	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			03/15/24 13:59	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			03/15/24 13:59	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			03/15/24 13:59	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			03/15/24 13:59	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			03/15/24 13:59	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-827726/10
Matrix: Solid
Analysis Batch: 827726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			03/15/24 13:59	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			03/15/24 13:59	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			03/15/24 13:59	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			03/15/24 13:59	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			03/15/24 13:59	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			03/15/24 13:59	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/15/24 13:59	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			03/15/24 13:59	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			03/15/24 13:59	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			03/15/24 13:59	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			03/15/24 13:59	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			03/15/24 13:59	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			03/15/24 13:59	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			03/15/24 13:59	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			03/15/24 13:59	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			03/15/24 13:59	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			03/15/24 13:59	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			03/15/24 13:59	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			03/15/24 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			03/15/24 13:59	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			03/15/24 13:59	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			03/15/24 13:59	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			03/15/24 13:59	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			03/15/24 13:59	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			03/15/24 13:59	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			03/15/24 13:59	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			03/15/24 13:59	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			03/15/24 13:59	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			03/15/24 13:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*65 - 130*		*03/15/24 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*65 - 130*		*03/15/24 13:59*	*1*
Dibromofluoromethane (Surr)	*120*		*65 - 130*		*03/15/24 13:59*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*		*03/15/24 13:59*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827726/5
Matrix: Solid
Analysis Batch: 827726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2765		mg/Kg		111	10 - 150
Benzene	0.0500	0.05224		mg/Kg		104	70 - 130
Bromobenzene	0.0500	0.04611		mg/Kg		92	70 - 130
Bromoform	0.0500	0.04188		mg/Kg		84	68 - 130
Bromomethane	0.0500	0.06601	*+	mg/Kg		132	70 - 130
2-Butanone (MEK)	0.250	0.2827		mg/Kg		113	40 - 150
Chlorobromomethane	0.0500	0.05313		mg/Kg		106	66 - 130
Carbon disulfide	0.0500	0.05702		mg/Kg		114	70 - 130
Carbon tetrachloride	0.0500	0.05492		mg/Kg		110	70 - 130
Chlorobenzene	0.0500	0.04827		mg/Kg		97	70 - 130
Chloroethane	0.0500	0.05735		mg/Kg		115	70 - 130
Chloroform	0.0500	0.05076		mg/Kg		102	70 - 130
Chloromethane	0.0500	0.05153		mg/Kg		103	70 - 130
2-Chlorotoluene	0.0500	0.04729		mg/Kg		95	70 - 130
4-Chlorotoluene	0.0500	0.04857		mg/Kg		97	70 - 130
Chlorodibromomethane	0.0500	0.04767		mg/Kg		95	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04156		mg/Kg		83	42 - 145
Dibromomethane	0.0500	0.05161		mg/Kg		103	59 - 142
1,2-Dichlorobenzene	0.0500	0.04899		mg/Kg		98	70 - 130
1,3-Dichlorobenzene	0.0500	0.04979		mg/Kg		100	70 - 130
1,4-Dichlorobenzene	0.0500	0.04992		mg/Kg		100	70 - 130
Dichlorobromomethane	0.0500	0.04975		mg/Kg		100	70 - 130
Dichlorodifluoromethane	0.0500	0.05821		mg/Kg		116	43 - 131
1,1-Dichloroethane	0.0500	0.05321		mg/Kg		106	70 - 130
1,2-Dichloroethane	0.0500	0.05586		mg/Kg		112	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04860		mg/Kg		97	70 - 130
1,1-Dichloroethene	0.0500	0.05422		mg/Kg		108	69 - 130
1,2-Dichloropropane	0.0500	0.05033		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0500	0.05031		mg/Kg		101	54 - 150
2,2-Dichloropropane	0.0500	0.05500		mg/Kg		110	70 - 130
1,1-Dichloropropene	0.0500	0.05221		mg/Kg		104	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04910		mg/Kg		98	70 - 130
Ethylene Dibromide	0.0500	0.04843		mg/Kg		97	48 - 150
Ethylbenzene	0.0500	0.05015		mg/Kg		100	70 - 130
Hexachlorobutadiene	0.0500	0.04888		mg/Kg		98	70 - 130
2-Hexanone	0.250	0.2695		mg/Kg		108	30 - 150
Iodomethane	0.0500	0.05837		mg/Kg		117	65 - 138
Isopropylbenzene	0.0500	0.05061		mg/Kg		101	70 - 130
4-Isopropyltoluene	0.0500	0.05370		mg/Kg		107	70 - 130
Methylene Chloride	0.0500	0.05377		mg/Kg		108	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2648		mg/Kg		106	34 - 150
Methyl tert-butyl ether	0.0500	0.05089		mg/Kg		102	70 - 130
Naphthalene	0.0500	0.04254		mg/Kg		85	46 - 150
n-Butylbenzene	0.0500	0.05521		mg/Kg		110	70 - 130
N-Propylbenzene	0.0500	0.05036		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0500	0.05168		mg/Kg		103	69 - 142
Styrene	0.0500	0.04820		mg/Kg		96	70 - 130
tert-Butylbenzene	0.0500	0.05050		mg/Kg		101	67 - 145

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-827726/5
Matrix: Solid
Analysis Batch: 827726

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	0.0500	0.04476		mg/Kg		90	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04932		mg/Kg		99	64 - 130
Tetrachloroethene	0.0500	0.04872		mg/Kg		97	70 - 130
Toluene	0.0500	0.04945		mg/Kg		99	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04834		mg/Kg		97	54 - 150
trans-1,2-Dichloroethene	0.0500	0.04669		mg/Kg		93	67 - 130
trans-1,3-Dichloropropene	0.0500	0.05082		mg/Kg		102	54 - 150
1,2,3-Trichlorobenzene	0.0500	0.04471		mg/Kg		89	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04412		mg/Kg		88	70 - 130
1,1,1-Trichloroethane	0.0500	0.05497		mg/Kg		110	70 - 130
o-Xylene	0.0500	0.04991		mg/Kg		100	70 - 130
1,1,2-Trichloroethane	0.0500	0.04961		mg/Kg		99	56 - 146
m-Xylene & p-Xylene	0.0500	0.04813		mg/Kg		96	70 - 130
Trichloroethene	0.0500	0.04553		mg/Kg		91	70 - 130
Trichlorofluoromethane	0.0500	0.05544		mg/Kg		111	70 - 130
1,2,3-Trichloropropane	0.0500	0.04817		mg/Kg		96	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05321		mg/Kg		106	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05110		mg/Kg		102	70 - 130
Hexane	0.0500	0.05387		mg/Kg		108	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05112		mg/Kg		102	70 - 130
n-Heptane	0.0500	0.05363		mg/Kg		107	70 - 130
Vinyl acetate	0.100	0.1388		mg/Kg		139	53 - 150
Vinyl chloride	0.0500	0.05226		mg/Kg		105	70 - 130
Xylenes, Total	0.100	0.09804		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*102*		*65 - 130*

Lab Sample ID: LCSD 680-827726/6
Matrix: Solid
Analysis Batch: 827726

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
Acetone	0.250	0.2911		mg/Kg		116	10 - 150	5	50
Benzene	0.0500	0.05505		mg/Kg		110	70 - 130	5	30
Bromobenzene	0.0500	0.05343		mg/Kg		107	70 - 130	15	30
Bromoform	0.0500	0.04653		mg/Kg		93	68 - 130	11	30
Bromomethane	0.0500	0.06373		mg/Kg		127	70 - 130	4	30
2-Butanone (MEK)	0.250	0.2920		mg/Kg		117	40 - 150	3	30
Chlorobromomethane	0.0500	0.05469		mg/Kg		109	66 - 130	3	30
Carbon disulfide	0.0500	0.05891		mg/Kg		118	70 - 130	3	30
Carbon tetrachloride	0.0500	0.05762		mg/Kg		115	70 - 130	5	30
Chlorobenzene	0.0500	0.05260		mg/Kg		105	70 - 130	9	30
Chloroethane	0.0500	0.05707		mg/Kg		114	70 - 130	0	30
Chloroform	0.0500	0.05344		mg/Kg		107	70 - 130	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827726/6
Matrix: Solid
Analysis Batch: 827726

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
Chloromethane	0.0500	0.04623		mg/Kg		92	70 - 130	11	30
2-Chlorotoluene	0.0500	0.05442		mg/Kg		109	70 - 130	14	30
4-Chlorotoluene	0.0500	0.05444		mg/Kg		109	70 - 130	11	30
Chlorodibromomethane	0.0500	0.05113		mg/Kg		102	64 - 133	7	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04257		mg/Kg		85	42 - 145	2	30
Dibromomethane	0.0500	0.05350		mg/Kg		107	59 - 142	4	30
1,2-Dichlorobenzene	0.0500	0.05273		mg/Kg		105	70 - 130	7	30
1,3-Dichlorobenzene	0.0500	0.05331		mg/Kg		107	70 - 130	7	30
1,4-Dichlorobenzene	0.0500	0.05366		mg/Kg		107	70 - 130	7	30
Dichlorobromomethane	0.0500	0.05304		mg/Kg		106	70 - 130	6	30
Dichlorodifluoromethane	0.0500	0.05784		mg/Kg		116	43 - 131	1	30
1,1-Dichloroethane	0.0500	0.05571		mg/Kg		111	70 - 130	5	30
1,2-Dichloroethane	0.0500	0.05674		mg/Kg		113	68 - 139	2	30
cis-1,2-Dichloroethene	0.0500	0.05154		mg/Kg		103	70 - 130	6	30
1,1-Dichloroethene	0.0500	0.05683		mg/Kg		114	69 - 130	5	50
1,2-Dichloropropane	0.0500	0.05274		mg/Kg		105	70 - 130	5	30
1,3-Dichloropropane	0.0500	0.05313		mg/Kg		106	54 - 150	5	30
2,2-Dichloropropane	0.0500	0.05686		mg/Kg		114	70 - 130	3	30
1,1-Dichloropropene	0.0500	0.05417		mg/Kg		108	70 - 130	4	30
cis-1,3-Dichloropropene	0.0500	0.05277		mg/Kg		106	70 - 130	7	30
Ethylene Dibromide	0.0500	0.05271		mg/Kg		105	48 - 150	8	30
Ethylbenzene	0.0500	0.05396		mg/Kg		108	70 - 130	7	30
Hexachlorobutadiene	0.0500	0.05369		mg/Kg		107	70 - 130	9	30
2-Hexanone	0.250	0.2752		mg/Kg		110	30 - 150	2	30
Iodomethane	0.0500	0.06352		mg/Kg		127	65 - 138	8	30
Isopropylbenzene	0.0500	0.05570		mg/Kg		111	70 - 130	10	30
4-Isopropyltoluene	0.0500	0.05745		mg/Kg		115	70 - 130	7	30
Methylene Chloride	0.0500	0.05552		mg/Kg		111	54 - 149	3	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2699		mg/Kg		108	34 - 150	2	30
Methyl tert-butyl ether	0.0500	0.05422		mg/Kg		108	70 - 130	6	30
Naphthalene	0.0500	0.04469		mg/Kg		89	46 - 150	5	30
n-Butylbenzene	0.0500	0.05978		mg/Kg		120	70 - 130	8	30
N-Propylbenzene	0.0500	0.05546		mg/Kg		111	70 - 130	10	30
sec-Butylbenzene	0.0500	0.05700		mg/Kg		114	69 - 142	10	30
Styrene	0.0500	0.05427		mg/Kg		109	70 - 130	12	30
tert-Butylbenzene	0.0500	0.05560		mg/Kg		111	67 - 145	10	30
1,1,1,2-Tetrachloroethane	0.0500	0.05021		mg/Kg		100	70 - 130	11	30
1,1,2,2-Tetrachloroethane	0.0500	0.05109		mg/Kg		102	64 - 130	4	30
Tetrachloroethene	0.0500	0.05274		mg/Kg		105	70 - 130	8	30
Toluene	0.0500	0.05315		mg/Kg		106	70 - 130	7	30
trans-1,4-Dichloro-2-butene	0.0500	0.05095		mg/Kg		102	54 - 150	5	30
trans-1,2-Dichloroethene	0.0500	0.04859		mg/Kg		97	67 - 130	4	30
trans-1,3-Dichloropropene	0.0500	0.05358		mg/Kg		107	54 - 150	5	30
1,2,3-Trichlorobenzene	0.0500	0.04878		mg/Kg		98	70 - 130	9	30
1,2,4-Trichlorobenzene	0.0500	0.04898		mg/Kg		98	70 - 130	10	30
1,1,1-Trichloroethane	0.0500	0.05708		mg/Kg		114	70 - 130	4	30
o-Xylene	0.0500	0.05481		mg/Kg		110	70 - 130	9	30
1,1,2-Trichloroethane	0.0500	0.05285		mg/Kg		106	56 - 146	6	30
m-Xylene & p-Xylene	0.0500	0.05461		mg/Kg		109	70 - 130	13	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-827726/6
Matrix: Solid
Analysis Batch: 827726

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
Trichloroethene			0.0500	0.05068		mg/Kg		101	70 - 130	11	30
Trichlorofluoromethane			0.0500	0.05687		mg/Kg		114	70 - 130	3	30
1,2,3-Trichloropropane			0.0500	0.04925		mg/Kg		98	64 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05603		mg/Kg		112	70 - 130	5	40
1,2,4-Trimethylbenzene			0.0500	0.05694		mg/Kg		114	70 - 130	11	30
Hexane			0.0500	0.05651		mg/Kg		113	70 - 130	5	30
1,3,5-Trimethylbenzene			0.0500	0.05735		mg/Kg		115	70 - 130	11	30
n-Heptane			0.0500	0.05555		mg/Kg		111	70 - 130	4	30
Vinyl acetate			0.100	0.1396		mg/Kg		140	53 - 150	1	30
Vinyl chloride			0.0500	0.05218		mg/Kg		104	70 - 130	0	30
Xylenes, Total			0.100	0.1094		mg/Kg		109	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 130*
Dibromofluoromethane (Surr)	*103*		*65 - 130*
4-Bromofluorobenzene (Surr)	*104*		*65 - 130*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-827235/21-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0400		0.322	0.0400	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Acenaphthylene	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Acetophenone	<0.0273		0.322	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Anthracene	<0.0244		0.322	0.0244	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Atrazine	<0.0225		0.322	0.0225	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzaldehyde	<0.0566		0.322	0.0566	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[a]anthracene	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[a]pyrene	<0.0508		0.322	0.0508	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[b]fluoranthene	<0.0371		0.322	0.0371	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[g,h,i]perylene	<0.0215		0.322	0.0215	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Benzo[k]fluoranthene	<0.0635		0.322	0.0635	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
1,1'-Biphenyl	<1.66		1.66	1.66	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Bis(2-chloroethoxy)methane	<0.0381		0.322	0.0381	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Bis(2-chloroethyl)ether	<0.0439		0.322	0.0439	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
bis (2-chloroisopropyl) ether	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Bis(2-ethylhexyl) phthalate	<0.0283		0.322	0.0283	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Bromophenyl phenyl ether	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Butyl benzyl phthalate	<0.0254		0.322	0.0254	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Caprolactam	<0.0645		0.322	0.0645	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Carbazole	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Chloroaniline	<0.0508		0.645	0.0508	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Chloro-3-methylphenol	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Chloronaphthalene	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-827235/21-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0391		0.322	0.0391	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Chlorophenyl phenyl ether	<0.0430		0.322	0.0430	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Chrysene	<0.0205		0.322	0.0205	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Dibenz(a,h)anthracene	<0.0381		0.322	0.0381	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Dibenzofuran	<0.0322		0.322	0.0322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
3,3'-Dichlorobenzidine	<0.0273		0.645	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Diethyl phthalate	<0.0361		0.322	0.0361	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dimethylphenol	<0.0430		0.322	0.0430	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Dimethyl phthalate	<0.0332		0.322	0.0332	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Di-n-butyl phthalate	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4,6-Dinitro-2-methylphenol	<0.166		1.66	0.166	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dinitrophenol	<0.811		1.66	0.811	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4-Dinitrotoluene	<0.0479		0.322	0.0479	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,6-Dinitrotoluene	<0.0410		0.322	0.0410	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Di-n-octyl phthalate	<0.0283		0.322	0.0283	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Fluoranthene	<0.0313		0.322	0.0313	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Fluorene	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachlorobenzene	<0.0381		0.322	0.0381	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachlorobutadiene	<0.0352		0.322	0.0352	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachlorocyclopentadiene	<0.0400		0.322	0.0400	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Hexachloroethane	<0.0273		0.322	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Indeno[1,2,3-cd]pyrene	<0.0273		0.322	0.0273	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Isophorone	<0.0322		0.322	0.0322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Methylnaphthalene	<0.0371		0.322	0.0371	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Methylphenol	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
3 & 4 Methylphenol	<0.0420		0.322	0.0420	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Naphthalene	<0.0293		0.322	0.0293	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Nitroaniline	<0.0439		1.66	0.0439	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
3-Nitroaniline	<0.0449		1.66	0.0449	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Nitroaniline	<0.0479		1.66	0.0479	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Nitrobenzene	<0.0254		0.322	0.0254	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2-Nitrophenol	<0.0400		0.322	0.0400	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
4-Nitrophenol	<0.322		1.66	0.322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
N-Nitrosodi-n-propylamine	<0.0313		0.322	0.0313	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
N-Nitrosodiphenylamine	<0.0322		0.322	0.0322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Pentachlorophenol	<0.322		1.66	0.322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Phenanthrene	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Phenol	<0.0332		0.322	0.0332	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Pyrene	<0.0264		0.322	0.0264	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
Pyridine	<0.322		0.645	0.322	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4,5-Trichlorophenol	<0.0342		0.322	0.0342	mg/Kg		03/13/24 10:00	03/13/24 21:32	1
2,4,6-Trichlorophenol	<0.0283		0.322	0.0283	mg/Kg		03/13/24 10:00	03/13/24 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*25 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
2-Fluorophenol (Surr)	*68*		*18 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
Nitrobenzene-d5 (Surr)	*63*		*19 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-827235/21-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827235

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*67*		*21 - 130*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
Terphenyl-d14 (Surr)	*73*		*31 - 133*	*03/13/24 10:00*	*03/13/24 21:32*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*21 - 132*	*03/13/24 10:00*	*03/13/24 21:32*	*1*

Lab Sample ID: LCS 680-827235/22-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	6.56	4.981		mg/Kg		76	33 - 130
Acenaphthylene	6.56	4.762		mg/Kg		73	34 - 130
Acetophenone	6.56	4.751		mg/Kg		72	28 - 130
Anthracene	6.56	5.558		mg/Kg		85	39 - 130
Atrazine	6.56	5.338		mg/Kg		81	27 - 130
Benzaldehyde	6.56	3.594		mg/Kg		55	10 - 130
Benzo[a]anthracene	6.56	5.513		mg/Kg		84	40 - 130
Benzo[a]pyrene	6.56	5.607		mg/Kg		85	37 - 131
Benzo[b]fluoranthene	6.56	5.803		mg/Kg		88	35 - 130
Benzo[g,h,i]perylene	6.56	5.682		mg/Kg		87	39 - 130
Benzo[k]fluoranthene	6.56	5.862		mg/Kg		89	35 - 130
1,1'-Biphenyl	6.56	4.829		mg/Kg		74	32 - 130
Bis(2-chloroethoxy)methane	6.56	4.535		mg/Kg		69	29 - 130
Bis(2-chloroethyl)ether	6.56	4.914		mg/Kg		75	18 - 130
bis (2-chloroisopropyl) ether	6.56	5.028		mg/Kg		77	12 - 130
Bis(2-ethylhexyl) phthalate	6.56	5.129		mg/Kg		78	39 - 130
4-Bromophenyl phenyl ether	6.56	4.860		mg/Kg		74	32 - 130
Butyl benzyl phthalate	6.56	5.255		mg/Kg		80	38 - 130
Caprolactam	6.56	4.684		mg/Kg		71	27 - 148
Carbazole	6.56	5.472		mg/Kg		83	43 - 130
4-Chloroaniline	6.56	4.387		mg/Kg		67	10 - 130
4-Chloro-3-methylphenol	6.56	5.272		mg/Kg		80	31 - 130
2-Chloronaphthalene	6.56	4.790		mg/Kg		73	30 - 130
2-Chlorophenol	6.56	4.911		mg/Kg		75	28 - 130
4-Chlorophenyl phenyl ether	6.56	4.614		mg/Kg		70	32 - 130
Chrysene	6.56	5.677		mg/Kg		87	40 - 130
Dibenz(a,h)anthracene	6.56	5.784		mg/Kg		88	37 - 130
Dibenzofuran	6.56	4.674		mg/Kg		71	34 - 130
3,3'-Dichlorobenzidine	6.56	4.154		mg/Kg		63	10 - 130
2,4-Dichlorophenol	6.56	4.770		mg/Kg		73	30 - 130
Diethyl phthalate	6.56	5.488		mg/Kg		84	36 - 130
2,4-Dimethylphenol	6.56	4.490		mg/Kg		68	34 - 130
Dimethyl phthalate	6.56	5.147		mg/Kg		78	36 - 130
Di-n-butyl phthalate	6.56	5.517		mg/Kg		84	39 - 130
4,6-Dinitro-2-methylphenol	13.1	10.39		mg/Kg		79	22 - 130
2,4-Dinitrophenol	13.1	7.651		mg/Kg		58	10 - 130
2,4-Dinitrotoluene	6.56	5.368		mg/Kg		82	34 - 130
2,6-Dinitrotoluene	6.56	5.037		mg/Kg		77	33 - 130
Di-n-octyl phthalate	6.56	4.983		mg/Kg		76	38 - 131

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-827235/22-A
Matrix: Solid
Analysis Batch: 827410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	6.56	5.222		mg/Kg		80	38 - 130
Fluorene	6.56	4.899		mg/Kg		75	34 - 130
Hexachlorobenzene	6.56	5.194		mg/Kg		79	28 - 130
Hexachlorobutadiene	6.56	4.272		mg/Kg		65	22 - 130
Hexachlorocyclopentadiene	6.56	2.411		mg/Kg		37	11 - 130
Hexachloroethane	6.56	4.628		mg/Kg		71	21 - 130
Indeno[1,2,3-cd]pyrene	6.56	5.180		mg/Kg		79	40 - 130
Isophorone	6.56	4.831		mg/Kg		74	26 - 130
2-Methylnaphthalene	6.56	4.500		mg/Kg		69	28 - 130
2-Methylphenol	6.56	4.866		mg/Kg		74	30 - 130
3 & 4 Methylphenol	6.56	5.022		mg/Kg		77	31 - 130
Naphthalene	6.56	4.628		mg/Kg		71	25 - 130
2-Nitroaniline	6.56	6.012		mg/Kg		92	26 - 130
3-Nitroaniline	6.56	5.205		mg/Kg		79	10 - 130
4-Nitroaniline	6.56	5.679		mg/Kg		87	25 - 130
Nitrobenzene	6.56	4.926		mg/Kg		75	25 - 130
2-Nitrophenol	6.56	4.138		mg/Kg		63	24 - 130
4-Nitrophenol	13.1	13.63		mg/Kg		104	25 - 130
N-Nitrosodi-n-propylamine	6.56	4.742		mg/Kg		72	24 - 130
N-Nitrosodiphenylamine	6.56	5.090		mg/Kg		78	37 - 130
Pentachlorophenol	13.1	11.66		mg/Kg		89	16 - 135
Phenanthrene	6.56	5.546		mg/Kg		85	38 - 130
Phenol	6.56	5.078		mg/Kg		77	27 - 130
Pyrene	6.56	5.276		mg/Kg		80	40 - 130
Pyridine	13.1	4.200		mg/Kg		32	10 - 130
2,4,5-Trichlorophenol	6.56	4.942		mg/Kg		75	33 - 130
2,4,6-Trichlorophenol	6.56	4.732		mg/Kg		72	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*65*		*25 - 130*
2-Fluorophenol (Surr)	*69*		*18 - 130*
Nitrobenzene-d5 (Surr)	*70*		*19 - 130*
Phenol-d5 (Surr)	*73*		*21 - 130*
Terphenyl-d14 (Surr)	*74*		*31 - 133*
2,4,6-Tribromophenol (Surr)	*76*		*21 - 132*

GC/MS VOA

Analysis Batch: 826833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-9	Trip Blank-20240308b	Total/NA	Water	8260D	
MB 680-826833/10	Method Blank	Total/NA	Water	8260D	
LCS 680-826833/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-826833/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Prep Batch: 827051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-1	WAP-SS-03 (4)	Total/NA	Solid	5035A	
680-247829-2	WAP-SS-03 (8)	Total/NA	Solid	5035A	
680-247829-3	WAP-SS-04 (4)	Total/NA	Solid	5035A	
680-247829-4	WAP-SS-04 (8)	Total/NA	Solid	5035A	
680-247829-5	WAP-SS-05 (4)	Total/NA	Solid	5035A	
680-247829-6	WAP-SS-05 (8)	Total/NA	Solid	5035A	
680-247829-7	WAP-SS-06 (4)	Total/NA	Solid	5035A	
680-247829-8	WAP-SS-06 (8)	Total/NA	Solid	5035A	

Analysis Batch: 827726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-1	WAP-SS-03 (4)	Total/NA	Solid	8260D	827051
680-247829-2	WAP-SS-03 (8)	Total/NA	Solid	8260D	827051
680-247829-3	WAP-SS-04 (4)	Total/NA	Solid	8260D	827051
680-247829-4	WAP-SS-04 (8)	Total/NA	Solid	8260D	827051
680-247829-5	WAP-SS-05 (4)	Total/NA	Solid	8260D	827051
680-247829-6	WAP-SS-05 (8)	Total/NA	Solid	8260D	827051
680-247829-7	WAP-SS-06 (4)	Total/NA	Solid	8260D	827051
680-247829-8	WAP-SS-06 (8)	Total/NA	Solid	8260D	827051
MB 680-827726/10	Method Blank	Total/NA	Solid	8260D	
LCS 680-827726/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-827726/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 827235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-1	WAP-SS-03 (4)	Total/NA	Solid	3546	
680-247829-2	WAP-SS-03 (8)	Total/NA	Solid	3546	
680-247829-3	WAP-SS-04 (4)	Total/NA	Solid	3546	
680-247829-4	WAP-SS-04 (8)	Total/NA	Solid	3546	
680-247829-5	WAP-SS-05 (4)	Total/NA	Solid	3546	
680-247829-6	WAP-SS-05 (8)	Total/NA	Solid	3546	
680-247829-7	WAP-SS-06 (4)	Total/NA	Solid	3546	
680-247829-8	WAP-SS-06 (8)	Total/NA	Solid	3546	
MB 680-827235/21-A	Method Blank	Total/NA	Solid	3546	
LCS 680-827235/22-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 827410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-1	WAP-SS-03 (4)	Total/NA	Solid	8270E	827235
680-247829-2	WAP-SS-03 (8)	Total/NA	Solid	8270E	827235
680-247829-3	WAP-SS-04 (4)	Total/NA	Solid	8270E	827235
680-247829-4	WAP-SS-04 (8)	Total/NA	Solid	8270E	827235

GC/MS Semi VOA (Continued)

Analysis Batch: 827410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-5	WAP-SS-05 (4)	Total/NA	Solid	8270E	827235
680-247829-6	WAP-SS-05 (8)	Total/NA	Solid	8270E	827235
680-247829-7	WAP-SS-06 (4)	Total/NA	Solid	8270E	827235
680-247829-8	WAP-SS-06 (8)	Total/NA	Solid	8270E	827235
MB 680-827235/21-A	Method Blank	Total/NA	Solid	8270E	827235
LCS 680-827235/22-A	Lab Control Sample	Total/NA	Solid	8270E	827235

General Chemistry

Analysis Batch: 827139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247829-1	WAP-SS-03 (4)	Total/NA	Solid	Moisture	
680-247829-2	WAP-SS-03 (8)	Total/NA	Solid	Moisture	
680-247829-3	WAP-SS-04 (4)	Total/NA	Solid	Moisture	
680-247829-4	WAP-SS-04 (8)	Total/NA	Solid	Moisture	
680-247829-5	WAP-SS-05 (4)	Total/NA	Solid	Moisture	
680-247829-6	WAP-SS-05 (8)	Total/NA	Solid	Moisture	
680-247829-7	WAP-SS-06 (4)	Total/NA	Solid	Moisture	
680-247829-8	WAP-SS-06 (8)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Client Sample ID: WAP-SS-03 (4)

Lab Sample ID: 680-247829-1

Date Collected: 03/08/24 08:40
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-03 (4)

Lab Sample ID: 680-247829-1

Date Collected: 03/08/24 08:40
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.925 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 17:34	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.60 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 04:31	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-03 (8)

Lab Sample ID: 680-247829-2

Date Collected: 03/08/24 08:45
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-03 (8)

Lab Sample ID: 680-247829-2

Date Collected: 03/08/24 08:45
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.13 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 17:56	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.83 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 04:57	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-04 (4)

Lab Sample ID: 680-247829-3

Date Collected: 03/08/24 08:50
Matrix: Solid
Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-04 (4)

Lab Sample ID: 680-247829-3

Date Collected: 03/08/24 08:50

Matrix: Solid

Date Received: 03/09/24 09:33

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.616 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 18:18	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.61 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 05:23	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-04 (8)

Lab Sample ID: 680-247829-4

Date Collected: 03/08/24 08:55

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-04 (8)

Lab Sample ID: 680-247829-4

Date Collected: 03/08/24 08:55

Matrix: Solid

Date Received: 03/09/24 09:33

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.315 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 18:40	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.54 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 05:49	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-05 (4)

Lab Sample ID: 680-247829-5

Date Collected: 03/08/24 09:00

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-05 (4)

Lab Sample ID: 680-247829-5

Date Collected: 03/08/24 09:00

Matrix: Solid

Date Received: 03/09/24 09:33

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.614 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 19:02	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.53 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 06:16	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-05 (8)

Lab Sample ID: 680-247829-6

Date Collected: 03/08/24 09:05

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-05 (8)

Lab Sample ID: 680-247829-6

Date Collected: 03/08/24 09:05

Matrix: Solid

Date Received: 03/09/24 09:33

Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.147 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 19:24	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.26 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 06:42	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-06 (4)

Lab Sample ID: 680-247829-7

Date Collected: 03/08/24 09:10

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-SS-06 (4)

Lab Sample ID: 680-247829-7

Date Collected: 03/08/24 09:10

Matrix: Solid

Date Received: 03/09/24 09:33

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.837 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 19:45	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.71 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 07:08	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: WAP-SS-06 (8)

Lab Sample ID: 680-247829-8

Date Collected: 03/08/24 09:15

Matrix: Solid

Date Received: 03/09/24 09:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			827139	03/12/24 16:43	KG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-247829-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: WAP-SS-06 (8)
Lab Sample ID: 680-247829-8

Date Collected: 03/08/24 09:15
Matrix: Solid
Date Received: 03/09/24 09:33
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.444 g	5 mL	827051	03/12/24 09:36	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	827726	03/15/24 20:07	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3546			15.82 g	1 mL	827235	03/13/24 10:00	MJ	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	827410	03/14/24 07:34	OK	EET SAV
	Instrument ID: CMSK									

Client Sample ID: Trip Blank-20240308b
Lab Sample ID: 680-247829-9

Date Collected: 03/08/24 00:00
Matrix: Water
Date Received: 03/09/24 09:33

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	826833	03/11/24 18:20	P1C	EET SAV
	Instrument ID: CMSAB									

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: 680-247829-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-247829-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
3546	Microwave Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

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Client Information	Sampler: Les Abbott	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Ethan Dinwiddie	Phone: 919-771-5602	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs - Soil	8260D - VOCs-NC 02L List - Water	1311/8260D - TCLP VOCs	1311/8270E - TCLP SVOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				EF	N	A	N	N		
WAP-SS-03 (4)	3/8/24	8:40	G	S			X	X					
WAP-SS-03 (8)		8:45					X	X					
WAP-SS-04 (4)		8:50					X	X					
WAP-SS-04 (8)		8:55					X	X					
WAP-SS-05 (4)		9:00					X	X					
WAP-SS-05 (8)		9:05					X	X					
WAP-SS-06 (4)		9:10					X	X					
WAP-SS-06 (8)		9:15					X	X					
Trip Blank - 20240308b				W			X						

680-247829 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
Leslie J Abbott	3/8/24 17:00				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/9/24 0933	Company Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.3/2.3

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-247829-1

Login Number: 247829

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 3/31/2024 11:52:34 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-248446-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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3/31/2024 11:52:34 PM

Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248446-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low 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
*-	LCS and/or LCSD is outside acceptance limits, low 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.

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248446-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-248446-1	Frac Tank-01	Water	03/21/24 09:45	03/22/24 10:14

Job Narrative
680-248446-1

Receipt
The samples were received on 3/22/2024 10:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA
Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-830301 recovered outside control limits for the following analyte: Vinyl acetate. These results have been reported and qualified.

Method 8260D: The following sample was diluted due to the abundance of non-target analytes: Frac Tank-01 (680-248446-1). 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 formed emulsions during the extraction procedure: Frac Tank-01 (680-248446-1). The emulsions were broken up using sodium sulfate.

Method 8270E: The laboratory control sample (LCS) for preparation batch 680-829813 and analytical batch 680-829956 recovered outside control limits for the following analyte(s): Caprolactam and Pyridine. These analytes have been identified as poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E: Surrogate recovery for the following sample was outside control limits: Frac Tank-01 (680-248446-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
Method 8015C_GRO: Surrogate recovery for the following sample was outside control limits: Frac Tank-01 (680-248446-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015C_DRO: The extraction volume used was deviated from the SOP: only 100 mL used due to the sample matrix and appearance, diluted with 150 mL of DI water.

Method 8015C_DRO: The method blank for preparation batch 680-829713 and analytical batch 680-829882 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction of the samples was not performed.

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.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248446-1

Client Sample ID: Frac Tank-01
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 10:14

Lab Sample ID: 680-248446-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<92.5		250	92.5	ug/L			03/29/24 22:06	25
Benzene	<6.75		25.0	6.75	ug/L			03/29/24 22:06	25
Bromobenzene	<6.00		25.0	6.00	ug/L			03/29/24 22:06	25
Bromoform	<14.8		25.0	14.8	ug/L			03/29/24 22:06	25
Bromomethane	<92.5		125	92.5	ug/L			03/29/24 22:06	25
2-Butanone (MEK)	<160		250	160	ug/L			03/29/24 22:06	25
Carbon disulfide	<10.8		50.0	10.8	ug/L			03/29/24 22:06	25
Carbon tetrachloride	<7.50		25.0	7.50	ug/L			03/29/24 22:06	25
Chlorobenzene	<3.75		25.0	3.75	ug/L			03/29/24 22:06	25
Chlorobromomethane	<8.50		25.0	8.50	ug/L			03/29/24 22:06	25
Chlorodibromomethane	<9.75		25.0	9.75	ug/L			03/29/24 22:06	25
Chloroethane	<115		125	115	ug/L			03/29/24 22:06	25
Chloroform	<6.75		25.0	6.75	ug/L			03/29/24 22:06	25
Chloromethane	<13.5		25.0	13.5	ug/L			03/29/24 22:06	25
2-Chlorotoluene	<6.25		25.0	6.25	ug/L			03/29/24 22:06	25
4-Chlorotoluene	<10.3		25.0	10.3	ug/L			03/29/24 22:06	25
cis-1,2-Dichloroethene	**26.2**		25.0	6.25	ug/L			03/29/24 22:06	25
cis-1,3-Dichloropropene	<6.50		25.0	6.50	ug/L			03/29/24 22:06	25
1,2-Dibromo-3-Chloropropane	<45.0		125	45.0	ug/L			03/29/24 22:06	25
Dibromomethane	<8.50		25.0	8.50	ug/L			03/29/24 22:06	25
1,2-Dichlorobenzene	<7.75		25.0	7.75	ug/L			03/29/24 22:06	25
1,3-Dichlorobenzene	<7.75		25.0	7.75	ug/L			03/29/24 22:06	25
1,4-Dichlorobenzene	<7.75		25.0	7.75	ug/L			03/29/24 22:06	25
Dichlorobromomethane	<6.25		25.0	6.25	ug/L			03/29/24 22:06	25
Dichlorodifluoromethane	<9.00		25.0	9.00	ug/L			03/29/24 22:06	25
1,1-Dichloroethane	<8.25		25.0	8.25	ug/L			03/29/24 22:06	25
1,2-Dichloroethane	<6.25		25.0	6.25	ug/L			03/29/24 22:06	25
1,1-Dichloroethene	<8.25		25.0	8.25	ug/L			03/29/24 22:06	25
1,2-Dichloropropane	<5.50		25.0	5.50	ug/L			03/29/24 22:06	25
1,3-Dichloropropane	<9.00		25.0	9.00	ug/L			03/29/24 22:06	25
2,2-Dichloropropane	<8.75		25.0	8.75	ug/L			03/29/24 22:06	25
1,1-Dichloropropene	<7.00		25.0	7.00	ug/L			03/29/24 22:06	25
Ethyl acetate	<125		250	125	ug/L			03/29/24 22:06	25
Ethylbenzene	<5.00		25.0	5.00	ug/L			03/29/24 22:06	25
Ethylene Dibromide	<8.25		25.0	8.25	ug/L			03/29/24 22:06	25
Hexachlorobutadiene	<5.50		125	5.50	ug/L			03/29/24 22:06	25
Hexane	<16.3		125	16.3	ug/L			03/29/24 22:06	25
2-Hexanone	<80.0		250	80.0	ug/L			03/29/24 22:06	25
Iodomethane	<97.5		250	97.5	ug/L			03/29/24 22:06	25
Isopropylbenzene	<6.50		25.0	6.50	ug/L			03/29/24 22:06	25
Isopropyl ether	<17.5		250	17.5	ug/L			03/29/24 22:06	25
4-Isopropyltoluene	<11.0		25.0	11.0	ug/L			03/29/24 22:06	25
Methylene Chloride	<80.0		125	80.0	ug/L			03/29/24 22:06	25
4-Methyl-2-pentanone (MIBK)	<67.5		250	67.5	ug/L			03/29/24 22:06	25
Methyl tert-butyl ether	<20.3		125	20.3	ug/L			03/29/24 22:06	25
m-Xylene & p-Xylene	<12.3		25.0	12.3	ug/L			03/29/24 22:06	25
Naphthalene	<60.0		125	60.0	ug/L			03/29/24 22:06	25
n-Butylbenzene	<13.0		25.0	13.0	ug/L			03/29/24 22:06	25
n-Heptane	<10.8		25.0	10.8	ug/L			03/29/24 22:06	25

Client Sample ID: Frac Tank-01
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 10:14

Lab Sample ID: 680-248446-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<10.3		25.0	10.3	ug/L			03/29/24 22:06	25
o-Xylene	<6.50		25.0	6.50	ug/L			03/29/24 22:06	25
sec-Butylbenzene	<13.3		25.0	13.3	ug/L			03/29/24 22:06	25
Styrene	<6.75		25.0	6.75	ug/L			03/29/24 22:06	25
tert-Butylbenzene	<10.8		25.0	10.8	ug/L			03/29/24 22:06	25
1,1,1,2-Tetrachloroethane	<9.00		25.0	9.00	ug/L			03/29/24 22:06	25
1,1,2,2-Tetrachloroethane	<10.0		25.0	10.0	ug/L			03/29/24 22:06	25
Tetrachloroethene	**10.9**	**J**	25.0	8.75	ug/L			03/29/24 22:06	25
Toluene	<6.25		25.0	6.25	ug/L			03/29/24 22:06	25
trans-1,4-Dichloro-2-butene	<31.3		50.0	31.3	ug/L			03/29/24 22:06	25
trans-1,2-Dichloroethene	<8.50		25.0	8.50	ug/L			03/29/24 22:06	25
trans-1,3-Dichloropropene	<5.75		25.0	5.75	ug/L			03/29/24 22:06	25
1,2,3-Trichlorobenzene	<20.3		125	20.3	ug/L			03/29/24 22:06	25
1,2,4-Trichlorobenzene	<13.3		125	13.3	ug/L			03/29/24 22:06	25
1,1,1-Trichloroethane	<5.25		25.0	5.25	ug/L			03/29/24 22:06	25
1,1,2-Trichloroethane	<8.00		25.0	8.00	ug/L			03/29/24 22:06	25
Trichloroethene	**1790**		25.0	5.00	ug/L			03/29/24 22:06	25
Trichlorofluoromethane	<8.25		25.0	8.25	ug/L			03/29/24 22:06	25
1,2,3-Trichloropropane	<12.0		25.0	12.0	ug/L			03/29/24 22:06	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.75		25.0	5.75	ug/L			03/29/24 22:06	25
1,2,4-Trimethylbenzene	<10.8		25.0	10.8	ug/L			03/29/24 22:06	25
1,3,5-Trimethylbenzene	<7.00		25.0	7.00	ug/L			03/29/24 22:06	25
Vinyl acetate	<17.3		50.0	17.3	ug/L			03/29/24 22:06	25
Vinyl chloride	<10.0		25.0	10.0	ug/L			03/29/24 22:06	25
Xylenes, Total	<5.75		25.0	5.75	ug/L			03/29/24 22:06	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*03/29/24 22:06*	*25*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*03/29/24 22:06*	*25*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*03/29/24 22:06*	*25*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/29/24 22:06*	*25*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.48		10.2	4.48	ug/L		03/27/24 06:55	03/27/24 23:54	1
Acenaphthylene	<3.67		10.2	3.67	ug/L		03/27/24 06:55	03/27/24 23:54	1
Acetophenone	<2.24		10.2	2.24	ug/L		03/27/24 06:55	03/27/24 23:54	1
Anthracene	<3.67		10.2	3.67	ug/L		03/27/24 06:55	03/27/24 23:54	1
Atrazine	<2.24		10.2	2.24	ug/L		03/27/24 06:55	03/27/24 23:54	1
Benzaldehyde	<4.89		10.2	4.89	ug/L		03/27/24 06:55	03/27/24 23:54	1
Benzo[a]anthracene	<4.28		10.2	4.28	ug/L		03/27/24 06:55	03/27/24 23:54	1
Benzo[a]pyrene	<2.85		10.2	2.85	ug/L		03/27/24 06:55	03/27/24 23:54	1
Benzo[b]fluoranthene	<3.16		10.2	3.16	ug/L		03/27/24 06:55	03/27/24 23:54	1
Benzo[g,h,i]perylene	<3.06		10.2	3.06	ug/L		03/27/24 06:55	03/27/24 23:54	1
Benzo[k]fluoranthene	<2.95		10.2	2.95	ug/L		03/27/24 06:55	03/27/24 23:54	1
1,1'-Biphenyl	<4.69		10.2	4.69	ug/L		03/27/24 06:55	03/27/24 23:54	1
Bis(2-chloroethoxy)methane	<1.83		10.2	1.83	ug/L		03/27/24 06:55	03/27/24 23:54	1
Bis(2-chloroethyl)ether	<3.67		10.2	3.67	ug/L		03/27/24 06:55	03/27/24 23:54	1
bis (2-chloroisopropyl) ether	<3.16		10.2	3.16	ug/L		03/27/24 06:55	03/27/24 23:54	1
Bis(2-ethylhexyl) phthalate	<3.06		10.2	3.06	ug/L		03/27/24 06:55	03/27/24 23:54	1

Client: Terracon Consultants, Inc.
Job ID: 680-248446-1
Project/Site: Tarheel Army Missile Plant

Client Sample ID: Frac Tank-01
Lab Sample ID: 680-248446-1
Date Collected: 03/21/24 09:45
Matrix: Water
Date Received: 03/22/24 10:14

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<4.79		10.2	4.79	ug/L		03/27/24 06:55	03/27/24 23:54	1
Butyl benzyl phthalate	<2.85		10.2	2.85	ug/L		03/27/24 06:55	03/27/24 23:54	1
Caprolactam	<2.85	*-	10.2	2.85	ug/L		03/27/24 06:55	03/27/24 23:54	1
Carbazole	<1.83		10.2	1.83	ug/L		03/27/24 06:55	03/27/24 23:54	1
4-Chloroaniline	<1.02		20.4	1.02	ug/L		03/27/24 06:55	03/27/24 23:54	1
4-Chloro-3-methylphenol	<2.55		10.2	2.55	ug/L		03/27/24 06:55	03/27/24 23:54	1
2-Chloronaphthalene	<4.89		10.2	4.89	ug/L		03/27/24 06:55	03/27/24 23:54	1
2-Chlorophenol	<3.26		10.2	3.26	ug/L		03/27/24 06:55	03/27/24 23:54	1
4-Chlorophenyl phenyl ether	<5.40		10.2	5.40	ug/L		03/27/24 06:55	03/27/24 23:54	1
Chrysene	<3.87		10.2	3.87	ug/L		03/27/24 06:55	03/27/24 23:54	1
Dibenz(a,h)anthracene	<3.06		10.2	3.06	ug/L		03/27/24 06:55	03/27/24 23:54	1
Dibenzofuran	<1.94		10.2	1.94	ug/L		03/27/24 06:55	03/27/24 23:54	1
3,3'-Dichlorobenzidine	<10.2		61.1	10.2	ug/L		03/27/24 06:55	03/27/24 23:54	1
2,4-Dichlorophenol	<3.77		10.2	3.77	ug/L		03/27/24 06:55	03/27/24 23:54	1
Diethyl phthalate	<2.24		10.2	2.24	ug/L		03/27/24 06:55	03/27/24 23:54	1
2,4-Dimethylphenol	<3.06		10.2	3.06	ug/L		03/27/24 06:55	03/27/24 23:54	1
Dimethyl phthalate	<2.14		10.2	2.14	ug/L		03/27/24 06:55	03/27/24 23:54	1
Di-n-butyl phthalate	<2.34		10.2	2.34	ug/L		03/27/24 06:55	03/27/24 23:54	1
4,6-Dinitro-2-methylphenol	<5.40		50.9	5.40	ug/L		03/27/24 06:55	03/27/24 23:54	1
2,4-Dinitrophenol	<16.3		50.9	16.3	ug/L		03/27/24 06:55	03/27/24 23:54	1
2,4-Dinitrotoluene	<2.34		10.2	2.34	ug/L		03/27/24 06:55	03/27/24 23:54	1
2,6-Dinitrotoluene	<2.85		10.2	2.85	ug/L		03/27/24 06:55	03/27/24 23:54	1
Di-n-octyl phthalate	<2.85		10.2	2.85	ug/L		03/27/24 06:55	03/27/24 23:54	1
Fluoranthene	<1.63		10.2	1.63	ug/L		03/27/24 06:55	03/27/24 23:54	1
Fluorene	<3.46		10.2	3.46	ug/L		03/27/24 06:55	03/27/24 23:54	1
Hexachlorobenzene	<1.63		10.2	1.63	ug/L		03/27/24 06:55	03/27/24 23:54	1
Hexachlorobutadiene	<4.07		10.2	4.07	ug/L		03/27/24 06:55	03/27/24 23:54	1
Hexachlorocyclopentadiene	<3.57		10.2	3.57	ug/L		03/27/24 06:55	03/27/24 23:54	1
Hexachloroethane	<3.67		10.2	3.67	ug/L		03/27/24 06:55	03/27/24 23:54	1
Indeno[1,2,3-cd]pyrene	<4.38		10.2	4.38	ug/L		03/27/24 06:55	03/27/24 23:54	1
Isophorone	<2.04		10.2	2.04	ug/L		03/27/24 06:55	03/27/24 23:54	1
2-Methylnaphthalene	<4.69		10.2	4.69	ug/L		03/27/24 06:55	03/27/24 23:54	1
2-Methylphenol	<1.83		10.2	1.83	ug/L		03/27/24 06:55	03/27/24 23:54	1
3 & 4 Methylphenol	<1.43		10.2	1.43	ug/L		03/27/24 06:55	03/27/24 23:54	1
Naphthalene	<3.57		10.2	3.57	ug/L		03/27/24 06:55	03/27/24 23:54	1
2-Nitroaniline	<2.95		50.9	2.95	ug/L		03/27/24 06:55	03/27/24 23:54	1
3-Nitroaniline	<3.06		50.9	3.06	ug/L		03/27/24 06:55	03/27/24 23:54	1
4-Nitroaniline	<3.06		50.9	3.06	ug/L		03/27/24 06:55	03/27/24 23:54	1
Nitrobenzene	<3.57		10.2	3.57	ug/L		03/27/24 06:55	03/27/24 23:54	1
2-Nitrophenol	<3.97		10.2	3.97	ug/L		03/27/24 06:55	03/27/24 23:54	1
4-Nitrophenol	<8.25		50.9	8.25	ug/L		03/27/24 06:55	03/27/24 23:54	1
N-Nitrosodi-n-propylamine	<2.44		10.2	2.44	ug/L		03/27/24 06:55	03/27/24 23:54	1
N-Nitrosodiphenylamine	<2.95		10.2	2.95	ug/L		03/27/24 06:55	03/27/24 23:54	1
Pentachlorophenol	<10.1		50.9	10.1	ug/L		03/27/24 06:55	03/27/24 23:54	1
Phenanthrene	<4.38		10.2	4.38	ug/L		03/27/24 06:55	03/27/24 23:54	1
Phenol	<1.53		10.2	1.53	ug/L		03/27/24 06:55	03/27/24 23:54	1
Pyrene	<3.77		10.2	3.77	ug/L		03/27/24 06:55	03/27/24 23:54	1
Pyridine	<7.54	*-	50.9	7.54	ug/L		03/27/24 06:55	03/27/24 23:54	1
2,4,5-Trichlorophenol	<3.36		10.2	3.36	ug/L		03/27/24 06:55	03/27/24 23:54	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248446-1

Client Sample ID: Frac Tank-01
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 10:14

Lab Sample ID: 680-248446-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<2.24		10.2	2.24	ug/L		03/27/24 06:55	03/27/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*37*		*25 - 130*	*03/27/24 06:55*	*03/27/24 23:54*	*1*
2-Fluorophenol (Surr)	*10*		*10 - 130*	*03/27/24 06:55*	*03/27/24 23:54*	*1*
Nitrobenzene-d5 (Surr)	*25*	*S1-*	*30 - 130*	*03/27/24 06:55*	*03/27/24 23:54*	*1*
Phenol-d5 (Surr)	*9*	*S1-*	*10 - 130*	*03/27/24 06:55*	*03/27/24 23:54*	*1*
Terphenyl-d14 (Surr)	*38*		*35 - 131*	*03/27/24 06:55*	*03/27/24 23:54*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*30 - 130*	*03/27/24 06:55*	*03/27/24 23:54*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**0.453**		0.100	0.0500	mg/L			03/26/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*4339*	*S1+*	*70 - 130*		*03/26/24 18:42*	*1*

Method: SW846 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20.8**	**B**	0.683	0.155	mg/L		03/26/24 12:47	03/27/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*96*		*25 - 128*	*03/26/24 12:47*	*03/27/24 13:48*	*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		03/25/24 05:52	03/25/24 15:46	1
Barium	**60.9**		10.0	4.40	ug/L		03/25/24 05:52	03/25/24 15:46	1
Cadmium	<0.440		5.00	0.440	ug/L		03/25/24 05:52	03/25/24 15:46	1
Chromium	**76.6**		10.0	1.10	ug/L		03/25/24 05:52	03/25/24 15:46	1
Silver	<1.50		10.0	1.50	ug/L		03/25/24 05:52	03/25/24 15:46	1
Lead	<6.60		10.0	6.60	ug/L		03/25/24 05:52	03/25/24 15:46	1
Selenium	<10.0		20.0	10.0	ug/L		03/25/24 05:52	03/25/24 15:46	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		03/25/24 10:44	03/25/24 16:03	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-830301/9
Matrix: Water
Analysis Batch: 830301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			03/29/24 13:54	1
Benzene	<0.270		1.00	0.270	ug/L			03/29/24 13:54	1
Bromobenzene	<0.240		1.00	0.240	ug/L			03/29/24 13:54	1
Bromoform	<0.590		1.00	0.590	ug/L			03/29/24 13:54	1
Bromomethane	<3.70		5.00	3.70	ug/L			03/29/24 13:54	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			03/29/24 13:54	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			03/29/24 13:54	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			03/29/24 13:54	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			03/29/24 13:54	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			03/29/24 13:54	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			03/29/24 13:54	1
Chloroethane	<4.60		5.00	4.60	ug/L			03/29/24 13:54	1
Chloroform	<0.270		1.00	0.270	ug/L			03/29/24 13:54	1
Chloromethane	<0.540		1.00	0.540	ug/L			03/29/24 13:54	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			03/29/24 13:54	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			03/29/24 13:54	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			03/29/24 13:54	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			03/29/24 13:54	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			03/29/24 13:54	1
Dibromomethane	<0.340		1.00	0.340	ug/L			03/29/24 13:54	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/29/24 13:54	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/29/24 13:54	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			03/29/24 13:54	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			03/29/24 13:54	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			03/29/24 13:54	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			03/29/24 13:54	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			03/29/24 13:54	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			03/29/24 13:54	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			03/29/24 13:54	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			03/29/24 13:54	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			03/29/24 13:54	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			03/29/24 13:54	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			03/29/24 13:54	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			03/29/24 13:54	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			03/29/24 13:54	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			03/29/24 13:54	1
Hexane	<0.650		5.00	0.650	ug/L			03/29/24 13:54	1
2-Hexanone	<3.20		10.0	3.20	ug/L			03/29/24 13:54	1
Iodomethane	<3.90		10.0	3.90	ug/L			03/29/24 13:54	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			03/29/24 13:54	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			03/29/24 13:54	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			03/29/24 13:54	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			03/29/24 13:54	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			03/29/24 13:54	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			03/29/24 13:54	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			03/29/24 13:54	1
Naphthalene	<2.40		5.00	2.40	ug/L			03/29/24 13:54	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			03/29/24 13:54	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-830301/9
Matrix: Water
Analysis Batch: 830301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	<0.430		1.00	0.430	ug/L			03/29/24 13:54	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			03/29/24 13:54	1
o-Xylene	<0.260		1.00	0.260	ug/L			03/29/24 13:54	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			03/29/24 13:54	1
Styrene	<0.270		1.00	0.270	ug/L			03/29/24 13:54	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			03/29/24 13:54	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			03/29/24 13:54	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			03/29/24 13:54	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			03/29/24 13:54	1
Toluene	<0.250		1.00	0.250	ug/L			03/29/24 13:54	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			03/29/24 13:54	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			03/29/24 13:54	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			03/29/24 13:54	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			03/29/24 13:54	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			03/29/24 13:54	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			03/29/24 13:54	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			03/29/24 13:54	1
Trichloroethene	<0.200		1.00	0.200	ug/L			03/29/24 13:54	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			03/29/24 13:54	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			03/29/24 13:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			03/29/24 13:54	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			03/29/24 13:54	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			03/29/24 13:54	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			03/29/24 13:54	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			03/29/24 13:54	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			03/29/24 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*03/29/24 13:54*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/29/24 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*03/29/24 13:54*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/29/24 13:54*	*1*

Lab Sample ID: LCS 680-830301/6
Matrix: Water
Analysis Batch: 830301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	230.4		ug/L		92	67 - 120
Benzene	50.0	50.95		ug/L		102	70 - 130
Bromobenzene	50.0	54.33		ug/L		109	70 - 130
Bromoform	50.0	50.87		ug/L		102	69 - 129
Bromomethane	50.0	52.77		ug/L		106	28 - 192
2-Butanone (MEK)	250	248.9		ug/L		100	69 - 120
Carbon disulfide	50.0	48.73		ug/L		97	70 - 130
Carbon tetrachloride	50.0	49.09		ug/L		98	70 - 130
Chlorobenzene	50.0	52.08		ug/L		104	70 - 130
Chlorobromomethane	50.0	50.90		ug/L		102	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-830301/6
Matrix: Water
Analysis Batch: 830301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	50.0	50.23		ug/L		100	70 - 130
Chloroethane	50.0	41.82		ug/L		84	31 - 213
Chloroform	50.0	45.59		ug/L		91	70 - 130
Chloromethane	50.0	47.47		ug/L		95	59 - 127
2-Chlorotoluene	50.0	53.24		ug/L		106	70 - 130
4-Chlorotoluene	50.0	53.22		ug/L		106	70 - 130
cis-1,2-Dichloroethene	50.0	47.60		ug/L		95	70 - 130
cis-1,3-Dichloropropene	50.0	50.72		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.29		ug/L		83	70 - 130
Dibromomethane	50.0	49.67		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	50.05		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	51.67		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	50.99		ug/L		102	70 - 130
Dichlorobromomethane	50.0	45.53		ug/L		91	70 - 130
Dichlorodifluoromethane	50.0	52.01		ug/L		104	70 - 130
1,1-Dichloroethane	50.0	48.26		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	48.74		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	52.41		ug/L		105	70 - 130
1,2-Dichloropropane	50.0	50.23		ug/L		100	70 - 130
1,3-Dichloropropane	50.0	52.28		ug/L		105	70 - 130
2,2-Dichloropropane	50.0	46.08		ug/L		92	70 - 130
1,1-Dichloropropene	50.0	52.31		ug/L		105	70 - 130
Ethylbenzene	50.0	50.97		ug/L		102	70 - 130
Ethylene Dibromide	50.0	53.32		ug/L		107	70 - 130
Hexachlorobutadiene	50.0	50.09		ug/L		100	70 - 130
Hexane	50.0	52.12		ug/L		104	70 - 130
2-Hexanone	250	229.6		ug/L		92	70 - 130
Iodomethane	50.0	49.18		ug/L		98	52 - 129
Isopropylbenzene	50.0	53.35		ug/L		107	70 - 130
4-Isopropyltoluene	50.0	53.31		ug/L		107	70 - 130
Methylene Chloride	50.0	46.34		ug/L		93	70 - 130
4-Methyl-2-pentanone (MIBK)	250	246.1		ug/L		98	68 - 120
Methyl tert-butyl ether	50.0	49.66		ug/L		99	70 - 130
m-Xylene & p-Xylene	50.0	51.15		ug/L		102	70 - 130
Naphthalene	50.0	47.99		ug/L		96	57 - 149
n-Butylbenzene	50.0	51.41		ug/L		103	70 - 130
n-Heptane	50.0	49.44		ug/L		99	65 - 120
N-Propylbenzene	50.0	55.35		ug/L		111	70 - 130
o-Xylene	50.0	52.08		ug/L		104	70 - 130
sec-Butylbenzene	50.0	55.87		ug/L		112	70 - 130
Styrene	50.0	54.20		ug/L		108	70 - 130
tert-Butylbenzene	50.0	55.61		ug/L		111	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.36		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.64		ug/L		95	70 - 130
Tetrachloroethene	50.0	53.05		ug/L		106	70 - 130
Toluene	50.0	50.23		ug/L		100	70 - 130
trans-1,4-Dichloro-2-butene	50.0	49.56		ug/L		99	67 - 120
trans-1,2-Dichloroethene	50.0	49.32		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	51.50		ug/L		103	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-830301/6
Matrix: Water
Analysis Batch: 830301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	48.53		ug/L		97	61 - 141
1,2,4-Trichlorobenzene	50.0	48.77		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	47.64		ug/L		95	70 - 130
1,1,2-Trichloroethane	50.0	50.74		ug/L		101	70 - 130
Trichloroethene	50.0	53.83		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	48.08		ug/L		96	63 - 142
1,2,3-Trichloropropane	50.0	53.44		ug/L		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.36		ug/L		103	63 - 141
1,2,4-Trimethylbenzene	50.0	53.73		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	50.0	54.37		ug/L		109	70 - 130
Vinyl acetate	100	67.21		ug/L		67	67 - 135
Vinyl chloride	50.0	53.42		ug/L		107	66 - 129
Xylenes, Total	100	103.2		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-830301/7
Matrix: Water
Analysis Batch: 830301

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
Acetone	250	248.2		ug/L		99	67 - 120	7	30
Benzene	50.0	51.97		ug/L		104	70 - 130	2	30
Bromobenzene	50.0	54.56		ug/L		109	70 - 130	0	30
Bromoform	50.0	52.58		ug/L		105	69 - 129	3	30
Bromomethane	50.0	53.45		ug/L		107	28 - 192	1	30
2-Butanone (MEK)	250	253.9		ug/L		102	69 - 120	2	30
Carbon disulfide	50.0	49.38		ug/L		99	70 - 130	1	30
Carbon tetrachloride	50.0	49.05		ug/L		98	70 - 130	0	30
Chlorobenzene	50.0	52.20		ug/L		104	70 - 130	0	30
Chlorobromomethane	50.0	53.65		ug/L		107	70 - 130	5	30
Chlorodibromomethane	50.0	52.07		ug/L		104	70 - 130	4	30
Chloroethane	50.0	51.30		ug/L		103	31 - 213	20	30
Chloroform	50.0	46.74		ug/L		93	70 - 130	2	30
Chloromethane	50.0	47.72		ug/L		95	59 - 127	1	30
2-Chlorotoluene	50.0	52.88		ug/L		106	70 - 130	1	30
4-Chlorotoluene	50.0	53.21		ug/L		106	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	48.51		ug/L		97	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	51.55		ug/L		103	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	42.87		ug/L		86	70 - 130	4	30
Dibromomethane	50.0	51.70		ug/L		103	70 - 130	4	30
1,2-Dichlorobenzene	50.0	50.68		ug/L		101	70 - 130	1	30
1,3-Dichlorobenzene	50.0	51.57		ug/L		103	70 - 130	0	30
1,4-Dichlorobenzene	50.0	50.87		ug/L		102	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-830301/7
Matrix: Water
Analysis Batch: 830301

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
Dichlorobromomethane	50.0	45.63		ug/L		91	70 - 130	0	30
Dichlorodifluoromethane	50.0	46.03		ug/L		92	70 - 130	12	40
1,1-Dichloroethane	50.0	49.32		ug/L		99	70 - 130	2	30
1,2-Dichloroethane	50.0	50.50		ug/L		101	70 - 130	4	50
1,1-Dichloroethene	50.0	53.82		ug/L		108	70 - 130	3	20
1,2-Dichloropropane	50.0	51.43		ug/L		103	70 - 130	2	20
1,3-Dichloropropane	50.0	54.06		ug/L		108	70 - 130	3	20
2,2-Dichloropropane	50.0	46.34		ug/L		93	70 - 130	1	20
1,1-Dichloropropene	50.0	52.48		ug/L		105	70 - 130	0	20
Ethylbenzene	50.0	51.15		ug/L		102	70 - 130	0	20
Ethylene Dibromide	50.0	55.72		ug/L		111	70 - 130	4	30
Hexachlorobutadiene	50.0	50.08		ug/L		100	70 - 130	0	20
Hexane	50.0	51.69		ug/L		103	70 - 130	1	30
2-Hexanone	250	245.8		ug/L		98	70 - 130	7	20
Iodomethane	50.0	49.69		ug/L		99	52 - 129	1	30
Isopropylbenzene	50.0	53.19		ug/L		106	70 - 130	0	30
4-Isopropyltoluene	50.0	53.07		ug/L		106	70 - 130	0	30
Methylene Chloride	50.0	47.99		ug/L		96	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	250	258.5		ug/L		103	68 - 120	5	30
Methyl tert-butyl ether	50.0	49.83		ug/L		100	70 - 130	0	30
m-Xylene & p-Xylene	50.0	51.18		ug/L		102	70 - 130	0	30
Naphthalene	50.0	49.76		ug/L		100	57 - 149	4	30
n-Butylbenzene	50.0	50.81		ug/L		102	70 - 130	1	30
n-Heptane	50.0	51.86		ug/L		104	65 - 120	5	30
N-Propylbenzene	50.0	54.62		ug/L		109	70 - 130	1	30
o-Xylene	50.0	51.83		ug/L		104	70 - 130	0	30
sec-Butylbenzene	50.0	55.27		ug/L		111	70 - 130	1	30
Styrene	50.0	53.97		ug/L		108	70 - 130	0	30
tert-Butylbenzene	50.0	54.79		ug/L		110	70 - 130	1	30
1,1,1,2-Tetrachloroethane	50.0	54.18		ug/L		108	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	48.80		ug/L		98	70 - 130	2	30
Tetrachloroethene	50.0	53.87		ug/L		108	70 - 130	2	30
Toluene	50.0	50.96		ug/L		102	70 - 130	1	30
trans-1,4-Dichloro-2-butene	50.0	50.61		ug/L		101	67 - 120	2	30
trans-1,2-Dichloroethene	50.0	49.95		ug/L		100	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	52.92		ug/L		106	70 - 130	3	30
1,2,3-Trichlorobenzene	50.0	49.92		ug/L		100	61 - 141	3	30
1,2,4-Trichlorobenzene	50.0	49.59		ug/L		99	70 - 130	2	30
1,1,1-Trichloroethane	50.0	47.37		ug/L		95	70 - 130	1	30
1,1,2-Trichloroethane	50.0	53.51		ug/L		107	70 - 130	5	30
Trichloroethene	50.0	54.24		ug/L		108	70 - 130	1	30
Trichlorofluoromethane	50.0	38.06		ug/L		76	63 - 142	23	30
1,2,3-Trichloropropane	50.0	55.40		ug/L		111	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.52		ug/L		97	63 - 141	6	30
1,2,4-Trimethylbenzene	50.0	54.01		ug/L		108	70 - 130	1	30
1,3,5-Trimethylbenzene	50.0	54.02		ug/L		108	70 - 130	1	30
Vinyl acetate	100	63.88	*-	ug/L		64	67 - 135	5	30
Vinyl chloride	50.0	49.28		ug/L		99	66 - 129	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-830301/7
Matrix: Water
Analysis Batch: 830301

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
Xylenes, Total			100	103.0		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-829813/1-A
Matrix: Water
Analysis Batch: 829956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 829813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.40		10.0	4.40	ug/L		03/27/24 06:55	03/27/24 19:13	1
Acenaphthylene	<3.60		10.0	3.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
Acetophenone	<2.20		10.0	2.20	ug/L		03/27/24 06:55	03/27/24 19:13	1
Anthracene	<3.60		10.0	3.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
Atrazine	<2.20		10.0	2.20	ug/L		03/27/24 06:55	03/27/24 19:13	1
Benzaldehyde	<4.80		10.0	4.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Benzo[a]anthracene	<4.20		10.0	4.20	ug/L		03/27/24 06:55	03/27/24 19:13	1
Benzo[a]pyrene	<2.80		10.0	2.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Benzo[b]fluoranthene	<3.10		10.0	3.10	ug/L		03/27/24 06:55	03/27/24 19:13	1
Benzo[g,h,i]perylene	<3.00		10.0	3.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
Benzo[k]fluoranthene	<2.90		10.0	2.90	ug/L		03/27/24 06:55	03/27/24 19:13	1
1,1'-Biphenyl	<4.60		10.0	4.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
Bis(2-chloroethoxy)methane	<1.80		10.0	1.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Bis(2-chloroethyl)ether	<3.60		10.0	3.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
bis (2-chloroisopropyl) ether	<3.10		10.0	3.10	ug/L		03/27/24 06:55	03/27/24 19:13	1
Bis(2-ethylhexyl) phthalate	<3.00		10.0	3.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
4-Bromophenyl phenyl ether	<4.70		10.0	4.70	ug/L		03/27/24 06:55	03/27/24 19:13	1
Butyl benzyl phthalate	<2.80		10.0	2.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Caprolactam	<2.80		10.0	2.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Carbazole	<1.80		10.0	1.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
4-Chloroaniline	<1.00		20.0	1.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
4-Chloro-3-methylphenol	<2.50		10.0	2.50	ug/L		03/27/24 06:55	03/27/24 19:13	1
2-Chloronaphthalene	<4.80		10.0	4.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
2-Chlorophenol	<3.20		10.0	3.20	ug/L		03/27/24 06:55	03/27/24 19:13	1
4-Chlorophenyl phenyl ether	<5.30		10.0	5.30	ug/L		03/27/24 06:55	03/27/24 19:13	1
Chrysene	<3.80		10.0	3.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Dibenz(a,h)anthracene	<3.00		10.0	3.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
Dibenzofuran	<1.90		10.0	1.90	ug/L		03/27/24 06:55	03/27/24 19:13	1
3,3'-Dichlorobenzidine	<10.0		60.0	10.0	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,4-Dichlorophenol	<3.70		10.0	3.70	ug/L		03/27/24 06:55	03/27/24 19:13	1
Diethyl phthalate	<2.20		10.0	2.20	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,4-Dimethylphenol	<3.00		10.0	3.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
Dimethyl phthalate	<2.10		10.0	2.10	ug/L		03/27/24 06:55	03/27/24 19:13	1
Di-n-butyl phthalate	<2.30		10.0	2.30	ug/L		03/27/24 06:55	03/27/24 19:13	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-829813/1-A
Matrix: Water
Analysis Batch: 829956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 829813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<5.30		50.0	5.30	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,4-Dinitrophenol	<16.0		50.0	16.0	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,4-Dinitrotoluene	<2.30		10.0	2.30	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,6-Dinitrotoluene	<2.80		10.0	2.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Di-n-octyl phthalate	<2.80		10.0	2.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
Fluoranthene	<1.60		10.0	1.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
Fluorene	<3.40		10.0	3.40	ug/L		03/27/24 06:55	03/27/24 19:13	1
Hexachlorobenzene	<1.60		10.0	1.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
Hexachlorobutadiene	<4.00		10.0	4.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
Hexachlorocyclopentadiene	<3.50		10.0	3.50	ug/L		03/27/24 06:55	03/27/24 19:13	1
Hexachloroethane	<3.60		10.0	3.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
Indeno[1,2,3-cd]pyrene	<4.30		10.0	4.30	ug/L		03/27/24 06:55	03/27/24 19:13	1
Isophorone	<2.00		10.0	2.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
2-Methylnaphthalene	<4.60		10.0	4.60	ug/L		03/27/24 06:55	03/27/24 19:13	1
2-Methylphenol	<1.80		10.0	1.80	ug/L		03/27/24 06:55	03/27/24 19:13	1
3 & 4 Methylphenol	<1.40		10.0	1.40	ug/L		03/27/24 06:55	03/27/24 19:13	1
Naphthalene	<3.50		10.0	3.50	ug/L		03/27/24 06:55	03/27/24 19:13	1
2-Nitroaniline	<2.90		50.0	2.90	ug/L		03/27/24 06:55	03/27/24 19:13	1
3-Nitroaniline	<3.00		50.0	3.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
4-Nitroaniline	<3.00		50.0	3.00	ug/L		03/27/24 06:55	03/27/24 19:13	1
Nitrobenzene	<3.50		10.0	3.50	ug/L		03/27/24 06:55	03/27/24 19:13	1
2-Nitrophenol	<3.90		10.0	3.90	ug/L		03/27/24 06:55	03/27/24 19:13	1
4-Nitrophenol	<8.10		50.0	8.10	ug/L		03/27/24 06:55	03/27/24 19:13	1
N-Nitrosodi-n-propylamine	<2.40		10.0	2.40	ug/L		03/27/24 06:55	03/27/24 19:13	1
N-Nitrosodiphenylamine	<2.90		10.0	2.90	ug/L		03/27/24 06:55	03/27/24 19:13	1
Pentachlorophenol	<9.90		50.0	9.90	ug/L		03/27/24 06:55	03/27/24 19:13	1
Phenanthrene	<4.30		10.0	4.30	ug/L		03/27/24 06:55	03/27/24 19:13	1
Phenol	<1.50		10.0	1.50	ug/L		03/27/24 06:55	03/27/24 19:13	1
Pyrene	<3.70		10.0	3.70	ug/L		03/27/24 06:55	03/27/24 19:13	1
Pyridine	<7.40		50.0	7.40	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,4,5-Trichlorophenol	<3.30		10.0	3.30	ug/L		03/27/24 06:55	03/27/24 19:13	1
2,4,6-Trichlorophenol	<2.20		10.0	2.20	ug/L		03/27/24 06:55	03/27/24 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*36*		*25 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
2-Fluorophenol (Surr)	*17*		*10 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
Nitrobenzene-d5 (Surr)	*34*		*30 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
Phenol-d5 (Surr)	*11*		*10 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
Terphenyl-d14 (Surr)	*46*		*35 - 131*	*03/27/24 06:55*	*03/27/24 19:13*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*30 - 130*	*03/27/24 06:55*	*03/27/24 19:13*	*1*

Lab Sample ID: LCS 680-829813/2-A
Matrix: Water
Analysis Batch: 829956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 829813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	200	117.8		ug/L		59	48 - 130
Acenaphthylene	200	124.1		ug/L		62	48 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-829813/2-A
Matrix: Water
Analysis Batch: 829956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 829813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	200	119.3		ug/L		60	44 - 130
Anthracene	200	130.7		ug/L		65	49 - 130
Atrazine	200	131.2		ug/L		66	39 - 130
Benzaldehyde	200	126.9		ug/L		63	14 - 130
Benzo[a]anthracene	200	140.7		ug/L		70	44 - 130
Benzo[a]pyrene	200	139.7		ug/L		70	44 - 130
Benzo[b]fluoranthene	200	147.7		ug/L		74	43 - 130
Benzo[g,h,i]perylene	200	135.7		ug/L		68	41 - 130
Benzo[k]fluoranthene	200	130.3		ug/L		65	40 - 130
1,1'-Biphenyl	200	121.6		ug/L		61	45 - 130
Bis(2-chloroethoxy)methane	200	122.8		ug/L		61	47 - 130
Bis(2-chloroethyl)ether	200	122.7		ug/L		61	32 - 130
bis (2-chloroisopropyl) ether	200	109.2		ug/L		55	26 - 130
Bis(2-ethylhexyl) phthalate	200	153.2		ug/L		77	45 - 130
4-Bromophenyl phenyl ether	200	127.3		ug/L		64	47 - 130
Butyl benzyl phthalate	200	154.7		ug/L		77	50 - 130
Caprolactam	200	40.56	*-	ug/L		20	26 - 130
Carbazole	200	137.3		ug/L		69	54 - 130
4-Chloroaniline	200	120.6		ug/L		60	42 - 130
4-Chloro-3-methylphenol	200	130.0		ug/L		65	47 - 130
2-Chloronaphthalene	200	121.0		ug/L		60	44 - 130
2-Chlorophenol	200	112.0		ug/L		56	39 - 130
4-Chlorophenyl phenyl ether	200	128.2		ug/L		64	45 - 130
Chrysene	200	141.9		ug/L		71	47 - 130
Dibenz(a,h)anthracene	200	137.5		ug/L		69	41 - 130
Dibenzofuran	200	123.7		ug/L		62	50 - 130
3,3'-Dichlorobenzidine	200	164.3		ug/L		82	46 - 130
2,4-Dichlorophenol	200	122.6		ug/L		61	44 - 130
Diethyl phthalate	200	134.7		ug/L		67	53 - 130
2,4-Dimethylphenol	200	122.1		ug/L		61	37 - 130
Dimethyl phthalate	200	130.6		ug/L		65	53 - 130
Di-n-butyl phthalate	200	146.0		ug/L		73	51 - 130
4,6-Dinitro-2-methylphenol	400	295.8		ug/L		74	42 - 130
2,4-Dinitrophenol	400	237.6		ug/L		59	31 - 130
2,4-Dinitrotoluene	200	163.3		ug/L		82	52 - 130
2,6-Dinitrotoluene	200	146.1		ug/L		73	52 - 130
Di-n-octyl phthalate	200	161.5		ug/L		81	42 - 130
Fluoranthene	200	136.7		ug/L		68	47 - 130
Fluorene	200	126.8		ug/L		63	50 - 130
Hexachlorobenzene	200	124.8		ug/L		62	43 - 130
Hexachlorobutadiene	200	114.1		ug/L		57	27 - 130
Hexachlorocyclopentadiene	200	73.94		ug/L		37	11 - 130
Hexachloroethane	200	108.1		ug/L		54	29 - 130
Indeno[1,2,3-cd]pyrene	200	146.4		ug/L		73	31 - 130
Isophorone	200	119.8		ug/L		60	47 - 130
2-Methylnaphthalene	200	121.8		ug/L		61	40 - 130
2-Methylphenol	200	102.6		ug/L		51	40 - 130
3 & 4 Methylphenol	200	97.26		ug/L		49	42 - 130
Naphthalene	200	116.7		ug/L		58	39 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-829813/2-A
Matrix: Water
Analysis Batch: 829956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 829813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitroaniline	200	138.6		ug/L		69	51 - 130
3-Nitroaniline	200	147.0		ug/L		74	53 - 130
4-Nitroaniline	200	142.8		ug/L		71	49 - 130
Nitrobenzene	200	121.4		ug/L		61	43 - 130
2-Nitrophenol	200	136.1		ug/L		68	43 - 130
4-Nitrophenol	400	128.5		ug/L		32	13 - 130
N-Nitrosodi-n-propylamine	200	115.6		ug/L		58	42 - 130
N-Nitrosodiphenylamine	200	130.8		ug/L		65	50 - 130
Pentachlorophenol	400	207.2		ug/L		52	33 - 130
Phenanthrene	200	129.4		ug/L		65	51 - 130
Phenol	200	44.63		ug/L		22	14 - 130
Pyrene	200	141.4		ug/L		71	52 - 130
Pyridine	400	34.18	J *-	ug/L		9	10 - 130
2,4,5-Trichlorophenol	200	121.8		ug/L		61	48 - 130
2,4,6-Trichlorophenol	200	133.0		ug/L		66	47 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*57*		*25 - 130*
2-Fluorophenol (Surr)	*33*		*10 - 130*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*
Phenol-d5 (Surr)	*21*		*10 - 130*
Terphenyl-d14 (Surr)	*64*		*35 - 131*
2,4,6-Tribromophenol (Surr)	*61*		*30 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 680-829688/10
Matrix: Water
Analysis Batch: 829688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.0500		0.100	0.0500	mg/L			03/26/24 18:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*70 - 130*		*03/26/24 18:21*	*1*

Lab Sample ID: LCS 680-829688/8
Matrix: Water
Analysis Batch: 829688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	0.500	0.4602		mg/L		92	70 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*113*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 680-829688/9
Matrix: Water
Analysis Batch: 829688

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
Gasoline Range Organics (GRO)-C6-C10			0.500	0.4400		mg/L		88	70 - 148	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*110*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 680-829713/1-A
Matrix: Water
Analysis Batch: 829882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 829713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.1469	J	0.300	0.0680	mg/L		03/26/24 12:47	03/27/24 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*25 - 128*	*03/26/24 12:47*	*03/27/24 11:20*	*1*

Lab Sample ID: LCS 680-829713/2-A
Matrix: Water
Analysis Batch: 829882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 829713

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			4.00	3.165		mg/L		79	21 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*88*		*25 - 128*

Lab Sample ID: LCSD 680-829713/3-A
Matrix: Water
Analysis Batch: 829882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 829713

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			4.00	3.054		mg/L		76	21 - 130	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*77*		*25 - 128*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-829400/1-A
Matrix: Water
Analysis Batch: 829606

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 829400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<6.40		20.0	6.40	ug/L		03/25/24 05:52	03/25/24 15:15	1
Barium	<4.40		10.0	4.40	ug/L		03/25/24 05:52	03/25/24 15:15	1
Cadmium	<0.440		5.00	0.440	ug/L		03/25/24 05:52	03/25/24 15:15	1
Chromium	<1.10		10.0	1.10	ug/L		03/25/24 05:52	03/25/24 15:15	1
Silver	<1.50		10.0	1.50	ug/L		03/25/24 05:52	03/25/24 15:15	1
Lead	<6.60		10.0	6.60	ug/L		03/25/24 05:52	03/25/24 15:15	1
Selenium	<10.0		20.0	10.0	ug/L		03/25/24 05:52	03/25/24 15:15	1

Lab Sample ID: LCS 680-829400/2-A
Matrix: Water
Analysis Batch: 829606

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 829400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	101.9		ug/L		102	80 - 120
Barium	100	107.0		ug/L		107	80 - 120
Cadmium	50.0	51.39		ug/L		103	80 - 120
Chromium	100	104.3		ug/L		104	80 - 120
Silver	50.0	51.55		ug/L		103	80 - 120
Lead	500	515.3		ug/L		103	80 - 120
Selenium	100	91.31		ug/L		91	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-829495/1-A
Matrix: Water
Analysis Batch: 829597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 829495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0800		0.200	0.0800	ug/L		03/25/24 10:44	03/25/24 15:30	1

Lab Sample ID: LCS 680-829495/2-A
Matrix: Water
Analysis Batch: 829597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 829495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.536		ug/L		101	80 - 120

GC/MS VOA

Analysis Batch: 830301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	8260D	
MB 680-830301/9	Method Blank	Total/NA	Water	8260D	
LCS 680-830301/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-830301/7	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 829813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	3510C	
MB 680-829813/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-829813/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 829956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	8270E	829813
MB 680-829813/1-A	Method Blank	Total/NA	Water	8270E	829813
LCS 680-829813/2-A	Lab Control Sample	Total/NA	Water	8270E	829813

GC VOA

Analysis Batch: 829688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	8015C	
MB 680-829688/10	Method Blank	Total/NA	Water	8015C	
LCS 680-829688/8	Lab Control Sample	Total/NA	Water	8015C	
LCSD 680-829688/9	Lab Control Sample Dup	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 829713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	3510C	
MB 680-829713/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-829713/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 680-829713/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 829882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	8015C	829713
MB 680-829713/1-A	Method Blank	Total/NA	Water	8015C	829713
LCS 680-829713/2-A	Lab Control Sample	Total/NA	Water	8015C	829713
LCSD 680-829713/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	829713

Metals

Prep Batch: 829400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total Recoverable	Water	3005A	
MB 680-829400/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-829400/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248446-1

Metals

Prep Batch: 829495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	7470A	
MB 680-829495/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-829495/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 829597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total/NA	Water	7470A	829495
MB 680-829495/1-A	Method Blank	Total/NA	Water	7470A	829495
LCS 680-829495/2-A	Lab Control Sample	Total/NA	Water	7470A	829495

Analysis Batch: 829606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-248446-1	Frac Tank-01	Total Recoverable	Water	6010D	829400
MB 680-829400/1-A	Method Blank	Total Recoverable	Water	6010D	829400
LCS 680-829400/2-A	Lab Control Sample	Total Recoverable	Water	6010D	829400

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-248446-1

Client Sample ID: Frac Tank-01

Date Collected: 03/21/24 09:45
Date Received: 03/22/24 10:14

Lab Sample ID: 680-248446-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		25	5 mL	5 mL	830301	03/29/24 22:06	AA	EET SAV
	Instrument ID: CMSAB									
Total/NA	Prep	3510C			490.8 mL	1 mL	829813	03/27/24 06:55	DS	EET SAV
Total/NA	Analysis	8270E		1	1 mL	1 mL	829956	03/27/24 23:54	OK	EET SAV
	Instrument ID: CMST									
Total/NA	Analysis	8015C		1	5 mL	5 mL	829688	03/26/24 18:42	IR	EET SAV
	Instrument ID: CVGWFID1									
Total/NA	Prep	3510C			109.8 mL	1 mL	829713	03/26/24 12:47	RR	EET SAV
Total/NA	Analysis	8015C		1	1 mL	1 mL	829882	03/27/24 13:48	DBM	EET SAV
	Instrument ID: CSGQ									
Total Recoverable	Prep	3005A			25 mL	25 mL	829400	03/25/24 05:52	RR	EET SAV
Total Recoverable	Analysis	6010D		1			829606	03/25/24 15:46	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	829495	03/25/24 10:44	DW	EET SAV
Total/NA	Analysis	7470A		1			829597	03/25/24 16:03	DW	EET SAV
	Instrument ID: QuickTrace2									

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: 680-248446-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Job ID: 680-248446-1
Project/Site: Tarheel Army Missile Plant

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	EET SAV
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	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

Protocol References:

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

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Client Information	Sampler: Alexander Manolukas	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-154778-55563.1
Client Contact: Mr. Ethan Dinwiddie	Phone: 910-523-4177	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page:
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site: 70237017	SSOW#:			

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)	8260D - VOCs-NC 02L List - Water	8270E - SVOCs	8015C_DRO - Diesel Range Organics	8015C_GRO - Gasoline Range Organics	6010D - RCRA Metals; 7470A - Hg	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	D		
Frac Tank-01	3/21/24	0945	G	W			X	X	X	X	X		
Trip Blank	3/21/24	—	↓	↓			X						On Hold

680-248446 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
	3/21/24 / 1715	Terracon		3.22.24 1014	TN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 4.4/4.4

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-248446-1

Login Number: 248446

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 4/15/2024 5:57:22 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-249346-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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4/15/2024 5:57:22 PM

Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-249346-5	Spill Check-01	Solid	04/10/24 17:00	04/11/24 10:24
680-249346-6	Spill Check-02	Solid	04/10/24 17:05	04/11/24 10:24
680-249346-7	Spill Check-03	Solid	04/10/24 17:10	04/11/24 10:24
680-249346-8	Frac Sludge	Solid	04/10/24 16:55	04/11/24 10:24

Job ID: 680-249346-2 Eurofins Savannah

Job Narrative
680-249346-2

Receipt
The samples were received on 4/11/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

GC/MS VOA
Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-832697 recovered outside control limits for the following analyte: Chloromethane. Chloromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-analysis was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Spill Check-01
Date Collected: 04/10/24 17:00
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-5
Matrix: Solid
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.504		0.0380	0.00835	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Benzene	<0.00182		0.00380	0.00182	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Bromobenzene	<0.00129		0.00380	0.00129	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Chlorobromomethane	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Dichlorobromomethane	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Bromoform	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Bromomethane	<0.00182		0.00380	0.00182	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
2-Butanone (MEK)	<0.00699		0.0190	0.00699	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
n-Butylbenzene	<0.00144		0.00380	0.00144	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
sec-Butylbenzene	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
tert-Butylbenzene	<0.00190		0.00380	0.00190	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Carbon disulfide	<0.00159		0.00380	0.00159	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Carbon tetrachloride	<0.00159		0.00380	0.00159	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Chlorobenzene	<0.00106		0.00380	0.00106	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Chloroethane	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Chloroform	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Chloromethane	<0.00182	*-	0.00380	0.00182	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
2-Chlorotoluene	<0.00175		0.00380	0.00175	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
4-Chlorotoluene	<0.00159		0.00380	0.00159	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Chlorodibromomethane	<0.00159		0.00380	0.00159	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2-Dibromo-3-Chloropropane	<0.00122		0.00760	0.00122	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Ethylene Dibromide	<0.00129		0.00380	0.00129	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Dibromomethane	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2-Dichlorobenzene	<0.00129		0.00380	0.00129	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,3-Dichlorobenzene	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,4-Dichlorobenzene	<0.00137		0.00380	0.00137	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
trans-1,4-Dichloro-2-butene	<0.00182		0.00760	0.00182	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Dichlorodifluoromethane	<0.00243		0.00380	0.00243	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1-Dichloroethane	<0.00220		0.00380	0.00220	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2-Dichloroethane	<0.00175		0.00380	0.00175	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
cis-1,2-Dichloroethene	<0.00220		0.00380	0.00220	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
trans-1,2-Dichloroethene	<0.00175		0.00380	0.00175	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1-Dichloroethene	<0.00273		0.00380	0.00273	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2-Dichloropropane	<0.00197		0.00380	0.00197	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,3-Dichloropropane	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
2,2-Dichloropropane	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1-Dichloropropene	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
cis-1,3-Dichloropropene	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
trans-1,3-Dichloropropene	<0.00197		0.00380	0.00197	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Ethylbenzene	<0.00159		0.00380	0.00159	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Hexachlorobutadiene	<0.00311		0.00380	0.00311	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
2-Hexanone	<0.0144		0.0190	0.0144	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Iodomethane	<0.00129		0.00380	0.00129	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Isopropylbenzene	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
4-Isopropyltoluene	<0.00197		0.00380	0.00197	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Methylene Chloride	<0.00608		0.00760	0.00608	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
4-Methyl-2-pentanone (MIBK)	<0.0137		0.0190	0.0137	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Methyl tert-butyl ether	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Naphthalene	<0.00235		0.00380	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1

Client Sample ID: Spill Check-01

Lab Sample ID: 680-249346-5

Date Collected: 04/10/24 17:00
Matrix: Solid
Date Received: 04/11/24 10:24
Percent Solids: 90.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Styrene	<0.00144		0.00380	0.00144	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1,1,2-Tetrachloroethane	<0.000987		0.00380	0.000987	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1,2,2-Tetrachloroethane	<0.00159		0.00380	0.00159	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Tetrachloroethene	<0.00197		0.00380	0.00197	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Toluene	<0.00197		0.00380	0.00197	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2,3-Trichlorobenzene	<0.00152		0.00380	0.00152	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2,4-Trichlorobenzene	<0.00190		0.00380	0.00190	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1,1-Trichloroethane	<0.00197		0.00380	0.00197	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1,2-Trichloroethane	<0.00114		0.00380	0.00114	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Trichloroethene	**0.00689**		0.00380	0.00137	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Trichlorofluoromethane	<0.00235		0.00380	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2,3-Trichloropropane	<0.00137		0.00380	0.00137	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00220		0.00380	0.00220	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,2,4-Trimethylbenzene	<0.00190		0.00380	0.00190	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
1,3,5-Trimethylbenzene	<0.00182		0.00380	0.00182	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Vinyl acetate	<0.00418		0.00760	0.00418	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Vinyl chloride	<0.00213		0.00380	0.00213	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
o-Xylene	<0.00175		0.00380	0.00175	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
m-Xylene & p-Xylene	<0.00167		0.00380	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Xylenes, Total	<0.00273		0.00760	0.00273	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Isopropyl ether	<0.00114		0.00760	0.00114	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Hexane	<0.00129		0.00380	0.00129	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
n-Heptane	<0.00327		0.00380	0.00327	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1
Ethyl acetate	<0.00760		0.00760	0.00760	mg/Kg	☼	04/12/24 15:15	04/12/24 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*118*		*65 - 130*	*04/12/24 15:15*	*04/12/24 20:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*	*04/12/24 15:15*	*04/12/24 20:39*	*1*
Dibromofluoromethane (Surr)	*110*		*65 - 130*	*04/12/24 15:15*	*04/12/24 20:39*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*	*04/12/24 15:15*	*04/12/24 20:39*	*1*

Client Sample ID: Spill Check-02

Lab Sample ID: 680-249346-6

Date Collected: 04/10/24 17:05
Matrix: Solid
Date Received: 04/11/24 10:24
Percent Solids: 82.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.214**		0.0491	0.0108	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Benzene	<0.00235		0.00491	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Bromobenzene	<0.00167		0.00491	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Chlorobromomethane	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Dichlorobromomethane	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Bromoform	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Bromomethane	<0.00235		0.00491	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
2-Butanone (MEK)	<0.00903		0.0245	0.00903	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
n-Butylbenzene	<0.00186		0.00491	0.00186	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
sec-Butylbenzene	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
tert-Butylbenzene	<0.00245		0.00491	0.00245	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Carbon disulfide	<0.00206		0.00491	0.00206	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Spill Check-02
Date Collected: 04/10/24 17:05
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-6
Matrix: Solid
Percent Solids: 82.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.00206		0.00491	0.00206	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Chlorobenzene	<0.00137		0.00491	0.00137	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Chloroethane	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Chloroform	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Chloromethane	<0.00235	*-	0.00491	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
2-Chlorotoluene	<0.00226		0.00491	0.00226	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
4-Chlorotoluene	<0.00206		0.00491	0.00206	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Chlorodibromomethane	<0.00206		0.00491	0.00206	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2-Dibromo-3-Chloropropane	<0.00157		0.00981	0.00157	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Ethylene Dibromide	<0.00167		0.00491	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Dibromomethane	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2-Dichlorobenzene	<0.00167		0.00491	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,3-Dichlorobenzene	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,4-Dichlorobenzene	<0.00177		0.00491	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
trans-1,4-Dichloro-2-butene	<0.00235		0.00981	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Dichlorodifluoromethane	<0.00314		0.00491	0.00314	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1-Dichloroethane	<0.00285		0.00491	0.00285	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2-Dichloroethane	<0.00226		0.00491	0.00226	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
cis-1,2-Dichloroethene	<0.00285		0.00491	0.00285	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
trans-1,2-Dichloroethene	<0.00226		0.00491	0.00226	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1-Dichloroethene	<0.00353		0.00491	0.00353	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2-Dichloropropane	<0.00255		0.00491	0.00255	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,3-Dichloropropane	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
2,2-Dichloropropane	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1-Dichloropropene	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
cis-1,3-Dichloropropene	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
trans-1,3-Dichloropropene	<0.00255		0.00491	0.00255	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Ethylbenzene	<0.00206		0.00491	0.00206	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Hexachlorobutadiene	<0.00402		0.00491	0.00402	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
2-Hexanone	<0.0186		0.0245	0.0186	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Iodomethane	<0.00167		0.00491	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Isopropylbenzene	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
4-Isopropyltoluene	<0.00255		0.00491	0.00255	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Methylene Chloride	<0.00785		0.00981	0.00785	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
4-Methyl-2-pentanone (MIBK)	<0.0177		0.0245	0.0177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Methyl tert-butyl ether	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Naphthalene	<0.00304		0.00491	0.00304	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
N-Propylbenzene	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Styrene	<0.00186		0.00491	0.00186	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1,1,2-Tetrachloroethane	<0.00128		0.00491	0.00128	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1,2,2-Tetrachloroethane	<0.00206		0.00491	0.00206	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Tetrachloroethene	<0.00255		0.00491	0.00255	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Toluene	<0.00255		0.00491	0.00255	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2,3-Trichlorobenzene	<0.00196		0.00491	0.00196	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2,4-Trichlorobenzene	<0.00245		0.00491	0.00245	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1,1-Trichloroethane	<0.00255		0.00491	0.00255	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1,2-Trichloroethane	<0.00147		0.00491	0.00147	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Trichloroethene	**0.00593**		0.00491	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Trichlorofluoromethane	<0.00304		0.00491	0.00304	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Spill Check-02

Lab Sample ID: 680-249346-6

Date Collected: 04/10/24 17:05
Date Received: 04/11/24 10:24

Matrix: Solid
Percent Solids: 82.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.00177		0.00491	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00285		0.00491	0.00285	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,2,4-Trimethylbenzene	<0.00245		0.00491	0.00245	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
1,3,5-Trimethylbenzene	<0.00235		0.00491	0.00235	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Vinyl acetate	<0.00540		0.00981	0.00540	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Vinyl chloride	<0.00275		0.00491	0.00275	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
o-Xylene	<0.00226		0.00491	0.00226	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
m-Xylene & p-Xylene	<0.00216		0.00491	0.00216	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Xylenes, Total	<0.00353		0.00981	0.00353	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Isopropyl ether	<0.00147		0.00981	0.00147	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Hexane	<0.00167		0.00491	0.00167	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
n-Heptane	<0.00422		0.00491	0.00422	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1
Ethyl acetate	<0.00981		0.00981	0.00981	mg/Kg	☼	04/12/24 15:15	04/12/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*117*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:01*	*1*
Dibromofluoromethane (Surr)	*117*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:01*	*1*

Client Sample ID: Spill Check-03

Lab Sample ID: 680-249346-7

Date Collected: 04/10/24 17:10
Date Received: 04/11/24 10:24

Matrix: Solid
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0146**	**J**	0.0384	0.00844	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Benzene	<0.00184		0.00384	0.00184	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Bromobenzene	<0.00131		0.00384	0.00131	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Chlorobromomethane	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Dichlorobromomethane	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Bromoform	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Bromomethane	<0.00184		0.00384	0.00184	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
2-Butanone (MEK)	<0.00706		0.0192	0.00706	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
n-Butylbenzene	<0.00146		0.00384	0.00146	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
sec-Butylbenzene	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
tert-Butylbenzene	<0.00192		0.00384	0.00192	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Carbon disulfide	<0.00161		0.00384	0.00161	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Carbon tetrachloride	<0.00161		0.00384	0.00161	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Chlorobenzene	<0.00107		0.00384	0.00107	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Chloroethane	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Chloroform	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Chloromethane	<0.00184	*-	0.00384	0.00184	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
2-Chlorotoluene	<0.00177		0.00384	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
4-Chlorotoluene	<0.00161		0.00384	0.00161	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Chlorodibromomethane	<0.00161		0.00384	0.00161	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2-Dibromo-3-Chloropropane	<0.00123		0.00768	0.00123	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Ethylene Dibromide	<0.00131		0.00384	0.00131	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Dibromomethane	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2-Dichlorobenzene	<0.00131		0.00384	0.00131	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Spill Check-03
Date Collected: 04/10/24 17:10
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-7
Matrix: Solid
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,4-Dichlorobenzene	<0.00138		0.00384	0.00138	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
trans-1,4-Dichloro-2-butene	<0.00184		0.00768	0.00184	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Dichlorodifluoromethane	<0.00246		0.00384	0.00246	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1-Dichloroethane	<0.00223		0.00384	0.00223	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2-Dichloroethane	<0.00177		0.00384	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
cis-1,2-Dichloroethene	<0.00223		0.00384	0.00223	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
trans-1,2-Dichloroethene	<0.00177		0.00384	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1-Dichloroethene	<0.00276		0.00384	0.00276	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2-Dichloropropane	<0.00200		0.00384	0.00200	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,3-Dichloropropane	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
2,2-Dichloropropane	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1-Dichloropropene	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
cis-1,3-Dichloropropene	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
trans-1,3-Dichloropropene	<0.00200		0.00384	0.00200	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Ethylbenzene	<0.00161		0.00384	0.00161	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Hexachlorobutadiene	<0.00315		0.00384	0.00315	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
2-Hexanone	<0.0146		0.0192	0.0146	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Iodomethane	<0.00131		0.00384	0.00131	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Isopropylbenzene	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
4-Isopropyltoluene	<0.00200		0.00384	0.00200	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Methylene Chloride	<0.00614		0.00768	0.00614	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
4-Methyl-2-pentanone (MIBK)	<0.0138		0.0192	0.0138	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Methyl tert-butyl ether	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Naphthalene	<0.00238		0.00384	0.00238	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
N-Propylbenzene	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Styrene	<0.00146		0.00384	0.00146	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1,1,2-Tetrachloroethane	<0.000998		0.00384	0.000998	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1,2,2-Tetrachloroethane	<0.00161		0.00384	0.00161	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Tetrachloroethene	<0.00200		0.00384	0.00200	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Toluene	<0.00200		0.00384	0.00200	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2,3-Trichlorobenzene	<0.00154		0.00384	0.00154	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2,4-Trichlorobenzene	<0.00192		0.00384	0.00192	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1,1-Trichloroethane	<0.00200		0.00384	0.00200	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1,2-Trichloroethane	<0.00115		0.00384	0.00115	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Trichloroethene	<0.00138		0.00384	0.00138	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Trichlorofluoromethane	<0.00238		0.00384	0.00238	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2,3-Trichloropropane	<0.00138		0.00384	0.00138	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00223		0.00384	0.00223	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,2,4-Trimethylbenzene	<0.00192		0.00384	0.00192	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
1,3,5-Trimethylbenzene	<0.00184		0.00384	0.00184	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Vinyl acetate	<0.00422		0.00768	0.00422	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Vinyl chloride	<0.00215		0.00384	0.00215	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
o-Xylene	<0.00177		0.00384	0.00177	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
m-Xylene & p-Xylene	<0.00169		0.00384	0.00169	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Xylenes, Total	<0.00276		0.00768	0.00276	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Isopropyl ether	<0.00115		0.00768	0.00115	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
Hexane	<0.00131		0.00384	0.00131	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1
n-Heptane	<0.00330		0.00384	0.00330	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1

Client Sample ID: Spill Check-03

Lab Sample ID: 680-249346-7

Date Collected: 04/10/24 17:10
Date Received: 04/11/24 10:24

Matrix: Solid
Percent Solids: 93.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	<0.00768		0.00768	0.00768	mg/Kg	☼	04/12/24 15:15	04/12/24 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:23*	*1*
Dibromofluoromethane (Surr)	*117*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:23*	*1*
4-Bromofluorobenzene (Surr)	*112*		*65 - 130*	*04/12/24 15:15*	*04/12/24 21:23*	*1*

Client Sample ID: Frac Sludge

Lab Sample ID: 680-249346-8

Date Collected: 04/10/24 16:55
Date Received: 04/11/24 10:24

Matrix: Solid
Percent Solids: 13.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.53		16.0	3.53	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Benzene	<0.770		1.60	0.770	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Bromobenzene	<0.546		1.60	0.546	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Chlorobromomethane	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Dichlorobromomethane	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Bromoform	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Bromomethane	<0.770		1.60	0.770	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
2-Butanone (MEK)	<2.95		8.02	2.95	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
n-Butylbenzene	<0.610		1.60	0.610	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
sec-Butylbenzene	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
tert-Butylbenzene	<0.802		1.60	0.802	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Carbon disulfide	<0.674		1.60	0.674	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Carbon tetrachloride	<0.674		1.60	0.674	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Chlorobenzene	<0.449		1.60	0.449	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Chloroethane	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Chloroform	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Chloromethane	<0.770		1.60	0.770	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
2-Chlorotoluene	<0.738		1.60	0.738	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
4-Chlorotoluene	<0.674		1.60	0.674	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Chlorodibromomethane	<0.674		1.60	0.674	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2-Dibromo-3-Chloropropane	<0.514		3.21	0.514	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Ethylene Dibromide	<0.546		1.60	0.546	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Dibromomethane	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2-Dichlorobenzene	<0.546		1.60	0.546	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,3-Dichlorobenzene	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,4-Dichlorobenzene	<0.578		1.60	0.578	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
trans-1,4-Dichloro-2-butene	<0.770		3.21	0.770	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Dichlorodifluoromethane	<1.03		1.60	1.03	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1-Dichloroethane	<0.931		1.60	0.931	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2-Dichloroethane	<0.738		1.60	0.738	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
cis-1,2-Dichloroethene	<0.931		1.60	0.931	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
trans-1,2-Dichloroethene	<0.738		1.60	0.738	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1-Dichloroethene	<1.16		1.60	1.16	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2-Dichloropropane	<0.834		1.60	0.834	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,3-Dichloropropane	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
2,2-Dichloropropane	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Frac Sludge
Date Collected: 04/10/24 16:55
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-8
Matrix: Solid
Percent Solids: 13.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
cis-1,3-Dichloropropene	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
trans-1,3-Dichloropropene	<0.834		1.60	0.834	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Ethylbenzene	<0.674		1.60	0.674	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Hexachlorobutadiene	<1.32		1.60	1.32	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
2-Hexanone	<6.10		8.02	6.10	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Iodomethane	<0.546		1.60	0.546	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Isopropylbenzene	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
4-Isopropyltoluene	<0.834		1.60	0.834	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Methylene Chloride	<2.57		3.21	2.57	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
4-Methyl-2-pentanone (MIBK)	<5.78		8.02	5.78	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Methyl tert-butyl ether	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Naphthalene	<0.995		1.60	0.995	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
N-Propylbenzene	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Styrene	<0.610		1.60	0.610	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1,1,2-Tetrachloroethane	<0.417		1.60	0.417	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1,2,2-Tetrachloroethane	<0.674		1.60	0.674	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Tetrachloroethene	**4.15**		1.60	0.834	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Toluene	<0.834		1.60	0.834	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2,3-Trichlorobenzene	<0.642		1.60	0.642	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2,4-Trichlorobenzene	<0.802		1.60	0.802	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1,1-Trichloroethane	<0.834		1.60	0.834	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1,2-Trichloroethane	<0.481		1.60	0.481	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Trichloroethene	**98.1**		10.0	3.61	mg/Kg	☼	04/12/24 15:15	04/15/24 16:30	250
Trichlorofluoromethane	<0.995		1.60	0.995	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2,3-Trichloropropane	<0.578		1.60	0.578	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.931		1.60	0.931	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,2,4-Trimethylbenzene	<0.802		1.60	0.802	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
1,3,5-Trimethylbenzene	<0.770		1.60	0.770	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Vinyl acetate	<1.77		3.21	1.77	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Vinyl chloride	<0.899		1.60	0.899	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
o-Xylene	<0.738		1.60	0.738	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
m-Xylene & p-Xylene	<0.706		1.60	0.706	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Xylenes, Total	<1.16		3.21	1.16	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Isopropyl ether	<0.481		3.21	0.481	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Hexane	<0.546		1.60	0.546	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
n-Heptane	<1.38		1.60	1.38	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40
Ethyl acetate	<3.21		3.21	3.21	mg/Kg	☼	04/12/24 15:15	04/15/24 14:41	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*65 - 130*	*04/12/24 15:15*	*04/15/24 14:41*	*40*
Toluene-d8 (Surr)	*122*		*65 - 130*	*04/12/24 15:15*	*04/15/24 16:30*	*250*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 130*	*04/12/24 15:15*	*04/15/24 14:41*	*40*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 130*	*04/12/24 15:15*	*04/15/24 16:30*	*250*
Dibromofluoromethane (Surr)	*110*		*65 - 130*	*04/12/24 15:15*	*04/15/24 14:41*	*40*
Dibromofluoromethane (Surr)	*116*		*65 - 130*	*04/12/24 15:15*	*04/15/24 16:30*	*250*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*	*04/12/24 15:15*	*04/15/24 14:41*	*40*
4-Bromofluorobenzene (Surr)	*105*		*65 - 130*	*04/12/24 15:15*	*04/15/24 16:30*	*250*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-832697/9
Matrix: Solid
Analysis Batch: 832697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0110		0.0500	0.0110	mg/Kg			04/12/24 17:24	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			04/12/24 17:24	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			04/12/24 17:24	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			04/12/24 17:24	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			04/12/24 17:24	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			04/12/24 17:24	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			04/12/24 17:24	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			04/12/24 17:24	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			04/12/24 17:24	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			04/12/24 17:24	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			04/12/24 17:24	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			04/12/24 17:24	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			04/12/24 17:24	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			04/12/24 17:24	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			04/12/24 17:24	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			04/12/24 17:24	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			04/12/24 17:24	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			04/12/24 17:24	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			04/12/24 17:24	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			04/12/24 17:24	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			04/12/24 17:24	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			04/12/24 17:24	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			04/12/24 17:24	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			04/12/24 17:24	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			04/12/24 17:24	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			04/12/24 17:24	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			04/12/24 17:24	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			04/12/24 17:24	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			04/12/24 17:24	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			04/12/24 17:24	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			04/12/24 17:24	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			04/12/24 17:24	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			04/12/24 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			04/12/24 17:24	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-832697/9
Matrix: Solid
Analysis Batch: 832697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			04/12/24 17:24	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			04/12/24 17:24	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			04/12/24 17:24	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			04/12/24 17:24	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			04/12/24 17:24	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			04/12/24 17:24	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			04/12/24 17:24	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			04/12/24 17:24	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			04/12/24 17:24	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			04/12/24 17:24	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			04/12/24 17:24	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			04/12/24 17:24	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			04/12/24 17:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			04/12/24 17:24	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			04/12/24 17:24	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			04/12/24 17:24	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			04/12/24 17:24	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			04/12/24 17:24	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			04/12/24 17:24	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			04/12/24 17:24	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			04/12/24 17:24	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			04/12/24 17:24	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			04/12/24 17:24	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			04/12/24 17:24	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			04/12/24 17:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*119*		*65 - 130*		*04/12/24 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 130*		*04/12/24 17:24*	*1*
Dibromofluoromethane (Surr)	*114*		*65 - 130*		*04/12/24 17:24*	*1*
4-Bromofluorobenzene (Surr)	*107*		*65 - 130*		*04/12/24 17:24*	*1*

Lab Sample ID: LCS 680-832697/4
Matrix: Solid
Analysis Batch: 832697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2554		mg/Kg		102	10 - 150
Benzene	0.0500	0.04894		mg/Kg		98	70 - 130
Bromobenzene	0.0500	0.05094		mg/Kg		102	70 - 130
Chlorobromomethane	0.0500	0.04661		mg/Kg		93	66 - 130
Dichlorobromomethane	0.0500	0.04709		mg/Kg		94	70 - 130
Bromoform	0.0500	0.04674		mg/Kg		93	68 - 130
Bromomethane	0.0500	0.03869		mg/Kg		77	70 - 130
2-Butanone (MEK)	0.250	0.2410		mg/Kg		96	40 - 150
n-Butylbenzene	0.0500	0.05122		mg/Kg		102	70 - 130
sec-Butylbenzene	0.0500	0.05283		mg/Kg		106	69 - 142

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-832697/4
Matrix: Solid
Analysis Batch: 832697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	0.0500	0.05161		mg/Kg		103	67 - 145
Carbon disulfide	0.0500	0.05253		mg/Kg		105	70 - 130
Carbon tetrachloride	0.0500	0.05078		mg/Kg		102	70 - 130
Chlorobenzene	0.0500	0.05093		mg/Kg		102	70 - 130
Chloroethane	0.0500	0.04026		mg/Kg		81	70 - 130
Chloroform	0.0500	0.04412		mg/Kg		88	70 - 130
Chloromethane	0.0500	0.02710	*-	mg/Kg		54	70 - 130
2-Chlorotoluene	0.0500	0.05136		mg/Kg		103	70 - 130
4-Chlorotoluene	0.0500	0.04997		mg/Kg		100	70 - 130
Chlorodibromomethane	0.0500	0.04656		mg/Kg		93	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04383		mg/Kg		88	42 - 145
Ethylene Dibromide	0.0500	0.04881		mg/Kg		98	48 - 150
Dibromomethane	0.0500	0.04597		mg/Kg		92	59 - 142
1,2-Dichlorobenzene	0.0500	0.04889		mg/Kg		98	70 - 130
1,3-Dichlorobenzene	0.0500	0.04995		mg/Kg		100	70 - 130
1,4-Dichlorobenzene	0.0500	0.04829		mg/Kg		97	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.04658		mg/Kg		93	54 - 150
Dichlorodifluoromethane	0.0500	0.02362		mg/Kg		47	43 - 131
1,1-Dichloroethane	0.0500	0.04662		mg/Kg		93	70 - 130
1,2-Dichloroethane	0.0500	0.04351		mg/Kg		87	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04855		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04799		mg/Kg		96	67 - 130
1,1-Dichloroethene	0.0500	0.05118		mg/Kg		102	69 - 130
1,2-Dichloropropane	0.0500	0.04582		mg/Kg		92	70 - 130
1,3-Dichloropropane	0.0500	0.04780		mg/Kg		96	54 - 150
2,2-Dichloropropane	0.0500	0.04808		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0500	0.05006		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04778		mg/Kg		96	70 - 130
trans-1,3-Dichloropropene	0.0500	0.04725		mg/Kg		94	54 - 150
Ethylbenzene	0.0500	0.05038		mg/Kg		101	70 - 130
Hexachlorobutadiene	0.0500	0.05178		mg/Kg		104	70 - 130
2-Hexanone	0.250	0.2301		mg/Kg		92	30 - 150
Iodomethane	0.0500	0.05636		mg/Kg		113	65 - 138
Isopropylbenzene	0.0500	0.05123		mg/Kg		102	70 - 130
4-Isopropyltoluene	0.0500	0.05148		mg/Kg		103	70 - 130
Methylene Chloride	0.0500	0.04779		mg/Kg		96	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2302		mg/Kg		92	34 - 150
Methyl tert-butyl ether	0.0500	0.04843		mg/Kg		97	70 - 130
Naphthalene	0.0500	0.04499		mg/Kg		90	46 - 150
N-Propylbenzene	0.0500	0.05317		mg/Kg		106	70 - 130
Styrene	0.0500	0.05046		mg/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	0.0500	0.05084		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04814		mg/Kg		96	64 - 130
Tetrachloroethene	0.0500	0.05120		mg/Kg		102	70 - 130
Toluene	0.0500	0.04734		mg/Kg		95	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.04857		mg/Kg		97	70 - 130
1,2,4-Trichlorobenzene	0.0500	0.04907		mg/Kg		98	70 - 130
1,1,1-Trichloroethane	0.0500	0.04879		mg/Kg		98	70 - 130
1,1,2-Trichloroethane	0.0500	0.04664		mg/Kg		93	56 - 146

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-832697/4
Matrix: Solid
Analysis Batch: 832697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.0500	0.05062		mg/Kg		101	70 - 130
Trichlorofluoromethane	0.0500	0.05014		mg/Kg		100	70 - 130
1,2,3-Trichloropropane	0.0500	0.04969		mg/Kg		99	64 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05174		mg/Kg		103	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.05023		mg/Kg		100	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.05112		mg/Kg		102	70 - 130
Vinyl acetate	0.100	0.08770		mg/Kg		88	53 - 150
Vinyl chloride	0.0500	0.04408		mg/Kg		88	70 - 130
o-Xylene	0.0500	0.05137		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.0500	0.05160		mg/Kg		103	70 - 130
Xylenes, Total	0.100	0.1030		mg/Kg		103	70 - 130
Hexane	0.0500	0.05020		mg/Kg		100	70 - 130
n-Heptane	0.0500	0.04844		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*93*		*65 - 130*

Lab Sample ID: LCSD 680-832697/5
Matrix: Solid
Analysis Batch: 832697

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
Acetone	0.250	0.2393		mg/Kg		96	10 - 150	6	50
Benzene	0.0500	0.05306		mg/Kg		106	70 - 130	8	30
Bromobenzene	0.0500	0.05602		mg/Kg		112	70 - 130	10	30
Chlorobromomethane	0.0500	0.05166		mg/Kg		103	66 - 130	10	30
Dichlorobromomethane	0.0500	0.05250		mg/Kg		105	70 - 130	11	30
Bromoform	0.0500	0.05215		mg/Kg		104	68 - 130	11	30
Bromomethane	0.0500	0.04298		mg/Kg		86	70 - 130	11	30
2-Butanone (MEK)	0.250	0.2468		mg/Kg		99	40 - 150	2	30
n-Butylbenzene	0.0500	0.05403		mg/Kg		108	70 - 130	5	30
sec-Butylbenzene	0.0500	0.05735		mg/Kg		115	69 - 142	8	30
tert-Butylbenzene	0.0500	0.05649		mg/Kg		113	67 - 145	9	30
Carbon disulfide	0.0500	0.05634		mg/Kg		113	70 - 130	7	30
Carbon tetrachloride	0.0500	0.05324		mg/Kg		106	70 - 130	5	30
Chlorobenzene	0.0500	0.05636		mg/Kg		113	70 - 130	10	30
Chloroethane	0.0500	0.03836		mg/Kg		77	70 - 130	5	30
Chloroform	0.0500	0.04987		mg/Kg		100	70 - 130	12	30
Chloromethane	0.0500	0.02672	*-	mg/Kg		53	70 - 130	1	30
2-Chlorotoluene	0.0500	0.05637		mg/Kg		113	70 - 130	9	30
4-Chlorotoluene	0.0500	0.05573		mg/Kg		111	70 - 130	11	30
Chlorodibromomethane	0.0500	0.05322		mg/Kg		106	64 - 133	13	30
1,2-Dibromo-3-Chloropropane	0.0500	0.05094		mg/Kg		102	42 - 145	15	30
Ethylene Dibromide	0.0500	0.05563		mg/Kg		111	48 - 150	13	30
Dibromomethane	0.0500	0.05102		mg/Kg		102	59 - 142	10	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-832697/5
Matrix: Solid
Analysis Batch: 832697

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
1,2-Dichlorobenzene	0.0500	0.05390		mg/Kg		108	70 - 130	10	30
1,3-Dichlorobenzene	0.0500	0.05463		mg/Kg		109	70 - 130	9	30
1,4-Dichlorobenzene	0.0500	0.05358		mg/Kg		107	70 - 130	10	30
trans-1,4-Dichloro-2-butene	0.0500	0.05488		mg/Kg		110	54 - 150	16	30
Dichlorodifluoromethane	0.0500	0.02366		mg/Kg		47	43 - 131	0	30
1,1-Dichloroethane	0.0500	0.05186		mg/Kg		104	70 - 130	11	30
1,2-Dichloroethane	0.0500	0.04906		mg/Kg		98	68 - 139	12	30
cis-1,2-Dichloroethene	0.0500	0.05326		mg/Kg		107	70 - 130	9	30
trans-1,2-Dichloroethene	0.0500	0.05287		mg/Kg		106	67 - 130	10	30
1,1-Dichloroethene	0.0500	0.05515		mg/Kg		110	69 - 130	7	50
1,2-Dichloropropane	0.0500	0.05180		mg/Kg		104	70 - 130	12	30
1,3-Dichloropropane	0.0500	0.05272		mg/Kg		105	54 - 150	10	30
2,2-Dichloropropane	0.0500	0.05208		mg/Kg		104	70 - 130	8	30
1,1-Dichloropropene	0.0500	0.05426		mg/Kg		109	70 - 130	8	30
cis-1,3-Dichloropropene	0.0500	0.05405		mg/Kg		108	70 - 130	12	30
trans-1,3-Dichloropropene	0.0500	0.05344		mg/Kg		107	54 - 150	12	30
Ethylbenzene	0.0500	0.05595		mg/Kg		112	70 - 130	10	30
Hexachlorobutadiene	0.0500	0.05462		mg/Kg		109	70 - 130	5	30
2-Hexanone	0.250	0.2550		mg/Kg		102	30 - 150	10	30
Iodomethane	0.0500	0.06044		mg/Kg		121	65 - 138	7	30
Isopropylbenzene	0.0500	0.05632		mg/Kg		113	70 - 130	9	30
4-Isopropyltoluene	0.0500	0.05505		mg/Kg		110	70 - 130	7	30
Methylene Chloride	0.0500	0.05231		mg/Kg		105	54 - 149	9	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2614		mg/Kg		105	34 - 150	13	30
Methyl tert-butyl ether	0.0500	0.05483		mg/Kg		110	70 - 130	12	30
Naphthalene	0.0500	0.05112		mg/Kg		102	46 - 150	13	30
N-Propylbenzene	0.0500	0.05816		mg/Kg		116	70 - 130	9	30
Styrene	0.0500	0.05534		mg/Kg		111	70 - 130	9	30
1,1,1,2-Tetrachloroethane	0.0500	0.05857		mg/Kg		117	70 - 130	14	30
1,1,2,2-Tetrachloroethane	0.0500	0.05478		mg/Kg		110	64 - 130	13	30
Tetrachloroethene	0.0500	0.05542		mg/Kg		111	70 - 130	8	30
Toluene	0.0500	0.05154		mg/Kg		103	70 - 130	9	30
1,2,3-Trichlorobenzene	0.0500	0.05507		mg/Kg		110	70 - 130	13	30
1,2,4-Trichlorobenzene	0.0500	0.05217		mg/Kg		104	70 - 130	6	30
1,1,1-Trichloroethane	0.0500	0.05303		mg/Kg		106	70 - 130	8	30
1,1,2-Trichloroethane	0.0500	0.05245		mg/Kg		105	56 - 146	12	30
Trichloroethene	0.0500	0.05496		mg/Kg		110	70 - 130	8	30
Trichlorofluoromethane	0.0500	0.04628		mg/Kg		93	70 - 130	8	30
1,2,3-Trichloropropane	0.0500	0.05838		mg/Kg		117	64 - 130	16	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.05603		mg/Kg		112	70 - 130	8	40
1,2,4-Trimethylbenzene	0.0500	0.05596		mg/Kg		112	70 - 130	11	30
1,3,5-Trimethylbenzene	0.0500	0.05610		mg/Kg		112	70 - 130	9	30
Vinyl acetate	0.100	0.09615		mg/Kg		96	53 - 150	9	30
Vinyl chloride	0.0500	0.04137		mg/Kg		83	70 - 130	6	30
o-Xylene	0.0500	0.05485		mg/Kg		110	70 - 130	7	30
m-Xylene & p-Xylene	0.0500	0.05618		mg/Kg		112	70 - 130	9	30
Xylenes, Total	0.100	0.1110		mg/Kg		111	70 - 130	8	30
Hexane	0.0500	0.05659		mg/Kg		113	70 - 130	12	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-832697/5
Matrix: Solid
Analysis Batch: 832697

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
n-Heptane			0.0500	0.05283		mg/Kg		106	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 130*
Dibromofluoromethane (Surr)	*106*		*65 - 130*
4-Bromofluorobenzene (Surr)	*106*		*65 - 130*

Lab Sample ID: MB 680-832915/8
Matrix: Solid
Analysis Batch: 832915

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.01225	J	0.0500	0.0110	mg/Kg			04/15/24 13:59	1
Benzene	<0.00240		0.00500	0.00240	mg/Kg			04/15/24 13:59	1
Bromobenzene	<0.00170		0.00500	0.00170	mg/Kg			04/15/24 13:59	1
Chlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
Dichlorobromomethane	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
Bromoform	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
Bromomethane	<0.00240		0.00500	0.00240	mg/Kg			04/15/24 13:59	1
2-Butanone (MEK)	<0.00920		0.0250	0.00920	mg/Kg			04/15/24 13:59	1
n-Butylbenzene	<0.00190		0.00500	0.00190	mg/Kg			04/15/24 13:59	1
sec-Butylbenzene	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
tert-Butylbenzene	<0.00250		0.00500	0.00250	mg/Kg			04/15/24 13:59	1
Carbon disulfide	<0.00210		0.00500	0.00210	mg/Kg			04/15/24 13:59	1
Carbon tetrachloride	<0.00210		0.00500	0.00210	mg/Kg			04/15/24 13:59	1
Chlorobenzene	<0.00140		0.00500	0.00140	mg/Kg			04/15/24 13:59	1
Chloroethane	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
Chloroform	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
Chloromethane	<0.00240		0.00500	0.00240	mg/Kg			04/15/24 13:59	1
2-Chlorotoluene	<0.00230		0.00500	0.00230	mg/Kg			04/15/24 13:59	1
4-Chlorotoluene	<0.00210		0.00500	0.00210	mg/Kg			04/15/24 13:59	1
Chlorodibromomethane	<0.00210		0.00500	0.00210	mg/Kg			04/15/24 13:59	1
1,2-Dibromo-3-Chloropropane	<0.00160		0.0100	0.00160	mg/Kg			04/15/24 13:59	1
Ethylene Dibromide	<0.00170		0.00500	0.00170	mg/Kg			04/15/24 13:59	1
Dibromomethane	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
1,2-Dichlorobenzene	<0.00170		0.00500	0.00170	mg/Kg			04/15/24 13:59	1
1,3-Dichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
1,4-Dichlorobenzene	<0.00180		0.00500	0.00180	mg/Kg			04/15/24 13:59	1
trans-1,4-Dichloro-2-butene	<0.00240		0.0100	0.00240	mg/Kg			04/15/24 13:59	1
Dichlorodifluoromethane	<0.00320		0.00500	0.00320	mg/Kg			04/15/24 13:59	1
1,1-Dichloroethane	<0.00290		0.00500	0.00290	mg/Kg			04/15/24 13:59	1
1,2-Dichloroethane	<0.00230		0.00500	0.00230	mg/Kg			04/15/24 13:59	1
cis-1,2-Dichloroethene	<0.00290		0.00500	0.00290	mg/Kg			04/15/24 13:59	1
trans-1,2-Dichloroethene	<0.00230		0.00500	0.00230	mg/Kg			04/15/24 13:59	1
1,1-Dichloroethene	<0.00360		0.00500	0.00360	mg/Kg			04/15/24 13:59	1
1,2-Dichloropropane	<0.00260		0.00500	0.00260	mg/Kg			04/15/24 13:59	1
1,3-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-832915/8
Matrix: Solid
Analysis Batch: 832915

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
1,1-Dichloropropene	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
cis-1,3-Dichloropropene	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
trans-1,3-Dichloropropene	<0.00260		0.00500	0.00260	mg/Kg			04/15/24 13:59	1
Ethylbenzene	<0.00210		0.00500	0.00210	mg/Kg			04/15/24 13:59	1
Hexachlorobutadiene	<0.00410		0.00500	0.00410	mg/Kg			04/15/24 13:59	1
2-Hexanone	<0.0190		0.0250	0.0190	mg/Kg			04/15/24 13:59	1
Iodomethane	<0.00170		0.00500	0.00170	mg/Kg			04/15/24 13:59	1
Isopropylbenzene	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
4-Isopropyltoluene	<0.00260		0.00500	0.00260	mg/Kg			04/15/24 13:59	1
Methylene Chloride	<0.00800		0.0100	0.00800	mg/Kg			04/15/24 13:59	1
4-Methyl-2-pentanone (MIBK)	<0.0180		0.0250	0.0180	mg/Kg			04/15/24 13:59	1
Methyl tert-butyl ether	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
Naphthalene	<0.00310		0.00500	0.00310	mg/Kg			04/15/24 13:59	1
N-Propylbenzene	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
Styrene	<0.00190		0.00500	0.00190	mg/Kg			04/15/24 13:59	1
1,1,1,2-Tetrachloroethane	<0.00130		0.00500	0.00130	mg/Kg			04/15/24 13:59	1
1,1,2,2-Tetrachloroethane	<0.00210		0.00500	0.00210	mg/Kg			04/15/24 13:59	1
Tetrachloroethene	<0.00260		0.00500	0.00260	mg/Kg			04/15/24 13:59	1
Toluene	<0.00260		0.00500	0.00260	mg/Kg			04/15/24 13:59	1
1,2,3-Trichlorobenzene	<0.00200		0.00500	0.00200	mg/Kg			04/15/24 13:59	1
1,2,4-Trichlorobenzene	<0.00250		0.00500	0.00250	mg/Kg			04/15/24 13:59	1
1,1,1-Trichloroethane	<0.00260		0.00500	0.00260	mg/Kg			04/15/24 13:59	1
1,1,2-Trichloroethane	<0.00150		0.00500	0.00150	mg/Kg			04/15/24 13:59	1
Trichloroethene	<0.00180		0.00500	0.00180	mg/Kg			04/15/24 13:59	1
Trichlorofluoromethane	<0.00310		0.00500	0.00310	mg/Kg			04/15/24 13:59	1
1,2,3-Trichloropropane	<0.00180		0.00500	0.00180	mg/Kg			04/15/24 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.00290		0.00500	0.00290	mg/Kg			04/15/24 13:59	1
1,2,4-Trimethylbenzene	<0.00250		0.00500	0.00250	mg/Kg			04/15/24 13:59	1
1,3,5-Trimethylbenzene	<0.00240		0.00500	0.00240	mg/Kg			04/15/24 13:59	1
Vinyl acetate	<0.00550		0.0100	0.00550	mg/Kg			04/15/24 13:59	1
Vinyl chloride	<0.00280		0.00500	0.00280	mg/Kg			04/15/24 13:59	1
o-Xylene	<0.00230		0.00500	0.00230	mg/Kg			04/15/24 13:59	1
m-Xylene & p-Xylene	<0.00220		0.00500	0.00220	mg/Kg			04/15/24 13:59	1
Xylenes, Total	<0.00360		0.0100	0.00360	mg/Kg			04/15/24 13:59	1
Isopropyl ether	<0.00150		0.0100	0.00150	mg/Kg			04/15/24 13:59	1
Hexane	<0.00170		0.00500	0.00170	mg/Kg			04/15/24 13:59	1
n-Heptane	<0.00430		0.00500	0.00430	mg/Kg			04/15/24 13:59	1
Ethyl acetate	<0.0100		0.0100	0.0100	mg/Kg			04/15/24 13:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*65 - 130*		*04/15/24 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 130*		*04/15/24 13:59*	*1*
Dibromofluoromethane (Surr)	*115*		*65 - 130*		*04/15/24 13:59*	*1*
4-Bromofluorobenzene (Surr)	*108*		*65 - 130*		*04/15/24 13:59*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-832915/4
Matrix: Solid
Analysis Batch: 832915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.250	0.2148		mg/Kg		86	10 - 150
Benzene	0.0500	0.04674		mg/Kg		93	70 - 130
Bromobenzene	0.0500	0.05165		mg/Kg		103	70 - 130
Chlorobromomethane	0.0500	0.04299		mg/Kg		86	66 - 130
Dichlorobromomethane	0.0500	0.04786		mg/Kg		96	70 - 130
Bromoform	0.0500	0.04846		mg/Kg		97	68 - 130
Bromomethane	0.0500	0.03611		mg/Kg		72	70 - 130
2-Butanone (MEK)	0.250	0.2225		mg/Kg		89	40 - 150
n-Butylbenzene	0.0500	0.05023		mg/Kg		100	70 - 130
sec-Butylbenzene	0.0500	0.05173		mg/Kg		103	69 - 142
tert-Butylbenzene	0.0500	0.05118		mg/Kg		102	67 - 145
Carbon disulfide	0.0500	0.04711		mg/Kg		94	70 - 130
Carbon tetrachloride	0.0500	0.04982		mg/Kg		100	70 - 130
Chlorobenzene	0.0500	0.05021		mg/Kg		100	70 - 130
Chloroethane	0.0500	0.03506		mg/Kg		70	70 - 130
Chloroform	0.0500	0.04639		mg/Kg		93	70 - 130
Chloromethane	0.0500	0.04004		mg/Kg		80	70 - 130
2-Chlorotoluene	0.0500	0.05162		mg/Kg		103	70 - 130
4-Chlorotoluene	0.0500	0.05095		mg/Kg		102	70 - 130
Chlorodibromomethane	0.0500	0.04776		mg/Kg		96	64 - 133
1,2-Dibromo-3-Chloropropane	0.0500	0.04558		mg/Kg		91	42 - 145
Ethylene Dibromide	0.0500	0.04891		mg/Kg		98	48 - 150
Dibromomethane	0.0500	0.04601		mg/Kg		92	59 - 142
1,2-Dichlorobenzene	0.0500	0.04767		mg/Kg		95	70 - 130
1,3-Dichlorobenzene	0.0500	0.04957		mg/Kg		99	70 - 130
1,4-Dichlorobenzene	0.0500	0.04803		mg/Kg		96	70 - 130
trans-1,4-Dichloro-2-butene	0.0500	0.05113		mg/Kg		102	54 - 150
Dichlorodifluoromethane	0.0500	0.03921		mg/Kg		78	43 - 131
1,1-Dichloroethane	0.0500	0.04605		mg/Kg		92	70 - 130
1,2-Dichloroethane	0.0500	0.04387		mg/Kg		88	68 - 139
cis-1,2-Dichloroethene	0.0500	0.04981		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05029		mg/Kg		101	67 - 130
1,1-Dichloroethene	0.0500	0.04881		mg/Kg		98	69 - 130
1,2-Dichloropropane	0.0500	0.04529		mg/Kg		91	70 - 130
1,3-Dichloropropane	0.0500	0.04645		mg/Kg		93	54 - 150
2,2-Dichloropropane	0.0500	0.04814		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0500	0.04994		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	0.0500	0.04820		mg/Kg		96	70 - 130
trans-1,3-Dichloropropene	0.0500	0.04818		mg/Kg		96	54 - 150
Ethylbenzene	0.0500	0.05001		mg/Kg		100	70 - 130
Hexachlorobutadiene	0.0500	0.05216		mg/Kg		104	70 - 130
2-Hexanone	0.250	0.2304		mg/Kg		92	30 - 150
Iodomethane	0.0500	0.04756		mg/Kg		95	65 - 138
Isopropylbenzene	0.0500	0.04921		mg/Kg		98	70 - 130
4-Isopropyltoluene	0.0500	0.05030		mg/Kg		101	70 - 130
Methylene Chloride	0.0500	0.04391		mg/Kg		88	54 - 149
4-Methyl-2-pentanone (MIBK)	0.250	0.2335		mg/Kg		93	34 - 150
Methyl tert-butyl ether	0.0500	0.04857		mg/Kg		97	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-832915/4
Matrix: Solid
Analysis Batch: 832915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			0.0500	0.04662		mg/Kg		93	46 - 150		
N-Propylbenzene			0.0500	0.05154		mg/Kg		103	70 - 130		
Styrene			0.0500	0.04919		mg/Kg		98	70 - 130		
1,1,1,2-Tetrachloroethane			0.0500	0.05290		mg/Kg		106	70 - 130		
1,1,2,2-Tetrachloroethane			0.0500	0.05069		mg/Kg		101	64 - 130		
Tetrachloroethene			0.0500	0.05009		mg/Kg		100	70 - 130		
Toluene			0.0500	0.04674		mg/Kg		93	70 - 130		
1,2,3-Trichlorobenzene			0.0500	0.04853		mg/Kg		97	70 - 130		
1,2,4-Trichlorobenzene			0.0500	0.04832		mg/Kg		97	70 - 130		
1,1,1-Trichloroethane			0.0500	0.04802		mg/Kg		96	70 - 130		
1,1,2-Trichloroethane			0.0500	0.04825		mg/Kg		96	56 - 146		
Trichloroethene			0.0500	0.05102		mg/Kg		102	70 - 130		
Trichlorofluoromethane			0.0500	0.04550		mg/Kg		91	70 - 130		
1,2,3-Trichloropropane			0.0500	0.05348		mg/Kg		107	64 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.04892		mg/Kg		98	70 - 130		
1,2,4-Trimethylbenzene			0.0500	0.04958		mg/Kg		99	70 - 130		
1,3,5-Trimethylbenzene			0.0500	0.05089		mg/Kg		102	70 - 130		
Vinyl acetate			0.100	0.08376		mg/Kg		84	53 - 150		
Vinyl chloride			0.0500	0.04056		mg/Kg		81	70 - 130		
o-Xylene			0.0500	0.04941		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.0500	0.05044		mg/Kg		101	70 - 130		
Xylenes, Total			0.100	0.09985		mg/Kg		100	70 - 130		
Hexane			0.0500	0.04953		mg/Kg		99	70 - 130		
n-Heptane			0.0500	0.04721		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*95*		*65 - 130*

Lab Sample ID: LCSD 680-832915/5
Matrix: Solid
Analysis Batch: 832915

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
Acetone			0.250	0.2152		mg/Kg		86	10 - 150	0	50
Benzene			0.0500	0.05035		mg/Kg		101	70 - 130	7	30
Bromobenzene			0.0500	0.05059		mg/Kg		101	70 - 130	2	30
Chlorobromomethane			0.0500	0.04577		mg/Kg		92	66 - 130	6	30
Dichlorobromomethane			0.0500	0.04931		mg/Kg		99	70 - 130	3	30
Bromoform			0.0500	0.04713		mg/Kg		94	68 - 130	3	30
Bromomethane			0.0500	0.03677		mg/Kg		74	70 - 130	2	30
2-Butanone (MEK)			0.250	0.2318		mg/Kg		93	40 - 150	4	30
n-Butylbenzene			0.0500	0.05283		mg/Kg		106	70 - 130	5	30
sec-Butylbenzene			0.0500	0.05182		mg/Kg		104	69 - 142	0	30
tert-Butylbenzene			0.0500	0.05027		mg/Kg		101	67 - 145	2	30
Carbon disulfide			0.0500	0.05028		mg/Kg		101	70 - 130	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-832915/5
Matrix: Solid
Analysis Batch: 832915

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
Carbon tetrachloride	0.0500	0.05108		mg/Kg		102	70 - 130	2	30
Chlorobenzene	0.0500	0.04967		mg/Kg		99	70 - 130	1	30
Chloroethane	0.0500	0.04160		mg/Kg		83	70 - 130	17	30
Chloroform	0.0500	0.04757		mg/Kg		95	70 - 130	3	30
Chloromethane	0.0500	0.04310		mg/Kg		86	70 - 130	7	30
2-Chlorotoluene	0.0500	0.05054		mg/Kg		101	70 - 130	2	30
4-Chlorotoluene	0.0500	0.04975		mg/Kg		99	70 - 130	2	30
Chlorodibromomethane	0.0500	0.04942		mg/Kg		99	64 - 133	3	30
1,2-Dibromo-3-Chloropropane	0.0500	0.04576		mg/Kg		92	42 - 145	0	30
Ethylene Dibromide	0.0500	0.05019		mg/Kg		100	48 - 150	3	30
Dibromomethane	0.0500	0.04751		mg/Kg		95	59 - 142	3	30
1,2-Dichlorobenzene	0.0500	0.04843		mg/Kg		97	70 - 130	2	30
1,3-Dichlorobenzene	0.0500	0.05012		mg/Kg		100	70 - 130	1	30
1,4-Dichlorobenzene	0.0500	0.04857		mg/Kg		97	70 - 130	1	30
trans-1,4-Dichloro-2-butene	0.0500	0.05079		mg/Kg		102	54 - 150	1	30
Dichlorodifluoromethane	0.0500	0.04168		mg/Kg		83	43 - 131	6	30
1,1-Dichloroethane	0.0500	0.04843		mg/Kg		97	70 - 130	5	30
1,2-Dichloroethane	0.0500	0.04691		mg/Kg		94	68 - 139	7	30
cis-1,2-Dichloroethene	0.0500	0.05109		mg/Kg		102	70 - 130	3	30
trans-1,2-Dichloroethene	0.0500	0.05269		mg/Kg		105	67 - 130	5	30
1,1-Dichloroethene	0.0500	0.05141		mg/Kg		103	69 - 130	5	50
1,2-Dichloropropane	0.0500	0.04851		mg/Kg		97	70 - 130	7	30
1,3-Dichloropropane	0.0500	0.04954		mg/Kg		99	54 - 150	6	30
2,2-Dichloropropane	0.0500	0.04887		mg/Kg		98	70 - 130	2	30
1,1-Dichloropropene	0.0500	0.05072		mg/Kg		101	70 - 130	2	30
cis-1,3-Dichloropropene	0.0500	0.05020		mg/Kg		100	70 - 130	4	30
trans-1,3-Dichloropropene	0.0500	0.04807		mg/Kg		96	54 - 150	0	30
Ethylbenzene	0.0500	0.05070		mg/Kg		101	70 - 130	1	30
Hexachlorobutadiene	0.0500	0.05379		mg/Kg		108	70 - 130	3	30
2-Hexanone	0.250	0.2384		mg/Kg		95	30 - 150	3	30
Iodomethane	0.0500	0.04978		mg/Kg		100	65 - 138	5	30
Isopropylbenzene	0.0500	0.05205		mg/Kg		104	70 - 130	6	30
4-Isopropyltoluene	0.0500	0.05134		mg/Kg		103	70 - 130	2	30
Methylene Chloride	0.0500	0.04634		mg/Kg		93	54 - 149	5	30
4-Methyl-2-pentanone (MIBK)	0.250	0.2439		mg/Kg		98	34 - 150	4	30
Methyl tert-butyl ether	0.0500	0.05081		mg/Kg		102	70 - 130	4	30
Naphthalene	0.0500	0.04652		mg/Kg		93	46 - 150	0	30
N-Propylbenzene	0.0500	0.05315		mg/Kg		106	70 - 130	3	30
Styrene	0.0500	0.04998		mg/Kg		100	70 - 130	2	30
1,1,1,2-Tetrachloroethane	0.0500	0.05310		mg/Kg		106	70 - 130	0	30
1,1,2,2-Tetrachloroethane	0.0500	0.04950		mg/Kg		99	64 - 130	2	30
Tetrachloroethene	0.0500	0.05144		mg/Kg		103	70 - 130	3	30
Toluene	0.0500	0.04671		mg/Kg		93	70 - 130	0	30
1,2,3-Trichlorobenzene	0.0500	0.05007		mg/Kg		100	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0500	0.04802		mg/Kg		96	70 - 130	1	30
1,1,1-Trichloroethane	0.0500	0.04925		mg/Kg		99	70 - 130	3	30
1,1,2-Trichloroethane	0.0500	0.04892		mg/Kg		98	56 - 146	1	30
Trichloroethene	0.0500	0.05336		mg/Kg		107	70 - 130	4	30
Trichlorofluoromethane	0.0500	0.04945		mg/Kg		99	70 - 130	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-832915/5
Matrix: Solid
Analysis Batch: 832915

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
1,2,3-Trichloropropane			0.0500	0.05052		mg/Kg		101	64 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0500	0.05345		mg/Kg		107	70 - 130	9	40
1,2,4-Trimethylbenzene			0.0500	0.04814		mg/Kg		96	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0500	0.05080		mg/Kg		102	70 - 130	0	30
Vinyl acetate			0.100	0.08683		mg/Kg		87	53 - 150	4	30
Vinyl chloride			0.0500	0.04476		mg/Kg		90	70 - 130	10	30
o-Xylene			0.0500	0.04983		mg/Kg		100	70 - 130	1	30
m-Xylene & p-Xylene			0.0500	0.04973		mg/Kg		99	70 - 130	1	30
Xylenes, Total			0.100	0.09956		mg/Kg		100	70 - 130	0	30
Hexane			0.0500	0.05301		mg/Kg		106	70 - 130	7	30
n-Heptane			0.0500	0.05122		mg/Kg		102	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 130*
Dibromofluoromethane (Surr)	*98*		*65 - 130*
4-Bromofluorobenzene (Surr)	*100*		*65 - 130*

Client: Terracon Consultants, Inc.
Job ID: 680-249346-2
Project/Site: Tarheel Army Missile Plant

GC/MS VOA

Analysis Batch: 832697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-5	Spill Check-01	Total/NA	Solid	8260D	832720
680-249346-6	Spill Check-02	Total/NA	Solid	8260D	832720
680-249346-7	Spill Check-03	Total/NA	Solid	8260D	832720
MB 680-832697/9	Method Blank	Total/NA	Solid	8260D	
LCS 680-832697/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-832697/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 832720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-5	Spill Check-01	Total/NA	Solid	5035A	
680-249346-6	Spill Check-02	Total/NA	Solid	5035A	
680-249346-7	Spill Check-03	Total/NA	Solid	5035A	
680-249346-8	Frac Sludge	Total/NA	Solid	5035A	

Analysis Batch: 832915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-8	Frac Sludge	Total/NA	Solid	8260D	832720
680-249346-8	Frac Sludge	Total/NA	Solid	8260D	832720
MB 680-832915/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-832915/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-832915/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

General Chemistry

Analysis Batch: 832622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-5	Spill Check-01	Total/NA	Solid	Moisture	
680-249346-6	Spill Check-02	Total/NA	Solid	Moisture	
680-249346-7	Spill Check-03	Total/NA	Solid	Moisture	

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Spill Check-01
Lab Sample ID: 680-249346-5
Date Collected: 04/10/24 17:00
Matrix: Solid
Date Received: 04/11/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			832622	04/12/24 10:39	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Spill Check-01
Lab Sample ID: 680-249346-5
Date Collected: 04/10/24 17:00
Matrix: Solid
Date Received: 04/11/24 10:24
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			7.247 g	5 mL	832720	04/12/24 15:15	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	832697	04/12/24 20:39	MLL	EET SAV
	Instrument ID: CMSAD									

Client Sample ID: Spill Check-02
Lab Sample ID: 680-249346-6
Date Collected: 04/10/24 17:05
Matrix: Solid
Date Received: 04/11/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			832622	04/12/24 10:39	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Spill Check-02
Lab Sample ID: 680-249346-6
Date Collected: 04/10/24 17:05
Matrix: Solid
Date Received: 04/11/24 10:24
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.21 g	5 mL	832720	04/12/24 15:15	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	832697	04/12/24 21:01	MLL	EET SAV
	Instrument ID: CMSAD									

Client Sample ID: Spill Check-03
Lab Sample ID: 680-249346-7
Date Collected: 04/10/24 17:10
Matrix: Solid
Date Received: 04/11/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			832622	04/12/24 10:39	KG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: Spill Check-03
Lab Sample ID: 680-249346-7
Date Collected: 04/10/24 17:10
Matrix: Solid
Date Received: 04/11/24 10:24
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.987 g	5 mL	832720	04/12/24 15:15	FES	EET SAV
Total/NA	Analysis	8260D		1	5 g	5 g	832697	04/12/24 21:23	MLL	EET SAV
	Instrument ID: CMSAD									

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Client Sample ID: Frac Sludge
Date Collected: 04/10/24 16:55
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-8
Matrix: Solid
Percent Solids: 13.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			4.542 g	5 mL	832720	04/12/24 15:15	FES	EET SAV
Total/NA	Analysis	8260D		40	5 g	5 g	832915	04/15/24 14:41	MLL	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	5035A			4.542 g	5 mL	832720	04/12/24 15:15	FES	EET SAV
Total/NA	Analysis	8260D		250	5 g	5 g	832915	04/15/24 16:30	MLL	EET SAV
	Instrument ID: CMSAD									

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: 680-249346-2
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-2

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
5035A	Closed System Purge & Trap	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler: Ethan Dinwiddie	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-156111-55960.1
Client Contact: Mr. Ethan Dinwiddie	Phone: 828-550-5502	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site: TAMP	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	A		
MW-143	4/10/24	1410	G	W							X		
MW-144		1450		W							X		
MW-145		1550		W							X		
MW-146		1620		W							X		
Spill Check-01		1700		S			X						
Spill Check-02		1705		S			X						
Spill Check-03		1710		S			X						
Frac-Sludge		1655		Sludge			X		X				
DUP-GW-20240410		—		W									
TB-01-20240410	4/10/24	—	G	W							X		

680-249346 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C.Munoz	Date/Time: 4/11/24 1024	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-249346-2

Login Number: 249346

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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.	False	Refer to Job Narrative for details.
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

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JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-249346-3

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-249346-8	Frac Sludge	Solid	04/10/24 16:55	04/11/24 10:24

Job ID: 680-249346-3 **Eurofins Savannah**

Job Narrative
680-249346-3

Receipt
The samples were received on 4/11/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

GC/MS VOA
Method 8260D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-833090 recovered outside control limits for the following analyte: 2-Butanone (MEK). 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.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-3

Client Sample ID: Frac Sludge
Date Collected: 04/10/24 16:55
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-8
Matrix: Solid

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			04/16/24 18:30	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			04/16/24 18:30	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			04/16/24 18:30	20
2-Butanone (MEK)	<0.0680	*+	0.200	0.0680	mg/L			04/16/24 18:30	20
Benzene	<0.00860		0.0200	0.00860	mg/L			04/16/24 18:30	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			04/16/24 18:30	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			04/16/24 18:30	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			04/16/24 18:30	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			04/16/24 18:30	20
Tetrachloroethene	**0.0261**		0.0200	0.0150	mg/L			04/16/24 18:30	20
Trichloroethene	**1.09**		0.0200	0.00960	mg/L			04/16/24 18:30	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			04/16/24 18:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/16/24 18:30*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/16/24 18:30*	*20*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/16/24 18:30*	*20*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*04/16/24 18:30*	*20*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-3

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 680-833090/4
Matrix: Solid
Analysis Batch: 833090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			0.0500	0.05180		mg/L		104	70 - 130		
1,2-Dichloroethane			0.0500	0.05424		mg/L		108	70 - 130		
1,4-Dichlorobenzene			0.0500	0.05067		mg/L		101	70 - 130		
2-Butanone (MEK)			0.250	0.2988	*+	mg/L		120	69 - 114		
Benzene			0.0500	0.05037		mg/L		101	70 - 130		
Carbon tetrachloride			0.0500	0.05122		mg/L		102	70 - 130		
Chlorobenzene			0.0500	0.05286		mg/L		106	70 - 130		
Chloroform			0.0500	0.05384		mg/L		108	70 - 130		
Hexachlorobutadiene			0.0500	0.05275		mg/L		105	70 - 130		
Tetrachloroethene			0.0500	0.05233		mg/L		105	70 - 130		
Trichloroethene			0.0500	0.05448		mg/L		109	70 - 130		
Vinyl chloride			0.0500	0.04452		mg/L		89	66 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*

Lab Sample ID: LCSD 680-833090/5
Matrix: Solid
Analysis Batch: 833090

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-Dichloroethene			0.0500	0.05090		mg/L		102	70 - 130	2	20
1,2-Dichloroethane			0.0500	0.05482		mg/L		110	70 - 130	1	50
1,4-Dichlorobenzene			0.0500	0.04954		mg/L		99	70 - 130	2	30
2-Butanone (MEK)			0.250	0.3148	*+	mg/L		126	69 - 114	5	30
Benzene			0.0500	0.05048		mg/L		101	70 - 130	0	30
Carbon tetrachloride			0.0500	0.05018		mg/L		100	70 - 130	2	30
Chlorobenzene			0.0500	0.05293		mg/L		106	70 - 130	0	30
Chloroform			0.0500	0.05437		mg/L		109	70 - 130	1	30
Hexachlorobutadiene			0.0500	0.04944		mg/L		99	70 - 130	6	20
Tetrachloroethene			0.0500	0.05243		mg/L		105	70 - 130	0	30
Trichloroethene			0.0500	0.05425		mg/L		108	70 - 130	0	30
Vinyl chloride			0.0500	0.04327		mg/L		87	66 - 129	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 680-832127/1-A
Matrix: Solid
Analysis Batch: 833090

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			04/16/24 14:34	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			04/16/24 14:34	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			04/16/24 14:34	20
2-Butanone (MEK)	0.2153		0.200	0.0680	mg/L			04/16/24 14:34	20
Benzene	<0.00860		0.0200	0.00860	mg/L			04/16/24 14:34	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			04/16/24 14:34	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			04/16/24 14:34	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			04/16/24 14:34	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			04/16/24 14:34	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			04/16/24 14:34	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			04/16/24 14:34	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			04/16/24 14:34	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/16/24 14:34*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/16/24 14:34*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/16/24 14:34*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/16/24 14:34*	*20*

Lab Sample ID: LB 680-832717/1-A
Matrix: Solid
Analysis Batch: 833090

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00720		0.0200	0.00720	mg/L			04/16/24 14:55	20
1,2-Dichloroethane	<0.0100		0.0200	0.0100	mg/L			04/16/24 14:55	20
1,4-Dichlorobenzene	<0.00920		0.0200	0.00920	mg/L			04/16/24 14:55	20
2-Butanone (MEK)	<0.0680		0.200	0.0680	mg/L			04/16/24 14:55	20
Benzene	<0.00860		0.0200	0.00860	mg/L			04/16/24 14:55	20
Carbon tetrachloride	<0.00660		0.0200	0.00660	mg/L			04/16/24 14:55	20
Chlorobenzene	<0.00520		0.0200	0.00520	mg/L			04/16/24 14:55	20
Chloroform	<0.0100		0.0200	0.0100	mg/L			04/16/24 14:55	20
Hexachlorobutadiene	<0.0500		0.100	0.0500	mg/L			04/16/24 14:55	20
Tetrachloroethene	<0.0150		0.0200	0.0150	mg/L			04/16/24 14:55	20
Trichloroethene	<0.00960		0.0200	0.00960	mg/L			04/16/24 14:55	20
Vinyl chloride	<0.0100		0.0200	0.0100	mg/L			04/16/24 14:55	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/16/24 14:55*	*20*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/16/24 14:55*	*20*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/16/24 14:55*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*04/16/24 14:55*	*20*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-3

GC/MS VOA

Leach Batch: 832127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-832127/1-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 832717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-8	Frac Sludge	TCLP	Solid	1311	
LB 680-832717/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 833090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-8	Frac Sludge	TCLP	Solid	8260D	832717
LB 680-832127/1-A	Method Blank	TCLP	Solid	8260D	832127
LB 680-832717/1-A	Method Blank	TCLP	Solid	8260D	832717
LCS 680-833090/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-833090/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Lab Chronicle

Client: Terracon Consultants, Inc.
Job ID: 680-249346-3
Project/Site: Tarheel Army Missile Plant

Client Sample ID: Frac Sludge
Lab Sample ID: 680-249346-8
Date Collected: 04/10/24 16:55
Matrix: Solid
Date Received: 04/11/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.09 g	500 mL	832717	04/12/24 18:00	JJ	EET SAV
TCLP	Analysis	8260D		20	5 mL	5 mL	833090	04/16/24 18:30	P1C	EET SAV
	Instrument ID: CMSAJ									

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: 680-249346-3
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-3

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
1311	TCLP Extraction	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler: Ethan Dinwiddie	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-156111-55960.1
Client Contact: Mr. Ethan Dinwiddie	Phone: 828-550-5502	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site: TAMP	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	A		
MW-143	4/10/24	1410	G	W							X		
MW-144		1450		W							X		
MW-145		1550		W							X		
MW-146		1620		W							X		
Spill Check-01		1700		S			X						
Spill Check-02		1705		S			X						
Spill Check-03		1710		S			X						
Frac-Sludge		1655		Sludge			X		X				
DUP-GW-20240410		—		W									
TB-01-20240410	4/10/24	—	G	W							X		

680-249346 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 4/11/24 1024	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-249346-3

Login Number: 249346

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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.	False	Refer to Job Narrative for details.
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 4/17/2024 4:33:29 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-249346-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
4/17/2024 4:33:29 PM

Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

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.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-249346-1	MW-143	Water	04/10/24 14:10	04/11/24 10:24
680-249346-2	MW-144	Water	04/10/24 14:50	04/11/24 10:24
680-249346-3	MW-145	Water	04/10/24 15:50	04/11/24 10:24
680-249346-4	MW-146	Water	04/10/24 16:20	04/11/24 10:24
680-249346-9	DUP-GW-20240410	Water	04/10/24 00:00	04/11/24 10:24

Job ID: 680-249346-1 Eurofins Savannah

Job Narrative
680-249346-1

Receipt
The samples were received on 4/11/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

Receipt Exceptions
The Trip Blank listed on the Chain of Custody (COC) was not received.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-832894 recovered outside control limits for the following analyte: n-Heptane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-143 (680-249346-1), MW-144 (680-249346-2), MW-145 (680-249346-3) and DUP-GW-20240410 (680-249346-9). 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.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: MW-143
Date Collected: 04/10/24 14:10
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<37.0		100	37.0	ug/L			04/15/24 15:35	10
Benzene	<2.70		10.0	2.70	ug/L			04/15/24 15:35	10
Bromobenzene	<2.40		10.0	2.40	ug/L			04/15/24 15:35	10
Bromoform	<5.90		10.0	5.90	ug/L			04/15/24 15:35	10
Bromomethane	<37.0		50.0	37.0	ug/L			04/15/24 15:35	10
2-Butanone (MEK)	<64.0		100	64.0	ug/L			04/15/24 15:35	10
Carbon disulfide	<4.30		20.0	4.30	ug/L			04/15/24 15:35	10
Carbon tetrachloride	<3.00		10.0	3.00	ug/L			04/15/24 15:35	10
Chlorobenzene	<1.50		10.0	1.50	ug/L			04/15/24 15:35	10
Chlorobromomethane	<3.40		10.0	3.40	ug/L			04/15/24 15:35	10
Chlorodibromomethane	<3.90		10.0	3.90	ug/L			04/15/24 15:35	10
Chloroethane	<46.0		50.0	46.0	ug/L			04/15/24 15:35	10
Chloroform	<2.70		10.0	2.70	ug/L			04/15/24 15:35	10
Chloromethane	**7.50**	**J**	10.0	5.40	ug/L			04/15/24 15:35	10
2-Chlorotoluene	<2.50		10.0	2.50	ug/L			04/15/24 15:35	10
4-Chlorotoluene	<4.10		10.0	4.10	ug/L			04/15/24 15:35	10
cis-1,2-Dichloroethene	**22.4**		10.0	2.50	ug/L			04/15/24 15:35	10
cis-1,3-Dichloropropene	<2.60		10.0	2.60	ug/L			04/15/24 15:35	10
1,2-Dibromo-3-Chloropropane	<18.0		50.0	18.0	ug/L			04/15/24 15:35	10
Dibromomethane	<3.40		10.0	3.40	ug/L			04/15/24 15:35	10
1,2-Dichlorobenzene	<3.10		10.0	3.10	ug/L			04/15/24 15:35	10
1,3-Dichlorobenzene	<3.10		10.0	3.10	ug/L			04/15/24 15:35	10
1,4-Dichlorobenzene	<3.10		10.0	3.10	ug/L			04/15/24 15:35	10
Dichlorobromomethane	<2.50		10.0	2.50	ug/L			04/15/24 15:35	10
Dichlorodifluoromethane	<3.60		10.0	3.60	ug/L			04/15/24 15:35	10
1,1-Dichloroethane	<3.30		10.0	3.30	ug/L			04/15/24 15:35	10
1,2-Dichloroethane	<2.50		10.0	2.50	ug/L			04/15/24 15:35	10
1,1-Dichloroethene	<3.30		10.0	3.30	ug/L			04/15/24 15:35	10
1,2-Dichloropropane	<2.20		10.0	2.20	ug/L			04/15/24 15:35	10
1,3-Dichloropropane	<3.60		10.0	3.60	ug/L			04/15/24 15:35	10
2,2-Dichloropropane	<3.50		10.0	3.50	ug/L			04/15/24 15:35	10
1,1-Dichloropropene	<2.80		10.0	2.80	ug/L			04/15/24 15:35	10
Ethyl acetate	<50.0		100	50.0	ug/L			04/15/24 15:35	10
Ethylbenzene	<2.00		10.0	2.00	ug/L			04/15/24 15:35	10
Ethylene Dibromide	<3.30		10.0	3.30	ug/L			04/15/24 15:35	10
Hexachlorobutadiene	<2.20		50.0	2.20	ug/L			04/15/24 15:35	10
Hexane	<6.50		50.0	6.50	ug/L			04/15/24 15:35	10
2-Hexanone	<32.0		100	32.0	ug/L			04/15/24 15:35	10
Iodomethane	<39.0		100	39.0	ug/L			04/15/24 15:35	10
Isopropylbenzene	<2.60		10.0	2.60	ug/L			04/15/24 15:35	10
Isopropyl ether	<7.00		100	7.00	ug/L			04/15/24 15:35	10
4-Isopropyltoluene	<4.40		10.0	4.40	ug/L			04/15/24 15:35	10
Methylene Chloride	<32.0		50.0	32.0	ug/L			04/15/24 15:35	10
4-Methyl-2-pentanone (MIBK)	<27.0		100	27.0	ug/L			04/15/24 15:35	10
Methyl tert-butyl ether	<8.10		50.0	8.10	ug/L			04/15/24 15:35	10
m-Xylene & p-Xylene	<4.90		10.0	4.90	ug/L			04/15/24 15:35	10
Naphthalene	<24.0		50.0	24.0	ug/L			04/15/24 15:35	10
n-Butylbenzene	<5.20		10.0	5.20	ug/L			04/15/24 15:35	10
n-Heptane	<4.30	*+	10.0	4.30	ug/L			04/15/24 15:35	10

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: MW-143

Date Collected: 04/10/24 14:10
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<4.10		10.0	4.10	ug/L			04/15/24 15:35	10
o-Xylene	<2.60		10.0	2.60	ug/L			04/15/24 15:35	10
sec-Butylbenzene	<5.30		10.0	5.30	ug/L			04/15/24 15:35	10
Styrene	<2.70		10.0	2.70	ug/L			04/15/24 15:35	10
tert-Butylbenzene	<4.30		10.0	4.30	ug/L			04/15/24 15:35	10
1,1,1,2-Tetrachloroethane	<3.60		10.0	3.60	ug/L			04/15/24 15:35	10
1,1,2,2-Tetrachloroethane	<4.00		10.0	4.00	ug/L			04/15/24 15:35	10
Tetrachloroethene	**6.31**	**J**	10.0	3.50	ug/L			04/15/24 15:35	10
Toluene	<2.50		10.0	2.50	ug/L			04/15/24 15:35	10
trans-1,4-Dichloro-2-butene	<12.5		20.0	12.5	ug/L			04/15/24 15:35	10
trans-1,2-Dichloroethene	<3.40		10.0	3.40	ug/L			04/15/24 15:35	10
trans-1,3-Dichloropropene	<2.30		10.0	2.30	ug/L			04/15/24 15:35	10
1,2,3-Trichlorobenzene	<8.10		50.0	8.10	ug/L			04/15/24 15:35	10
1,2,4-Trichlorobenzene	<5.30		50.0	5.30	ug/L			04/15/24 15:35	10
1,1,1-Trichloroethane	<2.10		10.0	2.10	ug/L			04/15/24 15:35	10
1,1,2-Trichloroethane	<3.20		10.0	3.20	ug/L			04/15/24 15:35	10
Trichloroethene	**1850**		25.0	5.00	ug/L			04/15/24 16:55	25
Trichlorofluoromethane	<3.30		10.0	3.30	ug/L			04/15/24 15:35	10
1,2,3-Trichloropropane	<4.80		10.0	4.80	ug/L			04/15/24 15:35	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.30		10.0	2.30	ug/L			04/15/24 15:35	10
1,2,4-Trimethylbenzene	<4.30		10.0	4.30	ug/L			04/15/24 15:35	10
1,3,5-Trimethylbenzene	<2.80		10.0	2.80	ug/L			04/15/24 15:35	10
Vinyl acetate	<6.90		20.0	6.90	ug/L			04/15/24 15:35	10
Vinyl chloride	**11.8**		10.0	4.00	ug/L			04/15/24 15:35	10
Xylenes, Total	<2.30		10.0	2.30	ug/L			04/15/24 15:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/15/24 15:35*	*10*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/15/24 16:55*	*25*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/15/24 15:35*	*10*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/15/24 16:55*	*25*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*04/15/24 15:35*	*10*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*04/15/24 16:55*	*25*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/15/24 15:35*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/15/24 16:55*	*25*

Client Sample ID: MW-144

Date Collected: 04/10/24 14:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.40		20.0	7.40	ug/L			04/15/24 14:31	2
Benzene	<0.540		2.00	0.540	ug/L			04/15/24 14:31	2
Bromobenzene	<0.480		2.00	0.480	ug/L			04/15/24 14:31	2
Bromoform	<1.18		2.00	1.18	ug/L			04/15/24 14:31	2
Bromomethane	<7.40		10.0	7.40	ug/L			04/15/24 14:31	2
2-Butanone (MEK)	<12.8		20.0	12.8	ug/L			04/15/24 14:31	2
Carbon disulfide	<0.860		4.00	0.860	ug/L			04/15/24 14:31	2
Carbon tetrachloride	<0.600		2.00	0.600	ug/L			04/15/24 14:31	2

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: MW-144
Date Collected: 04/10/24 14:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.300		2.00	0.300	ug/L			04/15/24 14:31	2
Chlorobromomethane	<0.680		2.00	0.680	ug/L			04/15/24 14:31	2
Chlorodibromomethane	<0.780		2.00	0.780	ug/L			04/15/24 14:31	2
Chloroethane	<9.20		10.0	9.20	ug/L			04/15/24 14:31	2
Chloroform	<0.540		2.00	0.540	ug/L			04/15/24 14:31	2
Chloromethane	<1.08		2.00	1.08	ug/L			04/15/24 14:31	2
2-Chlorotoluene	<0.500		2.00	0.500	ug/L			04/15/24 14:31	2
4-Chlorotoluene	<0.820		2.00	0.820	ug/L			04/15/24 14:31	2
cis-1,2-Dichloroethene	**109**		2.00	0.500	ug/L			04/15/24 14:31	2
cis-1,3-Dichloropropene	<0.520		2.00	0.520	ug/L			04/15/24 14:31	2
1,2-Dibromo-3-Chloropropane	<3.60		10.0	3.60	ug/L			04/15/24 14:31	2
Dibromomethane	<0.680		2.00	0.680	ug/L			04/15/24 14:31	2
1,2-Dichlorobenzene	<0.620		2.00	0.620	ug/L			04/15/24 14:31	2
1,3-Dichlorobenzene	<0.620		2.00	0.620	ug/L			04/15/24 14:31	2
1,4-Dichlorobenzene	<0.620		2.00	0.620	ug/L			04/15/24 14:31	2
Dichlorobromomethane	<0.500		2.00	0.500	ug/L			04/15/24 14:31	2
Dichlorodifluoromethane	<0.720		2.00	0.720	ug/L			04/15/24 14:31	2
1,1-Dichloroethane	<0.660		2.00	0.660	ug/L			04/15/24 14:31	2
1,2-Dichloroethane	<0.500		2.00	0.500	ug/L			04/15/24 14:31	2
1,1-Dichloroethene	<0.660		2.00	0.660	ug/L			04/15/24 14:31	2
1,2-Dichloropropane	<0.440		2.00	0.440	ug/L			04/15/24 14:31	2
1,3-Dichloropropane	<0.720		2.00	0.720	ug/L			04/15/24 14:31	2
2,2-Dichloropropane	<0.700		2.00	0.700	ug/L			04/15/24 14:31	2
1,1-Dichloropropene	<0.560		2.00	0.560	ug/L			04/15/24 14:31	2
Ethyl acetate	<10.0		20.0	10.0	ug/L			04/15/24 14:31	2
Ethylbenzene	<0.400		2.00	0.400	ug/L			04/15/24 14:31	2
Ethylene Dibromide	<0.660		2.00	0.660	ug/L			04/15/24 14:31	2
Hexachlorobutadiene	<0.440		10.0	0.440	ug/L			04/15/24 14:31	2
Hexane	<1.30		10.0	1.30	ug/L			04/15/24 14:31	2
2-Hexanone	<6.40		20.0	6.40	ug/L			04/15/24 14:31	2
Iodomethane	<7.80		20.0	7.80	ug/L			04/15/24 14:31	2
Isopropylbenzene	<0.520		2.00	0.520	ug/L			04/15/24 14:31	2
Isopropyl ether	<1.40		20.0	1.40	ug/L			04/15/24 14:31	2
4-Isopropyltoluene	<0.880		2.00	0.880	ug/L			04/15/24 14:31	2
Methylene Chloride	<6.40		10.0	6.40	ug/L			04/15/24 14:31	2
4-Methyl-2-pentanone (MIBK)	<5.40		20.0	5.40	ug/L			04/15/24 14:31	2
Methyl tert-butyl ether	<1.62		10.0	1.62	ug/L			04/15/24 14:31	2
m-Xylene & p-Xylene	<0.980		2.00	0.980	ug/L			04/15/24 14:31	2
Naphthalene	<4.80		10.0	4.80	ug/L			04/15/24 14:31	2
n-Butylbenzene	<1.04		2.00	1.04	ug/L			04/15/24 14:31	2
n-Heptane	<0.860	*+	2.00	0.860	ug/L			04/15/24 14:31	2
N-Propylbenzene	<0.820		2.00	0.820	ug/L			04/15/24 14:31	2
o-Xylene	<0.520		2.00	0.520	ug/L			04/15/24 14:31	2
sec-Butylbenzene	<1.06		2.00	1.06	ug/L			04/15/24 14:31	2
Styrene	<0.540		2.00	0.540	ug/L			04/15/24 14:31	2
tert-Butylbenzene	<0.860		2.00	0.860	ug/L			04/15/24 14:31	2
1,1,1,2-Tetrachloroethane	<0.720		2.00	0.720	ug/L			04/15/24 14:31	2
1,1,2,2-Tetrachloroethane	<0.800		2.00	0.800	ug/L			04/15/24 14:31	2
Tetrachloroethene	**245**		2.00	0.700	ug/L			04/15/24 14:31	2

Client Sample ID: MW-144

Date Collected: 04/10/24 14:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.500		2.00	0.500	ug/L			04/15/24 14:31	2
trans-1,4-Dichloro-2-butene	<2.50		4.00	2.50	ug/L			04/15/24 14:31	2
trans-1,2-Dichloroethene	<0.680		2.00	0.680	ug/L			04/15/24 14:31	2
trans-1,3-Dichloropropene	<0.460		2.00	0.460	ug/L			04/15/24 14:31	2
1,2,3-Trichlorobenzene	<1.62		10.0	1.62	ug/L			04/15/24 14:31	2
1,2,4-Trichlorobenzene	<1.06		10.0	1.06	ug/L			04/15/24 14:31	2
1,1,1-Trichloroethane	<0.420		2.00	0.420	ug/L			04/15/24 14:31	2
1,1,2-Trichloroethane	**4.67**		2.00	0.640	ug/L			04/15/24 14:31	2
Trichloroethene	**375**		2.00	0.400	ug/L			04/15/24 14:31	2
Trichlorofluoromethane	<0.660		2.00	0.660	ug/L			04/15/24 14:31	2
1,2,3-Trichloropropane	<0.960		2.00	0.960	ug/L			04/15/24 14:31	2
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.460		2.00	0.460	ug/L			04/15/24 14:31	2
1,2,4-Trimethylbenzene	<0.860		2.00	0.860	ug/L			04/15/24 14:31	2
1,3,5-Trimethylbenzene	<0.560		2.00	0.560	ug/L			04/15/24 14:31	2
Vinyl acetate	<1.38		4.00	1.38	ug/L			04/15/24 14:31	2
Vinyl chloride	<0.800		2.00	0.800	ug/L			04/15/24 14:31	2
Xylenes, Total	<0.460		2.00	0.460	ug/L			04/15/24 14:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/15/24 14:31*	*2*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/15/24 14:31*	*2*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/15/24 14:31*	*2*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/15/24 14:31*	*2*

Client Sample ID: MW-145

Date Collected: 04/10/24 15:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**26.7**	**J**	50.0	18.5	ug/L			04/15/24 14:52	5
Benzene	**122**		5.00	1.35	ug/L			04/15/24 14:52	5
Bromobenzene	<1.20		5.00	1.20	ug/L			04/15/24 14:52	5
Bromoform	<2.95		5.00	2.95	ug/L			04/15/24 14:52	5
Bromomethane	<18.5		25.0	18.5	ug/L			04/15/24 14:52	5
2-Butanone (MEK)	<32.0		50.0	32.0	ug/L			04/15/24 14:52	5
Carbon disulfide	<2.15		10.0	2.15	ug/L			04/15/24 14:52	5
Carbon tetrachloride	<1.50		5.00	1.50	ug/L			04/15/24 14:52	5
Chlorobenzene	<0.750		5.00	0.750	ug/L			04/15/24 14:52	5
Chlorobromomethane	<1.70		5.00	1.70	ug/L			04/15/24 14:52	5
Chlorodibromomethane	<1.95		5.00	1.95	ug/L			04/15/24 14:52	5
Chloroethane	<23.0		25.0	23.0	ug/L			04/15/24 14:52	5
Chloroform	**3.19**	**J**	5.00	1.35	ug/L			04/15/24 14:52	5
Chloromethane	**4.43**	**J**	5.00	2.70	ug/L			04/15/24 14:52	5
2-Chlorotoluene	<1.25		5.00	1.25	ug/L			04/15/24 14:52	5
4-Chlorotoluene	<2.05		5.00	2.05	ug/L			04/15/24 14:52	5
cis-1,2-Dichloroethene	**774**		5.00	1.25	ug/L			04/15/24 14:52	5
cis-1,3-Dichloropropene	<1.30		5.00	1.30	ug/L			04/15/24 14:52	5
1,2-Dibromo-3-Chloropropane	<9.00		25.0	9.00	ug/L			04/15/24 14:52	5
Dibromomethane	<1.70		5.00	1.70	ug/L			04/15/24 14:52	5

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: MW-145
Date Collected: 04/10/24 15:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-3
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-Dichlorobenzene	<1.55		5.00	1.55	ug/L			04/15/24 14:52	5
1,3-Dichlorobenzene	<1.55		5.00	1.55	ug/L			04/15/24 14:52	5
1,4-Dichlorobenzene	<1.55		5.00	1.55	ug/L			04/15/24 14:52	5
Dichlorobromomethane	<1.25		5.00	1.25	ug/L			04/15/24 14:52	5
Dichlorodifluoromethane	<1.80		5.00	1.80	ug/L			04/15/24 14:52	5
1,1-Dichloroethane	**4.14**	**J**	5.00	1.65	ug/L			04/15/24 14:52	5
1,2-Dichloroethane	**22.7**		5.00	1.25	ug/L			04/15/24 14:52	5
1,1-Dichloroethene	**3.92**	**J**	5.00	1.65	ug/L			04/15/24 14:52	5
1,2-Dichloropropane	<1.10		5.00	1.10	ug/L			04/15/24 14:52	5
1,3-Dichloropropane	<1.80		5.00	1.80	ug/L			04/15/24 14:52	5
2,2-Dichloropropane	<1.75		5.00	1.75	ug/L			04/15/24 14:52	5
1,1-Dichloropropene	<1.40		5.00	1.40	ug/L			04/15/24 14:52	5
Ethyl acetate	<25.0		50.0	25.0	ug/L			04/15/24 14:52	5
Ethylbenzene	<1.00		5.00	1.00	ug/L			04/15/24 14:52	5
Ethylene Dibromide	<1.65		5.00	1.65	ug/L			04/15/24 14:52	5
Hexachlorobutadiene	<1.10		25.0	1.10	ug/L			04/15/24 14:52	5
Hexane	<3.25		25.0	3.25	ug/L			04/15/24 14:52	5
2-Hexanone	<16.0		50.0	16.0	ug/L			04/15/24 14:52	5
Iodomethane	<19.5		50.0	19.5	ug/L			04/15/24 14:52	5
Isopropylbenzene	**1.58**	**J**	5.00	1.30	ug/L			04/15/24 14:52	5
Isopropyl ether	**47.3**	**J**	50.0	3.50	ug/L			04/15/24 14:52	5
4-Isopropyltoluene	<2.20		5.00	2.20	ug/L			04/15/24 14:52	5
Methylene Chloride	<16.0		25.0	16.0	ug/L			04/15/24 14:52	5
4-Methyl-2-pentanone (MIBK)	<13.5		50.0	13.5	ug/L			04/15/24 14:52	5
Methyl tert-butyl ether	**955**		25.0	4.05	ug/L			04/15/24 14:52	5
m-Xylene & p-Xylene	<2.45		5.00	2.45	ug/L			04/15/24 14:52	5
Naphthalene	<12.0		25.0	12.0	ug/L			04/15/24 14:52	5
n-Butylbenzene	<2.60		5.00	2.60	ug/L			04/15/24 14:52	5
n-Heptane	<2.15	*+	5.00	2.15	ug/L			04/15/24 14:52	5
N-Propylbenzene	<2.05		5.00	2.05	ug/L			04/15/24 14:52	5
o-Xylene	<1.30		5.00	1.30	ug/L			04/15/24 14:52	5
sec-Butylbenzene	<2.65		5.00	2.65	ug/L			04/15/24 14:52	5
Styrene	<1.35		5.00	1.35	ug/L			04/15/24 14:52	5
tert-Butylbenzene	<2.15		5.00	2.15	ug/L			04/15/24 14:52	5
1,1,1,2-Tetrachloroethane	<1.80		5.00	1.80	ug/L			04/15/24 14:52	5
1,1,2,2-Tetrachloroethane	<2.00		5.00	2.00	ug/L			04/15/24 14:52	5
Tetrachloroethene	**534**		5.00	1.75	ug/L			04/15/24 14:52	5
Toluene	<1.25		5.00	1.25	ug/L			04/15/24 14:52	5
trans-1,4-Dichloro-2-butene	<6.25		10.0	6.25	ug/L			04/15/24 14:52	5
trans-1,2-Dichloroethene	**7.29**		5.00	1.70	ug/L			04/15/24 14:52	5
trans-1,3-Dichloropropene	<1.15		5.00	1.15	ug/L			04/15/24 14:52	5
1,2,3-Trichlorobenzene	<4.05		25.0	4.05	ug/L			04/15/24 14:52	5
1,2,4-Trichlorobenzene	<2.65		25.0	2.65	ug/L			04/15/24 14:52	5
1,1,1-Trichloroethane	<1.05		5.00	1.05	ug/L			04/15/24 14:52	5
1,1,2-Trichloroethane	**11.0**		5.00	1.60	ug/L			04/15/24 14:52	5
Trichloroethene	**935**		5.00	1.00	ug/L			04/15/24 14:52	5
Trichlorofluoromethane	**86.3**		5.00	1.65	ug/L			04/15/24 14:52	5
1,2,3-Trichloropropane	<2.40		5.00	2.40	ug/L			04/15/24 14:52	5
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.15		5.00	1.15	ug/L			04/15/24 14:52	5

Client Sample ID: MW-145

Lab Sample ID: 680-249346-3

Date Collected: 04/10/24 15:50

Matrix: Water

Date Received: 04/11/24 10:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<2.15		5.00	2.15	ug/L			04/15/24 14:52	5
1,3,5-Trimethylbenzene	<1.40		5.00	1.40	ug/L			04/15/24 14:52	5
Vinyl acetate	<3.45		10.0	3.45	ug/L			04/15/24 14:52	5
Vinyl chloride	<2.00		5.00	2.00	ug/L			04/15/24 14:52	5
Xylenes, Total	<1.15		5.00	1.15	ug/L			04/15/24 14:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/15/24 14:52*	*5*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*04/15/24 14:52*	*5*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*04/15/24 14:52*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/15/24 14:52*	*5*

Client Sample ID: MW-146

Lab Sample ID: 680-249346-4

Date Collected: 04/10/24 16:20

Matrix: Water

Date Received: 04/11/24 10:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			04/15/24 14:09	1
Benzene	<0.270		1.00	0.270	ug/L			04/15/24 14:09	1
Bromobenzene	<0.240		1.00	0.240	ug/L			04/15/24 14:09	1
Bromoform	<0.590		1.00	0.590	ug/L			04/15/24 14:09	1
Bromomethane	<3.70		5.00	3.70	ug/L			04/15/24 14:09	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			04/15/24 14:09	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			04/15/24 14:09	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			04/15/24 14:09	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			04/15/24 14:09	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			04/15/24 14:09	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			04/15/24 14:09	1
Chloroethane	<4.60		5.00	4.60	ug/L			04/15/24 14:09	1
Chloroform	**0.731**	**J**	1.00	0.270	ug/L			04/15/24 14:09	1
Chloromethane	<0.540		1.00	0.540	ug/L			04/15/24 14:09	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			04/15/24 14:09	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			04/15/24 14:09	1
cis-1,2-Dichloroethene	**1.01**		1.00	0.250	ug/L			04/15/24 14:09	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			04/15/24 14:09	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			04/15/24 14:09	1
Dibromomethane	<0.340		1.00	0.340	ug/L			04/15/24 14:09	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			04/15/24 14:09	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			04/15/24 14:09	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			04/15/24 14:09	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			04/15/24 14:09	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			04/15/24 14:09	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			04/15/24 14:09	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			04/15/24 14:09	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			04/15/24 14:09	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			04/15/24 14:09	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			04/15/24 14:09	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			04/15/24 14:09	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			04/15/24 14:09	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: MW-146
Date Collected: 04/10/24 16:20
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	<5.00		10.0	5.00	ug/L			04/15/24 14:09	1
Ethylbenzene	**0.299**	**J**	1.00	0.200	ug/L			04/15/24 14:09	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			04/15/24 14:09	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			04/15/24 14:09	1
Hexane	<0.650		5.00	0.650	ug/L			04/15/24 14:09	1
2-Hexanone	<3.20		10.0	3.20	ug/L			04/15/24 14:09	1
Iodomethane	<3.90		10.0	3.90	ug/L			04/15/24 14:09	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			04/15/24 14:09	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			04/15/24 14:09	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			04/15/24 14:09	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			04/15/24 14:09	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			04/15/24 14:09	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			04/15/24 14:09	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			04/15/24 14:09	1
Naphthalene	<2.40		5.00	2.40	ug/L			04/15/24 14:09	1
n-Butylbenzene	**0.616**	**J**	1.00	0.520	ug/L			04/15/24 14:09	1
n-Heptane	<0.430	*+	1.00	0.430	ug/L			04/15/24 14:09	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			04/15/24 14:09	1
o-Xylene	<0.260		1.00	0.260	ug/L			04/15/24 14:09	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			04/15/24 14:09	1
Styrene	<0.270		1.00	0.270	ug/L			04/15/24 14:09	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			04/15/24 14:09	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			04/15/24 14:09	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			04/15/24 14:09	1
Tetrachloroethene	**2.55**		1.00	0.350	ug/L			04/15/24 14:09	1
Toluene	<0.250		1.00	0.250	ug/L			04/15/24 14:09	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			04/15/24 14:09	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			04/15/24 14:09	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			04/15/24 14:09	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			04/15/24 14:09	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			04/15/24 14:09	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			04/15/24 14:09	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			04/15/24 14:09	1
Trichloroethene	**3.29**		1.00	0.200	ug/L			04/15/24 14:09	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			04/15/24 14:09	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			04/15/24 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			04/15/24 14:09	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			04/15/24 14:09	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			04/15/24 14:09	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			04/15/24 14:09	1
Vinyl chloride	**1.06**		1.00	0.400	ug/L			04/15/24 14:09	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			04/15/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/15/24 14:09*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/15/24 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/15/24 14:09*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*04/15/24 14:09*	*1*

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: DUP-GW-20240410
Date Collected: 04/10/24 00:00
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**62.9**	**J**	100	37.0	ug/L			04/15/24 15:13	10
Benzene	<2.70		10.0	2.70	ug/L			04/15/24 15:13	10
Bromobenzene	<2.40		10.0	2.40	ug/L			04/15/24 15:13	10
Bromoform	<5.90		10.0	5.90	ug/L			04/15/24 15:13	10
Bromomethane	<37.0		50.0	37.0	ug/L			04/15/24 15:13	10
2-Butanone (MEK)	<64.0		100	64.0	ug/L			04/15/24 15:13	10
Carbon disulfide	<4.30		20.0	4.30	ug/L			04/15/24 15:13	10
Carbon tetrachloride	<3.00		10.0	3.00	ug/L			04/15/24 15:13	10
Chlorobenzene	<1.50		10.0	1.50	ug/L			04/15/24 15:13	10
Chlorobromomethane	<3.40		10.0	3.40	ug/L			04/15/24 15:13	10
Chlorodibromomethane	<3.90		10.0	3.90	ug/L			04/15/24 15:13	10
Chloroethane	<46.0		50.0	46.0	ug/L			04/15/24 15:13	10
Chloroform	<2.70		10.0	2.70	ug/L			04/15/24 15:13	10
Chloromethane	<5.40		10.0	5.40	ug/L			04/15/24 15:13	10
2-Chlorotoluene	<2.50		10.0	2.50	ug/L			04/15/24 15:13	10
4-Chlorotoluene	<4.10		10.0	4.10	ug/L			04/15/24 15:13	10
cis-1,2-Dichloroethene	**33.1**		10.0	2.50	ug/L			04/15/24 15:13	10
cis-1,3-Dichloropropene	<2.60		10.0	2.60	ug/L			04/15/24 15:13	10
1,2-Dibromo-3-Chloropropane	<18.0		50.0	18.0	ug/L			04/15/24 15:13	10
Dibromomethane	<3.40		10.0	3.40	ug/L			04/15/24 15:13	10
1,2-Dichlorobenzene	<3.10		10.0	3.10	ug/L			04/15/24 15:13	10
1,3-Dichlorobenzene	<3.10		10.0	3.10	ug/L			04/15/24 15:13	10
1,4-Dichlorobenzene	<3.10		10.0	3.10	ug/L			04/15/24 15:13	10
Dichlorobromomethane	<2.50		10.0	2.50	ug/L			04/15/24 15:13	10
Dichlorodifluoromethane	<3.60		10.0	3.60	ug/L			04/15/24 15:13	10
1,1-Dichloroethane	<3.30		10.0	3.30	ug/L			04/15/24 15:13	10
1,2-Dichloroethane	<2.50		10.0	2.50	ug/L			04/15/24 15:13	10
1,1-Dichloroethene	<3.30		10.0	3.30	ug/L			04/15/24 15:13	10
1,2-Dichloropropane	<2.20		10.0	2.20	ug/L			04/15/24 15:13	10
1,3-Dichloropropane	<3.60		10.0	3.60	ug/L			04/15/24 15:13	10
2,2-Dichloropropane	<3.50		10.0	3.50	ug/L			04/15/24 15:13	10
1,1-Dichloropropene	<2.80		10.0	2.80	ug/L			04/15/24 15:13	10
Ethyl acetate	<50.0		100	50.0	ug/L			04/15/24 15:13	10
Ethylbenzene	<2.00		10.0	2.00	ug/L			04/15/24 15:13	10
Ethylene Dibromide	<3.30		10.0	3.30	ug/L			04/15/24 15:13	10
Hexachlorobutadiene	<2.20		50.0	2.20	ug/L			04/15/24 15:13	10
Hexane	<6.50		50.0	6.50	ug/L			04/15/24 15:13	10
2-Hexanone	<32.0		100	32.0	ug/L			04/15/24 15:13	10
Iodomethane	<39.0		100	39.0	ug/L			04/15/24 15:13	10
Isopropylbenzene	<2.60		10.0	2.60	ug/L			04/15/24 15:13	10
Isopropyl ether	<7.00		100	7.00	ug/L			04/15/24 15:13	10
4-Isopropyltoluene	<4.40		10.0	4.40	ug/L			04/15/24 15:13	10
Methylene Chloride	<32.0		50.0	32.0	ug/L			04/15/24 15:13	10
4-Methyl-2-pentanone (MIBK)	<27.0		100	27.0	ug/L			04/15/24 15:13	10
Methyl tert-butyl ether	<8.10		50.0	8.10	ug/L			04/15/24 15:13	10
m-Xylene & p-Xylene	<4.90		10.0	4.90	ug/L			04/15/24 15:13	10
Naphthalene	<24.0		50.0	24.0	ug/L			04/15/24 15:13	10
n-Butylbenzene	<5.20		10.0	5.20	ug/L			04/15/24 15:13	10
n-Heptane	<4.30	*+	10.0	4.30	ug/L			04/15/24 15:13	10

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: DUP-GW-20240410
Date Collected: 04/10/24 00:00
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<4.10		10.0	4.10	ug/L			04/15/24 15:13	10
o-Xylene	<2.60		10.0	2.60	ug/L			04/15/24 15:13	10
sec-Butylbenzene	<5.30		10.0	5.30	ug/L			04/15/24 15:13	10
Styrene	<2.70		10.0	2.70	ug/L			04/15/24 15:13	10
tert-Butylbenzene	<4.30		10.0	4.30	ug/L			04/15/24 15:13	10
1,1,1,2-Tetrachloroethane	<3.60		10.0	3.60	ug/L			04/15/24 15:13	10
1,1,2,2-Tetrachloroethane	<4.00		10.0	4.00	ug/L			04/15/24 15:13	10
Tetrachloroethene	**17.4**		10.0	3.50	ug/L			04/15/24 15:13	10
Toluene	<2.50		10.0	2.50	ug/L			04/15/24 15:13	10
trans-1,4-Dichloro-2-butene	<12.5		20.0	12.5	ug/L			04/15/24 15:13	10
trans-1,2-Dichloroethene	<3.40		10.0	3.40	ug/L			04/15/24 15:13	10
trans-1,3-Dichloropropene	<2.30		10.0	2.30	ug/L			04/15/24 15:13	10
1,2,3-Trichlorobenzene	<8.10		50.0	8.10	ug/L			04/15/24 15:13	10
1,2,4-Trichlorobenzene	<5.30		50.0	5.30	ug/L			04/15/24 15:13	10
1,1,1-Trichloroethane	<2.10		10.0	2.10	ug/L			04/15/24 15:13	10
1,1,2-Trichloroethane	<3.20		10.0	3.20	ug/L			04/15/24 15:13	10
Trichloroethene	**1850**		25.0	5.00	ug/L			04/15/24 16:34	25
Trichlorofluoromethane	<3.30		10.0	3.30	ug/L			04/15/24 15:13	10
1,2,3-Trichloropropane	<4.80		10.0	4.80	ug/L			04/15/24 15:13	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.30		10.0	2.30	ug/L			04/15/24 15:13	10
1,2,4-Trimethylbenzene	<4.30		10.0	4.30	ug/L			04/15/24 15:13	10
1,3,5-Trimethylbenzene	<2.80		10.0	2.80	ug/L			04/15/24 15:13	10
Vinyl acetate	<6.90		20.0	6.90	ug/L			04/15/24 15:13	10
Vinyl chloride	**13.6**		10.0	4.00	ug/L			04/15/24 15:13	10
Xylenes, Total	<2.30		10.0	2.30	ug/L			04/15/24 15:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/15/24 15:13*	*10*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*04/15/24 16:34*	*25*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/15/24 15:13*	*10*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/15/24 16:34*	*25*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*04/15/24 15:13*	*10*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/15/24 16:34*	*25*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/15/24 15:13*	*10*
Toluene-d8 (Surr)	*105*		*70 - 130*		*04/15/24 16:34*	*25*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-832894/10
Matrix: Water
Analysis Batch: 832894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.70		10.0	3.70	ug/L			04/15/24 13:21	1
Benzene	<0.270		1.00	0.270	ug/L			04/15/24 13:21	1
Bromobenzene	<0.240		1.00	0.240	ug/L			04/15/24 13:21	1
Bromoform	<0.590		1.00	0.590	ug/L			04/15/24 13:21	1
Bromomethane	<3.70		5.00	3.70	ug/L			04/15/24 13:21	1
2-Butanone (MEK)	<6.40		10.0	6.40	ug/L			04/15/24 13:21	1
Carbon disulfide	<0.430		2.00	0.430	ug/L			04/15/24 13:21	1
Carbon tetrachloride	<0.300		1.00	0.300	ug/L			04/15/24 13:21	1
Chlorobenzene	<0.150		1.00	0.150	ug/L			04/15/24 13:21	1
Chlorobromomethane	<0.340		1.00	0.340	ug/L			04/15/24 13:21	1
Chlorodibromomethane	<0.390		1.00	0.390	ug/L			04/15/24 13:21	1
Chloroethane	<4.60		5.00	4.60	ug/L			04/15/24 13:21	1
Chloroform	<0.270		1.00	0.270	ug/L			04/15/24 13:21	1
Chloromethane	<0.540		1.00	0.540	ug/L			04/15/24 13:21	1
2-Chlorotoluene	<0.250		1.00	0.250	ug/L			04/15/24 13:21	1
4-Chlorotoluene	<0.410		1.00	0.410	ug/L			04/15/24 13:21	1
cis-1,2-Dichloroethene	<0.250		1.00	0.250	ug/L			04/15/24 13:21	1
cis-1,3-Dichloropropene	<0.260		1.00	0.260	ug/L			04/15/24 13:21	1
1,2-Dibromo-3-Chloropropane	<1.80		5.00	1.80	ug/L			04/15/24 13:21	1
Dibromomethane	<0.340		1.00	0.340	ug/L			04/15/24 13:21	1
1,2-Dichlorobenzene	<0.310		1.00	0.310	ug/L			04/15/24 13:21	1
1,3-Dichlorobenzene	<0.310		1.00	0.310	ug/L			04/15/24 13:21	1
1,4-Dichlorobenzene	<0.310		1.00	0.310	ug/L			04/15/24 13:21	1
Dichlorobromomethane	<0.250		1.00	0.250	ug/L			04/15/24 13:21	1
Dichlorodifluoromethane	<0.360		1.00	0.360	ug/L			04/15/24 13:21	1
1,1-Dichloroethane	<0.330		1.00	0.330	ug/L			04/15/24 13:21	1
1,2-Dichloroethane	<0.250		1.00	0.250	ug/L			04/15/24 13:21	1
1,1-Dichloroethene	<0.330		1.00	0.330	ug/L			04/15/24 13:21	1
1,2-Dichloropropane	<0.220		1.00	0.220	ug/L			04/15/24 13:21	1
1,3-Dichloropropane	<0.360		1.00	0.360	ug/L			04/15/24 13:21	1
2,2-Dichloropropane	<0.350		1.00	0.350	ug/L			04/15/24 13:21	1
1,1-Dichloropropene	<0.280		1.00	0.280	ug/L			04/15/24 13:21	1
Ethyl acetate	<5.00		10.0	5.00	ug/L			04/15/24 13:21	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			04/15/24 13:21	1
Ethylene Dibromide	<0.330		1.00	0.330	ug/L			04/15/24 13:21	1
Hexachlorobutadiene	<0.220		5.00	0.220	ug/L			04/15/24 13:21	1
Hexane	<0.650		5.00	0.650	ug/L			04/15/24 13:21	1
2-Hexanone	<3.20		10.0	3.20	ug/L			04/15/24 13:21	1
Iodomethane	<3.90		10.0	3.90	ug/L			04/15/24 13:21	1
Isopropylbenzene	<0.260		1.00	0.260	ug/L			04/15/24 13:21	1
Isopropyl ether	<0.700		10.0	0.700	ug/L			04/15/24 13:21	1
4-Isopropyltoluene	<0.440		1.00	0.440	ug/L			04/15/24 13:21	1
Methylene Chloride	<3.20		5.00	3.20	ug/L			04/15/24 13:21	1
4-Methyl-2-pentanone (MIBK)	<2.70		10.0	2.70	ug/L			04/15/24 13:21	1
Methyl tert-butyl ether	<0.810		5.00	0.810	ug/L			04/15/24 13:21	1
m-Xylene & p-Xylene	<0.490		1.00	0.490	ug/L			04/15/24 13:21	1
Naphthalene	<2.40		5.00	2.40	ug/L			04/15/24 13:21	1
n-Butylbenzene	<0.520		1.00	0.520	ug/L			04/15/24 13:21	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-832894/10
Matrix: Water
Analysis Batch: 832894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	<0.430		1.00	0.430	ug/L			04/15/24 13:21	1
N-Propylbenzene	<0.410		1.00	0.410	ug/L			04/15/24 13:21	1
o-Xylene	<0.260		1.00	0.260	ug/L			04/15/24 13:21	1
sec-Butylbenzene	<0.530		1.00	0.530	ug/L			04/15/24 13:21	1
Styrene	<0.270		1.00	0.270	ug/L			04/15/24 13:21	1
tert-Butylbenzene	<0.430		1.00	0.430	ug/L			04/15/24 13:21	1
1,1,1,2-Tetrachloroethane	<0.360		1.00	0.360	ug/L			04/15/24 13:21	1
1,1,2,2-Tetrachloroethane	<0.400		1.00	0.400	ug/L			04/15/24 13:21	1
Tetrachloroethene	<0.350		1.00	0.350	ug/L			04/15/24 13:21	1
Toluene	<0.250		1.00	0.250	ug/L			04/15/24 13:21	1
trans-1,4-Dichloro-2-butene	<1.25		2.00	1.25	ug/L			04/15/24 13:21	1
trans-1,2-Dichloroethene	<0.340		1.00	0.340	ug/L			04/15/24 13:21	1
trans-1,3-Dichloropropene	<0.230		1.00	0.230	ug/L			04/15/24 13:21	1
1,2,3-Trichlorobenzene	<0.810		5.00	0.810	ug/L			04/15/24 13:21	1
1,2,4-Trichlorobenzene	<0.530		5.00	0.530	ug/L			04/15/24 13:21	1
1,1,1-Trichloroethane	<0.210		1.00	0.210	ug/L			04/15/24 13:21	1
1,1,2-Trichloroethane	<0.320		1.00	0.320	ug/L			04/15/24 13:21	1
Trichloroethene	<0.200		1.00	0.200	ug/L			04/15/24 13:21	1
Trichlorofluoromethane	<0.330		1.00	0.330	ug/L			04/15/24 13:21	1
1,2,3-Trichloropropane	<0.480		1.00	0.480	ug/L			04/15/24 13:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.230		1.00	0.230	ug/L			04/15/24 13:21	1
1,2,4-Trimethylbenzene	<0.430		1.00	0.430	ug/L			04/15/24 13:21	1
1,3,5-Trimethylbenzene	<0.280		1.00	0.280	ug/L			04/15/24 13:21	1
Vinyl acetate	<0.690		2.00	0.690	ug/L			04/15/24 13:21	1
Vinyl chloride	<0.400		1.00	0.400	ug/L			04/15/24 13:21	1
Xylenes, Total	<0.230		1.00	0.230	ug/L			04/15/24 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*04/15/24 13:21*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/15/24 13:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*04/15/24 13:21*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/15/24 13:21*	*1*

Lab Sample ID: LCS 680-832894/6
Matrix: Water
Analysis Batch: 832894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	237.0		ug/L		95	67 - 120
Benzene	50.0	50.96		ug/L		102	70 - 130
Bromobenzene	50.0	48.94		ug/L		98	70 - 130
Bromoform	50.0	42.86		ug/L		86	69 - 129
Bromomethane	50.0	28.73		ug/L		57	28 - 192
2-Butanone (MEK)	250	232.4		ug/L		93	69 - 120
Carbon disulfide	50.0	51.28		ug/L		103	70 - 130
Carbon tetrachloride	50.0	54.44		ug/L		109	70 - 130
Chlorobenzene	50.0	53.45		ug/L		107	70 - 130
Chlorobromomethane	50.0	47.39		ug/L		95	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-832894/6
Matrix: Water
Analysis Batch: 832894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	50.0	45.64		ug/L		91	70 - 130
Chloroethane	50.0	49.43		ug/L		99	31 - 213
Chloroform	50.0	50.09		ug/L		100	70 - 130
Chloromethane	50.0	48.27		ug/L		97	59 - 127
2-Chlorotoluene	50.0	50.37		ug/L		101	70 - 130
4-Chlorotoluene	50.0	49.31		ug/L		99	70 - 130
cis-1,2-Dichloroethene	50.0	51.50		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	48.78		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.50		ug/L		93	70 - 130
Dibromomethane	50.0	46.67		ug/L		93	70 - 130
1,2-Dichlorobenzene	50.0	53.66		ug/L		107	70 - 130
1,3-Dichlorobenzene	50.0	54.34		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	52.36		ug/L		105	70 - 130
Dichlorobromomethane	50.0	47.47		ug/L		95	70 - 130
Dichlorodifluoromethane	50.0	57.04		ug/L		114	70 - 130
1,1-Dichloroethane	50.0	48.99		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	48.59		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	48.06		ug/L		96	70 - 130
1,2-Dichloropropane	50.0	51.96		ug/L		104	70 - 130
1,3-Dichloropropane	50.0	49.43		ug/L		99	70 - 130
2,2-Dichloropropane	50.0	51.08		ug/L		102	70 - 130
1,1-Dichloropropene	50.0	60.29		ug/L		121	70 - 130
Ethylbenzene	50.0	54.85		ug/L		110	70 - 130
Ethylene Dibromide	50.0	47.74		ug/L		95	70 - 130
Hexachlorobutadiene	50.0	58.85		ug/L		118	70 - 130
Hexane	50.0	60.63		ug/L		121	70 - 130
2-Hexanone	250	259.8		ug/L		104	70 - 130
Iodomethane	50.0	38.38		ug/L		77	52 - 129
Isopropylbenzene	50.0	55.72		ug/L		111	70 - 130
4-Isopropyltoluene	50.0	60.58		ug/L		121	70 - 130
Methylene Chloride	50.0	45.74		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	250	254.8		ug/L		102	68 - 120
Methyl tert-butyl ether	50.0	50.98		ug/L		102	70 - 130
m-Xylene & p-Xylene	50.0	54.42		ug/L		109	70 - 130
Naphthalene	50.0	50.45		ug/L		101	57 - 149
n-Butylbenzene	50.0	61.89		ug/L		124	70 - 130
n-Heptane	50.0	66.04	*+	ug/L		132	65 - 120
N-Propylbenzene	50.0	54.11		ug/L		108	70 - 130
o-Xylene	50.0	52.19		ug/L		104	70 - 130
sec-Butylbenzene	50.0	54.09		ug/L		108	70 - 130
Styrene	50.0	54.58		ug/L		109	70 - 130
tert-Butylbenzene	50.0	53.59		ug/L		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.27		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.06		ug/L		112	70 - 130
Tetrachloroethene	50.0	58.63		ug/L		117	70 - 130
Toluene	50.0	55.34		ug/L		111	70 - 130
trans-1,4-Dichloro-2-butene	50.0	46.02		ug/L		92	67 - 120
trans-1,2-Dichloroethene	50.0	54.37		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	49.82		ug/L		100	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-832894/6
Matrix: Water
Analysis Batch: 832894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	54.31		ug/L		109	61 - 141
1,2,4-Trichlorobenzene	50.0	54.88		ug/L		110	70 - 130
1,1,1-Trichloroethane	50.0	55.05		ug/L		110	70 - 130
1,1,2-Trichloroethane	50.0	49.28		ug/L		99	70 - 130
Trichloroethene	50.0	50.10		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	60.03		ug/L		120	63 - 142
1,2,3-Trichloropropane	50.0	48.35		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.95		ug/L		114	63 - 141
1,2,4-Trimethylbenzene	50.0	51.29		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	50.0	53.54		ug/L		107	70 - 130
Vinyl acetate	100	95.51		ug/L		96	67 - 135
Vinyl chloride	50.0	47.36		ug/L		95	66 - 129
Xylenes, Total	100	106.6		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-832894/7
Matrix: Water
Analysis Batch: 832894

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
Acetone	250	238.4		ug/L		95	67 - 120	1	30
Benzene	50.0	50.78		ug/L		102	70 - 130	0	30
Bromobenzene	50.0	50.44		ug/L		101	70 - 130	3	30
Bromoform	50.0	43.93		ug/L		88	69 - 129	2	30
Bromomethane	50.0	33.28		ug/L		67	28 - 192	15	30
2-Butanone (MEK)	250	240.3		ug/L		96	69 - 120	3	30
Carbon disulfide	50.0	50.10		ug/L		100	70 - 130	2	30
Carbon tetrachloride	50.0	54.04		ug/L		108	70 - 130	1	30
Chlorobenzene	50.0	53.24		ug/L		106	70 - 130	0	30
Chlorobromomethane	50.0	47.82		ug/L		96	70 - 130	1	30
Chlorodibromomethane	50.0	45.34		ug/L		91	70 - 130	1	30
Chloroethane	50.0	49.48		ug/L		99	31 - 213	0	30
Chloroform	50.0	50.38		ug/L		101	70 - 130	1	30
Chloromethane	50.0	47.60		ug/L		95	59 - 127	1	30
2-Chlorotoluene	50.0	51.69		ug/L		103	70 - 130	3	30
4-Chlorotoluene	50.0	50.87		ug/L		102	70 - 130	3	30
cis-1,2-Dichloroethene	50.0	51.12		ug/L		102	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	48.43		ug/L		97	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	47.92		ug/L		96	70 - 130	3	30
Dibromomethane	50.0	47.33		ug/L		95	70 - 130	1	30
1,2-Dichlorobenzene	50.0	55.08		ug/L		110	70 - 130	3	30
1,3-Dichlorobenzene	50.0	54.51		ug/L		109	70 - 130	0	30
1,4-Dichlorobenzene	50.0	52.00		ug/L		104	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-832894/7
Matrix: Water
Analysis Batch: 832894

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
Dichlorobromomethane	50.0	49.79		ug/L		100	70 - 130	5	30
Dichlorodifluoromethane	50.0	56.78		ug/L		114	70 - 130	0	40
1,1-Dichloroethane	50.0	49.15		ug/L		98	70 - 130	0	30
1,2-Dichloroethane	50.0	48.95		ug/L		98	70 - 130	1	50
1,1-Dichloroethene	50.0	45.41		ug/L		91	70 - 130	6	20
1,2-Dichloropropane	50.0	51.37		ug/L		103	70 - 130	1	20
1,3-Dichloropropane	50.0	50.05		ug/L		100	70 - 130	1	20
2,2-Dichloropropane	50.0	50.93		ug/L		102	70 - 130	0	20
1,1-Dichloropropene	50.0	58.75		ug/L		118	70 - 130	3	20
Ethylbenzene	50.0	55.15		ug/L		110	70 - 130	1	20
Ethylene Dibromide	50.0	49.48		ug/L		99	70 - 130	4	30
Hexachlorobutadiene	50.0	57.91		ug/L		116	70 - 130	2	20
Hexane	50.0	64.11		ug/L		128	70 - 130	6	30
2-Hexanone	250	265.4		ug/L		106	70 - 130	2	20
Iodomethane	50.0	38.86		ug/L		78	52 - 129	1	30
Isopropylbenzene	50.0	56.20		ug/L		112	70 - 130	1	30
4-Isopropyltoluene	50.0	60.31		ug/L		121	70 - 130	0	30
Methylene Chloride	50.0	46.22		ug/L		92	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	250	260.2		ug/L		104	68 - 120	2	30
Methyl tert-butyl ether	50.0	51.72		ug/L		103	70 - 130	1	30
m-Xylene & p-Xylene	50.0	54.59		ug/L		109	70 - 130	0	30
Naphthalene	50.0	48.45		ug/L		97	57 - 149	4	30
n-Butylbenzene	50.0	61.09		ug/L		122	70 - 130	1	30
n-Heptane	50.0	64.71	*+	ug/L		129	65 - 120	2	30
N-Propylbenzene	50.0	55.38		ug/L		111	70 - 130	2	30
o-Xylene	50.0	52.62		ug/L		105	70 - 130	1	30
sec-Butylbenzene	50.0	55.50		ug/L		111	70 - 130	3	30
Styrene	50.0	55.07		ug/L		110	70 - 130	1	30
tert-Butylbenzene	50.0	55.24		ug/L		110	70 - 130	3	30
1,1,1,2-Tetrachloroethane	50.0	50.87		ug/L		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	57.14		ug/L		114	70 - 130	2	30
Tetrachloroethene	50.0	58.03		ug/L		116	70 - 130	1	30
Toluene	50.0	53.23		ug/L		106	70 - 130	4	30
trans-1,4-Dichloro-2-butene	50.0	49.29		ug/L		99	67 - 120	7	30
trans-1,2-Dichloroethene	50.0	52.64		ug/L		105	70 - 130	3	30
trans-1,3-Dichloropropene	50.0	50.08		ug/L		100	70 - 130	1	30
1,2,3-Trichlorobenzene	50.0	53.85		ug/L		108	61 - 141	1	30
1,2,4-Trichlorobenzene	50.0	54.07		ug/L		108	70 - 130	1	30
1,1,1-Trichloroethane	50.0	54.79		ug/L		110	70 - 130	0	30
1,1,2-Trichloroethane	50.0	49.90		ug/L		100	70 - 130	1	30
Trichloroethene	50.0	49.08		ug/L		98	70 - 130	2	30
Trichlorofluoromethane	50.0	59.60		ug/L		119	63 - 142	1	30
1,2,3-Trichloropropane	50.0	51.90		ug/L		104	70 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.71		ug/L		115	63 - 141	1	30
1,2,4-Trimethylbenzene	50.0	52.26		ug/L		105	70 - 130	2	30
1,3,5-Trimethylbenzene	50.0	53.30		ug/L		107	70 - 130	0	30
Vinyl acetate	100	96.81		ug/L		97	67 - 135	1	30
Vinyl chloride	50.0	46.85		ug/L		94	66 - 129	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-832894/7
Matrix: Water
Analysis Batch: 832894

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
Xylenes, Total			100	107.2		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
Toluene-d8 (Surr)	*103*		*70 - 130*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

GC/MS VOA

Analysis Batch: 832894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249346-1	MW-143	Total/NA	Water	8260D	
680-249346-1	MW-143	Total/NA	Water	8260D	
680-249346-2	MW-144	Total/NA	Water	8260D	
680-249346-3	MW-145	Total/NA	Water	8260D	
680-249346-4	MW-146	Total/NA	Water	8260D	
680-249346-9	DUP-GW-20240410	Total/NA	Water	8260D	
680-249346-9	DUP-GW-20240410	Total/NA	Water	8260D	
MB 680-832894/10	Method Blank	Total/NA	Water	8260D	
LCS 680-832894/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-832894/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Client Sample ID: MW-143

Date Collected: 04/10/24 14:10
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	832894	04/15/24 15:35	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		25	5 mL	5 mL	832894	04/15/24 16:55	MLL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-144

Date Collected: 04/10/24 14:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	832894	04/15/24 14:31	MLL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-145

Date Collected: 04/10/24 15:50
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	832894	04/15/24 14:52	MLL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-146

Date Collected: 04/10/24 16:20
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-4

Matrix: Water

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	832894	04/15/24 14:09	MLL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: DUP-GW-20240410

Date Collected: 04/10/24 00:00
Date Received: 04/11/24 10:24

Lab Sample ID: 680-249346-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	832894	04/15/24 15:13	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		25	5 mL	5 mL	832894	04/15/24 16:34	MLL	EET SAV
	Instrument ID: CMSB									

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: 680-249346-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-249346-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

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Client Information	Sampler: Ethan Dinwiddie	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-156111-55960.1
Client Contact: Mr. Ethan Dinwiddie	Phone: 828-550-5502	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: Terracon Consultants, Inc.	PWSID:			Job #:
Address: 2401 Brentwood Road Suite 107	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site: TAMP	SSOW#:			

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)	8260D - VOCs-NC 02L List - Soil	8270E - SVOCs	8260D - TCLP VOCs	8270E - TCLP SVOCs	8260D - VOCs-NC 02L List - Water											Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	A												
MW-143	4/10/24	1410	G	W							X												
MW-144		1450		W							X												
MW-145		1550		W							X												
MW-146		1620		W							X												
Spill Check-01		1700		S			X																
Spill Check-02		1705		S			X																
Spill Check-03		1710		S			X																
Frac-Sludge		1655		Sludge			X		X														
DUP-GW-20240410		—		W																			
TB-01-20240410	4/10/24	—	G	W							X												

680-249346 Chain of Custody

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/11/24 1024	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-249346-1

Login Number: 249346

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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.	False	Refer to Job Narrative for details.
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Ethan Dinwiddie
Terracon Consultants, Inc.
2401 Brentwood Road
Suite 107
Raleigh, North Carolina 27604

Generated 5/21/2024 5:04:06 PM

JOB DESCRIPTION

Tarheel Army Missile Plant

JOB NUMBER

680-250515-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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5/21/2024 5:04:06 PM

Authorized for release by
Chad Bechtold, Project Manager
Chad.Bechtold@et.eurofinsus.com
(813)690-3563

Definitions/Glossary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

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

Sample Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-250515-1	MW-148	Water	05/08/24 15:45	05/09/24 10:53
680-250515-2	MW-147	Water	05/08/24 16:05	05/09/24 10:53
680-250515-3	MW-142	Water	05/08/24 16:35	05/09/24 10:53
680-250515-4	DUP-GW-20240508	Water	05/08/24 00:00	05/09/24 10:53

Job ID: 680-250515-1 Eurofins Savannah

Job Narrative
680-250515-1

Receipt
The samples were received on 5/9/2024 10:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

GC/MS VOA
Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-836362 was outside method criteria for the following analytes: Bromoform, Carbon disulfide, Hexane and Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-837880 was outside method criteria for the following analytes: Dichlorodifluoromethane and Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-838498 recovered above the upper control limit for Bromoform, Trichlorofluoromethane and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-838498 recovered outside acceptance criteria, low biased, for Bromomethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-838498 recovered outside control limits for the following analytes: Bromoform, Trichlorofluoromethane and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification closing (CCVC) associated with batch 680-838498 recovered outside acceptance criteria, low biased, for Iodomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data are reported.

Method 8260D_DOD5: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-838498.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-838791 recovered above the upper control limit for Bromomethane and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; 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.

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Client Sample ID: MW-148
Date Collected: 05/08/24 15:45
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	25	3.7	ug/L			05/17/24 17:54	1
Benzene	1.0	U	2.0	0.27	ug/L			05/17/24 17:54	1
Bromobenzene	0.50	U	1.0	0.24	ug/L			05/17/24 17:54	1
Bromoform	2.0	U Q	2.5	0.59	ug/L			05/17/24 17:54	1
Bromomethane	10	U Q	20	3.7	ug/L			05/17/24 17:54	1
2-Butanone (MEK)	20	U	25	6.4	ug/L			05/17/24 17:54	1
Carbon disulfide	1.0	U Q	2.0	0.43	ug/L			05/17/24 17:54	1
Carbon tetrachloride	1.0	U M	2.0	0.30	ug/L			05/17/24 17:54	1
Chlorobenzene	0.50	U	1.0	0.15	ug/L			05/17/24 17:54	1
Chlorobromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 17:54	1
Chlorodibromomethane	1.0	U	2.0	0.39	ug/L			05/17/24 17:54	1
Chloroethane	10	U	20	4.6	ug/L			05/17/24 17:54	1
Chloroform	**4.6**		2.0	0.27	ug/L			05/17/24 17:54	1
Chloromethane	2.0	U M	2.5	0.54	ug/L			05/17/24 17:54	1
2-Chlorotoluene	0.50	U	1.0	0.25	ug/L			05/17/24 17:54	1
4-Chlorotoluene	1.0	U	2.0	0.41	ug/L			05/17/24 17:54	1
cis-1,2-Dichloroethene	1.0	U	2.0	0.25	ug/L			05/17/24 17:54	1
cis-1,3-Dichloropropene	1.0	U	2.0	0.26	ug/L			05/17/24 17:54	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	1.8	ug/L			05/17/24 17:54	1
Dibromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 17:54	1
1,2-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 17:54	1
1,3-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 17:54	1
1,4-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 17:54	1
Dichlorobromomethane	1.0	U	2.0	0.25	ug/L			05/17/24 17:54	1
Dichlorodifluoromethane	1.0	U Q	2.0	0.36	ug/L			05/17/24 17:54	1
1,1-Dichloroethane	1.0	U	2.0	0.33	ug/L			05/17/24 17:54	1
1,2-Dichloroethane	1.0	U	2.0	0.25	ug/L			05/17/24 17:54	1
1,1-Dichloroethene	1.0	U	2.0	0.33	ug/L			05/17/24 17:54	1
1,2-Dichloropropane	0.50	U	1.0	0.22	ug/L			05/17/24 17:54	1
1,3-Dichloropropane	1.0	U	2.0	0.36	ug/L			05/17/24 17:54	1
2,2-Dichloropropane	1.0	U	2.0	0.35	ug/L			05/17/24 17:54	1
1,1-Dichloropropene	1.0	U	2.0	0.28	ug/L			05/17/24 17:54	1
Ethyl acetate	10	U	20	5.0	ug/L			05/17/24 17:54	1
Ethylbenzene	0.50	U	1.0	0.20	ug/L			05/17/24 17:54	1
Ethylene Dibromide	1.0	U	2.0	0.33	ug/L			05/17/24 17:54	1
Hexachlorobutadiene	1.0	U	5.0	0.22	ug/L			05/17/24 17:54	1
Hexane	2.0	U Q	5.0	0.65	ug/L			05/17/24 17:54	1
2-Hexanone	10	U	20	3.2	ug/L			05/17/24 17:54	1
Iodomethane	10	U Q	20	3.9	ug/L			05/17/24 17:54	1
Isopropylbenzene	1.0	U	2.0	0.26	ug/L			05/17/24 17:54	1
Isopropyl ether	2.0	U	10	0.70	ug/L			05/17/24 17:54	1
4-Isopropyltoluene	1.0	U	2.0	0.44	ug/L			05/17/24 17:54	1
Methylene Chloride	10	U	20	3.2	ug/L			05/17/24 17:54	1
4-Methyl-2-pentanone (MIBK)	10	U	20	2.7	ug/L			05/17/24 17:54	1
Methyl tert-butyl ether	2.0	U	5.0	0.81	ug/L			05/17/24 17:54	1
m-Xylene & p-Xylene	1.0	U	2.0	0.49	ug/L			05/17/24 17:54	1
Naphthalene	5.0	U	10	2.4	ug/L			05/17/24 17:54	1
n-Butylbenzene	2.0	U	2.5	0.52	ug/L			05/17/24 17:54	1
n-Heptane	1.0	U	2.0	0.43	ug/L			05/17/24 17:54	1

Client Sample ID: MW-148

Date Collected: 05/08/24 15:45
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	2.0	0.41	ug/L			05/17/24 17:54	1
o-Xylene	1.0	U	2.0	0.26	ug/L			05/17/24 17:54	1
sec-Butylbenzene	2.0	U	2.5	0.53	ug/L			05/17/24 17:54	1
Styrene	1.0	U	2.0	0.27	ug/L			05/17/24 17:54	1
tert-Butylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 17:54	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	0.36	ug/L			05/17/24 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	0.40	ug/L			05/17/24 17:54	1
Tetrachloroethene	**0.40**	**J**	2.0	0.35	ug/L			05/17/24 17:54	1
Toluene	1.0	U	2.0	0.25	ug/L			05/17/24 17:54	1
trans-1,4-Dichloro-2-butene	5.0	U	10	1.3	ug/L			05/17/24 17:54	1
trans-1,2-Dichloroethene	1.0	U	2.0	0.34	ug/L			05/17/24 17:54	1
trans-1,3-Dichloropropene	1.0	U	2.0	0.23	ug/L			05/17/24 17:54	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.81	ug/L			05/17/24 17:54	1
1,2,4-Trichlorobenzene	2.0	U	5.0	0.53	ug/L			05/17/24 17:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.21	ug/L			05/17/24 17:54	1
1,1,2-Trichloroethane	1.0	U	2.0	0.32	ug/L			05/17/24 17:54	1
Trichloroethene	**0.30**	**J**	1.0	0.20	ug/L			05/17/24 17:54	1
Trichlorofluoromethane	1.0	U Q	2.0	0.33	ug/L			05/17/24 17:54	1
1,2,3-Trichloropropane	1.0	U	2.0	0.48	ug/L			05/17/24 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	0.23	ug/L			05/17/24 17:54	1
1,2,4-Trimethylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 17:54	1
1,3,5-Trimethylbenzene	1.0	U	2.0	0.28	ug/L			05/17/24 17:54	1
Vinyl acetate	2.0	U Q	2.5	0.69	ug/L			05/17/24 17:54	1
Vinyl chloride	1.0	U	2.0	0.40	ug/L			05/17/24 17:54	1
Xylenes, Total	1.0	U	2.0	0.49	ug/L			05/17/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*05/17/24 17:54*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*05/17/24 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*05/17/24 17:54*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*05/17/24 17:54*	*1*

Client Sample ID: MW-147

Date Collected: 05/08/24 16:05
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	25	3.7	ug/L			05/17/24 18:17	1
Benzene	**0.28**	**J**	2.0	0.27	ug/L			05/17/24 18:17	1
Bromobenzene	0.50	U	1.0	0.24	ug/L			05/17/24 18:17	1
Bromoform	2.0	U Q	2.5	0.59	ug/L			05/17/24 18:17	1
Bromomethane	10	U Q	20	3.7	ug/L			05/17/24 18:17	1
2-Butanone (MEK)	20	U	25	6.4	ug/L			05/17/24 18:17	1
Carbon disulfide	**0.72**	**J Q**	2.0	0.43	ug/L			05/17/24 18:17	1
Carbon tetrachloride	1.0	U	2.0	0.30	ug/L			05/17/24 18:17	1
Chlorobenzene	0.50	U	1.0	0.15	ug/L			05/17/24 18:17	1
Chlorobromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 18:17	1
Chlorodibromomethane	1.0	U	2.0	0.39	ug/L			05/17/24 18:17	1
Chloroethane	10	U	20	4.6	ug/L			05/17/24 18:17	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Client Sample ID: MW-147
Date Collected: 05/08/24 16:05
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**0.27**	**J**	2.0	0.27	ug/L			05/17/24 18:17	1
Chloromethane	2.0	U	2.5	0.54	ug/L			05/17/24 18:17	1
2-Chlorotoluene	0.50	U	1.0	0.25	ug/L			05/17/24 18:17	1
4-Chlorotoluene	1.0	U	2.0	0.41	ug/L			05/17/24 18:17	1
cis-1,2-Dichloroethene	**1.3**	**J**	2.0	0.25	ug/L			05/17/24 18:17	1
cis-1,3-Dichloropropene	1.0	U	2.0	0.26	ug/L			05/17/24 18:17	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	1.8	ug/L			05/17/24 18:17	1
Dibromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 18:17	1
1,2-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 18:17	1
1,3-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 18:17	1
1,4-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 18:17	1
Dichlorobromomethane	1.0	U	2.0	0.25	ug/L			05/17/24 18:17	1
Dichlorodifluoromethane	1.0	U Q	2.0	0.36	ug/L			05/17/24 18:17	1
1,1-Dichloroethane	1.0	U	2.0	0.33	ug/L			05/17/24 18:17	1
1,2-Dichloroethane	1.0	U	2.0	0.25	ug/L			05/17/24 18:17	1
1,1-Dichloroethene	1.0	U	2.0	0.33	ug/L			05/17/24 18:17	1
1,2-Dichloropropane	0.50	U	1.0	0.22	ug/L			05/17/24 18:17	1
1,3-Dichloropropane	1.0	U	2.0	0.36	ug/L			05/17/24 18:17	1
2,2-Dichloropropane	1.0	U	2.0	0.35	ug/L			05/17/24 18:17	1
1,1-Dichloropropene	1.0	U	2.0	0.28	ug/L			05/17/24 18:17	1
Ethyl acetate	10	U	20	5.0	ug/L			05/17/24 18:17	1
Ethylbenzene	0.50	U	1.0	0.20	ug/L			05/17/24 18:17	1
Ethylene Dibromide	1.0	U	2.0	0.33	ug/L			05/17/24 18:17	1
Hexachlorobutadiene	1.0	U	5.0	0.22	ug/L			05/17/24 18:17	1
Hexane	2.0	U Q	5.0	0.65	ug/L			05/17/24 18:17	1
2-Hexanone	10	U	20	3.2	ug/L			05/17/24 18:17	1
Iodomethane	10	U Q	20	3.9	ug/L			05/17/24 18:17	1
Isopropylbenzene	1.0	U	2.0	0.26	ug/L			05/17/24 18:17	1
Isopropyl ether	2.0	U	10	0.70	ug/L			05/17/24 18:17	1
4-Isopropyltoluene	1.0	U	2.0	0.44	ug/L			05/17/24 18:17	1
Methylene Chloride	10	U	20	3.2	ug/L			05/17/24 18:17	1
4-Methyl-2-pentanone (MIBK)	10	U	20	2.7	ug/L			05/17/24 18:17	1
Methyl tert-butyl ether	**1.5**	**J**	5.0	0.81	ug/L			05/17/24 18:17	1
m-Xylene & p-Xylene	1.0	U	2.0	0.49	ug/L			05/17/24 18:17	1
Naphthalene	5.0	U	10	2.4	ug/L			05/17/24 18:17	1
n-Butylbenzene	2.0	U	2.5	0.52	ug/L			05/17/24 18:17	1
n-Heptane	1.0	U	2.0	0.43	ug/L			05/17/24 18:17	1
N-Propylbenzene	1.0	U	2.0	0.41	ug/L			05/17/24 18:17	1
o-Xylene	1.0	U	2.0	0.26	ug/L			05/17/24 18:17	1
sec-Butylbenzene	2.0	U	2.5	0.53	ug/L			05/17/24 18:17	1
Styrene	1.0	U	2.0	0.27	ug/L			05/17/24 18:17	1
tert-Butylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 18:17	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	0.36	ug/L			05/17/24 18:17	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	0.40	ug/L			05/17/24 18:17	1
Tetrachloroethene	1.0	U	2.0	0.35	ug/L			05/17/24 18:17	1
Toluene	1.0	U	2.0	0.25	ug/L			05/17/24 18:17	1
trans-1,4-Dichloro-2-butene	5.0	U	10	1.3	ug/L			05/17/24 18:17	1
trans-1,2-Dichloroethene	1.0	U	2.0	0.34	ug/L			05/17/24 18:17	1
trans-1,3-Dichloropropene	1.0	U	2.0	0.23	ug/L			05/17/24 18:17	1

Client Sample ID: MW-147

Lab Sample ID: 680-250515-2

Date Collected: 05/08/24 16:05

Matrix: Water

Date Received: 05/09/24 10:53

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	2.0	U	5.0	0.81	ug/L			05/17/24 18:17	1
1,2,4-Trichlorobenzene	2.0	U	5.0	0.53	ug/L			05/17/24 18:17	1
1,1,1-Trichloroethane	0.50	U	1.0	0.21	ug/L			05/17/24 18:17	1
1,1,2-Trichloroethane	1.0	U	2.0	0.32	ug/L			05/17/24 18:17	1
Trichloroethene	0.50	U	1.0	0.20	ug/L			05/17/24 18:17	1
Trichlorofluoromethane	1.0	U Q	2.0	0.33	ug/L			05/17/24 18:17	1
1,2,3-Trichloropropane	1.0	U	2.0	0.48	ug/L			05/17/24 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	0.23	ug/L			05/17/24 18:17	1
1,2,4-Trimethylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 18:17	1
1,3,5-Trimethylbenzene	1.0	U	2.0	0.28	ug/L			05/17/24 18:17	1
Vinyl acetate	2.0	U Q	2.5	0.69	ug/L			05/17/24 18:17	1
Vinyl chloride	1.0	U	2.0	0.40	ug/L			05/17/24 18:17	1
Xylenes, Total	1.0	U	2.0	0.49	ug/L			05/17/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*05/17/24 18:17*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*05/17/24 18:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*05/17/24 18:17*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*05/17/24 18:17*	*1*

Client Sample ID: MW-142

Lab Sample ID: 680-250515-3

Date Collected: 05/08/24 16:35

Matrix: Water

Date Received: 05/09/24 10:53

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	25	3.7	ug/L			05/17/24 18:40	1
Benzene	1.0	U	2.0	0.27	ug/L			05/17/24 18:40	1
Bromobenzene	0.50	U	1.0	0.24	ug/L			05/17/24 18:40	1
Bromoform	2.0	U	2.5	0.59	ug/L			05/20/24 14:31	1
Bromomethane	10	U Q	20	3.7	ug/L			05/17/24 18:40	1
2-Butanone (MEK)	20	U	25	6.4	ug/L			05/17/24 18:40	1
Carbon disulfide	1.0	U Q	2.0	0.43	ug/L			05/17/24 18:40	1
Carbon tetrachloride	1.0	U M	2.0	0.30	ug/L			05/17/24 18:40	1
Chlorobenzene	0.50	U	1.0	0.15	ug/L			05/17/24 18:40	1
Chlorobromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 18:40	1
Chlorodibromomethane	1.0	U M	2.0	0.39	ug/L			05/17/24 18:40	1
Chloroethane	10	U	20	4.6	ug/L			05/17/24 18:40	1
Chloroform	**8.1**		2.0	0.27	ug/L			05/17/24 18:40	1
Chloromethane	2.0	U	2.5	0.54	ug/L			05/17/24 18:40	1
2-Chlorotoluene	0.50	U	1.0	0.25	ug/L			05/17/24 18:40	1
4-Chlorotoluene	1.0	U	2.0	0.41	ug/L			05/17/24 18:40	1
cis-1,2-Dichloroethene	**1.8**	**J**	2.0	0.25	ug/L			05/17/24 18:40	1
cis-1,3-Dichloropropene	1.0	U	2.0	0.26	ug/L			05/17/24 18:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	1.8	ug/L			05/17/24 18:40	1
Dibromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 18:40	1
1,2-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 18:40	1
1,3-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 18:40	1
1,4-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 18:40	1
Dichlorobromomethane	**0.68**	**J**	2.0	0.25	ug/L			05/17/24 18:40	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Client Sample ID: MW-142
Date Collected: 05/08/24 16:35
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U Q	2.0	0.36	ug/L			05/17/24 18:40	1
1,1-Dichloroethane	1.0	U	2.0	0.33	ug/L			05/17/24 18:40	1
1,2-Dichloroethane	1.0	U	2.0	0.25	ug/L			05/17/24 18:40	1
1,1-Dichloroethene	**2.4**		2.0	0.33	ug/L			05/17/24 18:40	1
1,2-Dichloropropane	0.50	U	1.0	0.22	ug/L			05/17/24 18:40	1
1,3-Dichloropropane	1.0	U	2.0	0.36	ug/L			05/17/24 18:40	1
2,2-Dichloropropane	1.0	U	2.0	0.35	ug/L			05/17/24 18:40	1
1,1-Dichloropropene	1.0	U	2.0	0.28	ug/L			05/17/24 18:40	1
Ethyl acetate	10	U	20	5.0	ug/L			05/17/24 18:40	1
Ethylbenzene	0.50	U	1.0	0.20	ug/L			05/17/24 18:40	1
Ethylene Dibromide	1.0	U	2.0	0.33	ug/L			05/17/24 18:40	1
Hexachlorobutadiene	1.0	U	5.0	0.22	ug/L			05/17/24 18:40	1
Hexane	2.0	U Q	5.0	0.65	ug/L			05/17/24 18:40	1
2-Hexanone	10	U	20	3.2	ug/L			05/17/24 18:40	1
Iodomethane	10	U Q	20	3.9	ug/L			05/17/24 18:40	1
Isopropylbenzene	1.0	U	2.0	0.26	ug/L			05/17/24 18:40	1
Isopropyl ether	2.0	U	10	0.70	ug/L			05/17/24 18:40	1
4-Isopropyltoluene	1.0	U	2.0	0.44	ug/L			05/17/24 18:40	1
Methylene Chloride	10	U	20	3.2	ug/L			05/17/24 18:40	1
4-Methyl-2-pentanone (MIBK)	10	U	20	2.7	ug/L			05/17/24 18:40	1
Methyl tert-butyl ether	2.0	U	5.0	0.81	ug/L			05/17/24 18:40	1
m-Xylene & p-Xylene	1.0	U	2.0	0.49	ug/L			05/17/24 18:40	1
Naphthalene	5.0	U	10	2.4	ug/L			05/17/24 18:40	1
n-Butylbenzene	2.0	U	2.5	0.52	ug/L			05/17/24 18:40	1
n-Heptane	1.0	U	2.0	0.43	ug/L			05/17/24 18:40	1
N-Propylbenzene	1.0	U	2.0	0.41	ug/L			05/17/24 18:40	1
o-Xylene	1.0	U	2.0	0.26	ug/L			05/17/24 18:40	1
sec-Butylbenzene	2.0	U	2.5	0.53	ug/L			05/17/24 18:40	1
Styrene	1.0	U	2.0	0.27	ug/L			05/17/24 18:40	1
tert-Butylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 18:40	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	0.36	ug/L			05/17/24 18:40	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	0.40	ug/L			05/17/24 18:40	1
Tetrachloroethene	**3.0**		2.0	0.35	ug/L			05/17/24 18:40	1
Toluene	1.0	U	2.0	0.25	ug/L			05/17/24 18:40	1
trans-1,4-Dichloro-2-butene	5.0	U	10	1.3	ug/L			05/17/24 18:40	1
trans-1,2-Dichloroethene	1.0	U	2.0	0.34	ug/L			05/17/24 18:40	1
trans-1,3-Dichloropropene	1.0	U	2.0	0.23	ug/L			05/17/24 18:40	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.81	ug/L			05/17/24 18:40	1
1,2,4-Trichlorobenzene	2.0	U	5.0	0.53	ug/L			05/17/24 18:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.21	ug/L			05/17/24 18:40	1
1,1,2-Trichloroethane	1.0	U	2.0	0.32	ug/L			05/17/24 18:40	1
Trichloroethene	**130**		1.0	0.20	ug/L			05/17/24 18:40	1
Trichlorofluoromethane	1.0	U Q	2.0	0.33	ug/L			05/17/24 18:40	1
1,2,3-Trichloropropane	1.0	U	2.0	0.48	ug/L			05/17/24 18:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	0.23	ug/L			05/17/24 18:40	1
1,2,4-Trimethylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 18:40	1
1,3,5-Trimethylbenzene	1.0	U	2.0	0.28	ug/L			05/17/24 18:40	1
Vinyl acetate	2.0	U Q	2.5	0.69	ug/L			05/17/24 18:40	1
Vinyl chloride	1.0	U M	2.0	0.40	ug/L			05/17/24 18:40	1

Client Sample ID: MW-142

Lab Sample ID: 680-250515-3

Date Collected: 05/08/24 16:35

Matrix: Water

Date Received: 05/09/24 10:53

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.0	U	2.0	0.49	ug/L			05/17/24 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*		*05/17/24 18:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*		*05/20/24 14:31*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*05/17/24 18:40*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 119*		*05/20/24 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*05/17/24 18:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*81 - 118*		*05/20/24 14:31*	*1*
Toluene-d8 (Surr)	*94*		*89 - 112*		*05/17/24 18:40*	*1*
Toluene-d8 (Surr)	*104*		*89 - 112*		*05/20/24 14:31*	*1*

Client Sample ID: DUP-GW-20240508

Lab Sample ID: 680-250515-4

Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/09/24 10:53

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	25	3.7	ug/L			05/17/24 19:02	1
Benzene	1.0	U	2.0	0.27	ug/L			05/17/24 19:02	1
Bromobenzene	0.50	U	1.0	0.24	ug/L			05/17/24 19:02	1
Bromoform	2.0	U Q	2.5	0.59	ug/L			05/17/24 19:02	1
Bromomethane	10	U Q	20	3.7	ug/L			05/17/24 19:02	1
2-Butanone (MEK)	20	U	25	6.4	ug/L			05/17/24 19:02	1
Carbon disulfide	1.0	U Q	2.0	0.43	ug/L			05/17/24 19:02	1
Carbon tetrachloride	1.0	U M	2.0	0.30	ug/L			05/17/24 19:02	1
Chlorobenzene	0.50	U	1.0	0.15	ug/L			05/17/24 19:02	1
Chlorobromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 19:02	1
Chlorodibromomethane	1.0	U	2.0	0.39	ug/L			05/17/24 19:02	1
Chloroethane	10	U	20	4.6	ug/L			05/17/24 19:02	1
Chloroform	**3.6**		2.0	0.27	ug/L			05/17/24 19:02	1
Chloromethane	2.0	U M	2.5	0.54	ug/L			05/17/24 19:02	1
2-Chlorotoluene	0.50	U	1.0	0.25	ug/L			05/17/24 19:02	1
4-Chlorotoluene	1.0	U	2.0	0.41	ug/L			05/17/24 19:02	1
cis-1,2-Dichloroethene	1.0	U	2.0	0.25	ug/L			05/17/24 19:02	1
cis-1,3-Dichloropropene	1.0	U	2.0	0.26	ug/L			05/17/24 19:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	1.8	ug/L			05/17/24 19:02	1
Dibromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 19:02	1
1,2-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 19:02	1
1,3-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 19:02	1
1,4-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 19:02	1
Dichlorobromomethane	1.0	U	2.0	0.25	ug/L			05/17/24 19:02	1
Dichlorodifluoromethane	1.0	U Q	2.0	0.36	ug/L			05/17/24 19:02	1
1,1-Dichloroethane	1.0	U	2.0	0.33	ug/L			05/17/24 19:02	1
1,2-Dichloroethane	1.0	U	2.0	0.25	ug/L			05/17/24 19:02	1
1,1-Dichloroethene	1.0	U	2.0	0.33	ug/L			05/17/24 19:02	1
1,2-Dichloropropane	0.50	U	1.0	0.22	ug/L			05/17/24 19:02	1
1,3-Dichloropropane	1.0	U	2.0	0.36	ug/L			05/17/24 19:02	1
2,2-Dichloropropane	1.0	U	2.0	0.35	ug/L			05/17/24 19:02	1
1,1-Dichloropropene	1.0	U	2.0	0.28	ug/L			05/17/24 19:02	1

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Client Sample ID: DUP-GW-20240508
Date Collected: 05/08/24 00:00
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl acetate	10	U	20	5.0	ug/L			05/17/24 19:02	1
Ethylbenzene	0.50	U	1.0	0.20	ug/L			05/17/24 19:02	1
Ethylene Dibromide	1.0	U	2.0	0.33	ug/L			05/17/24 19:02	1
Hexachlorobutadiene	1.0	U	5.0	0.22	ug/L			05/17/24 19:02	1
Hexane	2.0	U Q	5.0	0.65	ug/L			05/17/24 19:02	1
2-Hexanone	10	U	20	3.2	ug/L			05/17/24 19:02	1
Iodomethane	10	U Q	20	3.9	ug/L			05/17/24 19:02	1
Isopropylbenzene	1.0	U	2.0	0.26	ug/L			05/17/24 19:02	1
Isopropyl ether	2.0	U	10	0.70	ug/L			05/17/24 19:02	1
4-Isopropyltoluene	1.0	U	2.0	0.44	ug/L			05/17/24 19:02	1
Methylene Chloride	10	U	20	3.2	ug/L			05/17/24 19:02	1
4-Methyl-2-pentanone (MIBK)	10	U	20	2.7	ug/L			05/17/24 19:02	1
Methyl tert-butyl ether	2.0	U	5.0	0.81	ug/L			05/17/24 19:02	1
m-Xylene & p-Xylene	1.0	U	2.0	0.49	ug/L			05/17/24 19:02	1
Naphthalene	5.0	U	10	2.4	ug/L			05/17/24 19:02	1
n-Butylbenzene	2.0	U	2.5	0.52	ug/L			05/17/24 19:02	1
n-Heptane	1.0	U	2.0	0.43	ug/L			05/17/24 19:02	1
N-Propylbenzene	1.0	U	2.0	0.41	ug/L			05/17/24 19:02	1
o-Xylene	1.0	U	2.0	0.26	ug/L			05/17/24 19:02	1
sec-Butylbenzene	2.0	U	2.5	0.53	ug/L			05/17/24 19:02	1
Styrene	1.0	U	2.0	0.27	ug/L			05/17/24 19:02	1
tert-Butylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 19:02	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	0.36	ug/L			05/17/24 19:02	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	0.40	ug/L			05/17/24 19:02	1
Tetrachloroethene	1.0	U	2.0	0.35	ug/L			05/17/24 19:02	1
Toluene	1.0	U	2.0	0.25	ug/L			05/17/24 19:02	1
trans-1,4-Dichloro-2-butene	5.0	U	10	1.3	ug/L			05/17/24 19:02	1
trans-1,2-Dichloroethene	1.0	U	2.0	0.34	ug/L			05/17/24 19:02	1
trans-1,3-Dichloropropene	1.0	U	2.0	0.23	ug/L			05/17/24 19:02	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.81	ug/L			05/17/24 19:02	1
1,2,4-Trichlorobenzene	2.0	U	5.0	0.53	ug/L			05/17/24 19:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.21	ug/L			05/17/24 19:02	1
1,1,2-Trichloroethane	1.0	U	2.0	0.32	ug/L			05/17/24 19:02	1
Trichloroethene	**0.57**	**J**	1.0	0.20	ug/L			05/17/24 19:02	1
Trichlorofluoromethane	1.0	U Q	2.0	0.33	ug/L			05/17/24 19:02	1
1,2,3-Trichloropropane	1.0	U	2.0	0.48	ug/L			05/17/24 19:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	0.23	ug/L			05/17/24 19:02	1
1,2,4-Trimethylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 19:02	1
1,3,5-Trimethylbenzene	1.0	U	2.0	0.28	ug/L			05/17/24 19:02	1
Vinyl acetate	2.0	U Q	2.5	0.69	ug/L			05/17/24 19:02	1
Vinyl chloride	1.0	U M	2.0	0.40	ug/L			05/17/24 19:02	1
Xylenes, Total	1.0	U	2.0	0.49	ug/L			05/17/24 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*		*05/17/24 19:02*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*05/17/24 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*05/17/24 19:02*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*05/17/24 19:02*	*1*

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-838498/10
Matrix: Water
Analysis Batch: 838498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	25	3.7	ug/L			05/17/24 13:31	1
Benzene	1.0	U	2.0	0.27	ug/L			05/17/24 13:31	1
Bromobenzene	0.50	U	1.0	0.24	ug/L			05/17/24 13:31	1
Bromoform	2.0	U	2.5	0.59	ug/L			05/17/24 13:31	1
Bromomethane	10	U	20	3.7	ug/L			05/17/24 13:31	1
2-Butanone (MEK)	20	U	25	6.4	ug/L			05/17/24 13:31	1
Carbon disulfide	1.0	U	2.0	0.43	ug/L			05/17/24 13:31	1
Carbon tetrachloride	1.0	U	2.0	0.30	ug/L			05/17/24 13:31	1
Chlorobenzene	0.50	U	1.0	0.15	ug/L			05/17/24 13:31	1
Chlorobromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 13:31	1
Chlorodibromomethane	1.0	U	2.0	0.39	ug/L			05/17/24 13:31	1
Chloroethane	10	U	20	4.6	ug/L			05/17/24 13:31	1
Chloroform	1.0	U	2.0	0.27	ug/L			05/17/24 13:31	1
Chloromethane	2.0	U	2.5	0.54	ug/L			05/17/24 13:31	1
2-Chlorotoluene	0.50	U	1.0	0.25	ug/L			05/17/24 13:31	1
4-Chlorotoluene	1.0	U	2.0	0.41	ug/L			05/17/24 13:31	1
cis-1,2-Dichloroethene	1.0	U	2.0	0.25	ug/L			05/17/24 13:31	1
cis-1,3-Dichloropropene	1.0	U	2.0	0.26	ug/L			05/17/24 13:31	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	1.8	ug/L			05/17/24 13:31	1
Dibromomethane	1.0	U	2.0	0.34	ug/L			05/17/24 13:31	1
1,2-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 13:31	1
1,3-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 13:31	1
1,4-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/17/24 13:31	1
Dichlorobromomethane	1.0	U	2.0	0.25	ug/L			05/17/24 13:31	1
Dichlorodifluoromethane	1.0	U	2.0	0.36	ug/L			05/17/24 13:31	1
1,1-Dichloroethane	1.0	U	2.0	0.33	ug/L			05/17/24 13:31	1
1,2-Dichloroethane	1.0	U	2.0	0.25	ug/L			05/17/24 13:31	1
1,1-Dichloroethene	1.0	U	2.0	0.33	ug/L			05/17/24 13:31	1
1,2-Dichloropropane	0.50	U	1.0	0.22	ug/L			05/17/24 13:31	1
1,3-Dichloropropane	1.0	U	2.0	0.36	ug/L			05/17/24 13:31	1
2,2-Dichloropropane	1.0	U	2.0	0.35	ug/L			05/17/24 13:31	1
1,1-Dichloropropene	1.0	U	2.0	0.28	ug/L			05/17/24 13:31	1
Ethyl acetate	10	U	20	5.0	ug/L			05/17/24 13:31	1
Ethylbenzene	0.50	U	1.0	0.20	ug/L			05/17/24 13:31	1
Ethylene Dibromide	1.0	U	2.0	0.33	ug/L			05/17/24 13:31	1
Hexachlorobutadiene	1.0	U	5.0	0.22	ug/L			05/17/24 13:31	1
Hexane	2.0	U	5.0	0.65	ug/L			05/17/24 13:31	1
2-Hexanone	10	U	20	3.2	ug/L			05/17/24 13:31	1
Iodomethane	10	U	20	3.9	ug/L			05/17/24 13:31	1
Isopropylbenzene	1.0	U	2.0	0.26	ug/L			05/17/24 13:31	1
Isopropyl ether	2.0	U	10	0.70	ug/L			05/17/24 13:31	1
4-Isopropyltoluene	1.0	U	2.0	0.44	ug/L			05/17/24 13:31	1
Methylene Chloride	10	U	20	3.2	ug/L			05/17/24 13:31	1
4-Methyl-2-pentanone (MIBK)	10	U	20	2.7	ug/L			05/17/24 13:31	1
Methyl tert-butyl ether	2.0	U	5.0	0.81	ug/L			05/17/24 13:31	1
m-Xylene & p-Xylene	1.0	U	2.0	0.49	ug/L			05/17/24 13:31	1
Naphthalene	5.0	U	10	2.4	ug/L			05/17/24 13:31	1
n-Butylbenzene	2.0	U	2.5	0.52	ug/L			05/17/24 13:31	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-838498/10
Matrix: Water
Analysis Batch: 838498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	1.0	U	2.0	0.43	ug/L			05/17/24 13:31	1
N-Propylbenzene	1.0	U M	2.0	0.41	ug/L			05/17/24 13:31	1
o-Xylene	1.0	U	2.0	0.26	ug/L			05/17/24 13:31	1
sec-Butylbenzene	2.0	U	2.5	0.53	ug/L			05/17/24 13:31	1
Styrene	1.0	U	2.0	0.27	ug/L			05/17/24 13:31	1
tert-Butylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 13:31	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	0.36	ug/L			05/17/24 13:31	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	0.40	ug/L			05/17/24 13:31	1
Tetrachloroethene	1.0	U	2.0	0.35	ug/L			05/17/24 13:31	1
Toluene	1.0	U	2.0	0.25	ug/L			05/17/24 13:31	1
trans-1,4-Dichloro-2-butene	5.0	U	10	1.3	ug/L			05/17/24 13:31	1
trans-1,2-Dichloroethene	1.0	U	2.0	0.34	ug/L			05/17/24 13:31	1
trans-1,3-Dichloropropene	1.0	U	2.0	0.23	ug/L			05/17/24 13:31	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.81	ug/L			05/17/24 13:31	1
1,2,4-Trichlorobenzene	2.0	U	5.0	0.53	ug/L			05/17/24 13:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.21	ug/L			05/17/24 13:31	1
1,1,2-Trichloroethane	1.0	U	2.0	0.32	ug/L			05/17/24 13:31	1
Trichloroethene	0.50	U	1.0	0.20	ug/L			05/17/24 13:31	1
Trichlorofluoromethane	1.0	U	2.0	0.33	ug/L			05/17/24 13:31	1
1,2,3-Trichloropropane	1.0	U	2.0	0.48	ug/L			05/17/24 13:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	0.23	ug/L			05/17/24 13:31	1
1,2,4-Trimethylbenzene	1.0	U	2.0	0.43	ug/L			05/17/24 13:31	1
1,3,5-Trimethylbenzene	1.0	U	2.0	0.28	ug/L			05/17/24 13:31	1
Vinyl acetate	2.0	U	2.5	0.69	ug/L			05/17/24 13:31	1
Vinyl chloride	1.0	U	2.0	0.40	ug/L			05/17/24 13:31	1
Xylenes, Total	1.0	U	2.0	0.49	ug/L			05/17/24 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*05/17/24 13:31*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*05/17/24 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*05/17/24 13:31*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*05/17/24 13:31*	*1*

Lab Sample ID: LCS 680-838498/4
Matrix: Water
Analysis Batch: 838498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	246		ug/L		98	39 - 160
Benzene	50.0	52.3		ug/L		105	79 - 120
Bromobenzene	50.0	50.2		ug/L		100	80 - 120
Bromoform	50.0	66.3	J1 Q	ug/L		133	66 - 130
Bromomethane	50.0	29.4		ug/L		59	53 - 141
2-Butanone (MEK)	250	248		ug/L		99	56 - 143
Carbon disulfide	50.0	53.1		ug/L		106	64 - 133
Carbon tetrachloride	50.0	54.5		ug/L		109	72 - 136
Chlorobenzene	50.0	47.6		ug/L		95	82 - 118
Chlorobromomethane	50.0	51.8		ug/L		104	78 - 123

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-838498/4
Matrix: Water
Analysis Batch: 838498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	50.0	55.0		ug/L		110	74 - 126
Chloroethane	50.0	44.7		ug/L		89	60 - 138
Chloroform	50.0	51.6		ug/L		103	79 - 124
Chloromethane	50.0	41.6		ug/L		83	50 - 139
2-Chlorotoluene	50.0	49.6		ug/L		99	79 - 122
4-Chlorotoluene	50.0	48.7		ug/L		97	78 - 122
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	78 - 123
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	75 - 124
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/L		101	62 - 128
Dibromomethane	50.0	51.0		ug/L		102	79 - 123
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 119
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 119
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	79 - 118
Dichlorobromomethane	50.0	51.2		ug/L		102	79 - 125
Dichlorodifluoromethane	50.0	34.8		ug/L		70	32 - 152
1,1-Dichloroethane	50.0	53.1		ug/L		106	77 - 125
1,2-Dichloroethane	50.0	50.2		ug/L		100	73 - 128
1,1-Dichloroethene	50.0	55.0		ug/L		110	71 - 131
1,2-Dichloropropane	50.0	51.3		ug/L		103	78 - 122
1,3-Dichloropropane	50.0	51.4		ug/L		103	80 - 119
2,2-Dichloropropane	50.0	57.1		ug/L		114	60 - 139
1,1-Dichloropropene	50.0	55.1		ug/L		110	79 - 125
Ethylbenzene	50.0	47.9		ug/L		96	79 - 121
Ethylene Dibromide	50.0	51.8		ug/L		104	75 - 127
Hexachlorobutadiene	50.0	54.7		ug/L		109	66 - 134
Hexane	50.0	55.3		ug/L		111	48 - 143
2-Hexanone	250	269		ug/L		108	57 - 139
Iodomethane	50.0	46.8		ug/L		94	69 - 131
Isopropylbenzene	50.0	49.2		ug/L		98	72 - 131
4-Isopropyltoluene	50.0	49.2		ug/L		98	77 - 127
Methylene Chloride	50.0	53.5		ug/L		107	74 - 124
4-Methyl-2-pentanone (MIBK)	250	271		ug/L		109	67 - 130
Methyl tert-butyl ether	50.0	51.5		ug/L		103	71 - 124
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	80 - 121
Naphthalene	50.0	49.1		ug/L		98	61 - 128
n-Butylbenzene	50.0	49.9		ug/L		100	75 - 128
n-Heptane	50.0	59.3		ug/L		119	49 - 140
N-Propylbenzene	50.0	50.0		ug/L		100	76 - 126
o-Xylene	50.0	49.8		ug/L		100	78 - 122
sec-Butylbenzene	50.0	49.0		ug/L		98	77 - 126
Styrene	50.0	50.4		ug/L		101	78 - 123
tert-Butylbenzene	50.0	48.6		ug/L		97	78 - 124
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/L		98	78 - 124
1,1,2,2-Tetrachloroethane	50.0	59.0		ug/L		118	71 - 121
Tetrachloroethene	50.0	53.7		ug/L		107	74 - 129
Toluene	50.0	50.5		ug/L		101	80 - 121
trans-1,4-Dichloro-2-butene	50.0	54.7		ug/L		109	43 - 140
trans-1,2-Dichloroethene	50.0	54.5		ug/L		109	75 - 124
trans-1,3-Dichloropropene	50.0	51.1		ug/L		102	73 - 127

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-838498/4
Matrix: Water
Analysis Batch: 838498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	48.7		ug/L		97	69 - 129
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	69 - 130
1,1,1-Trichloroethane	50.0	54.5		ug/L		109	74 - 131
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	80 - 119
Trichloroethene	50.0	49.8		ug/L		100	79 - 123
Trichlorofluoromethane	50.0	103	Q	ug/L		206	65 - 141
1,2,3-Trichloropropane	50.0	49.1		ug/L		98	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.4		ug/L		119	70 - 136
1,2,4-Trimethylbenzene	50.0	50.4		ug/L		101	76 - 124
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	75 - 124
Vinyl acetate	100	296	J1 Q	ug/L		296	54 - 146
Vinyl chloride	50.0	42.4		ug/L		85	58 - 137
Xylenes, Total	100	98.8		ug/L		99	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*
Toluene-d8 (Surr)	*91*		*89 - 112*

Lab Sample ID: LCSD 680-838498/5
Matrix: Water
Analysis Batch: 838498

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
Acetone	250	251		ug/L		101	39 - 160	2	20
Benzene	50.0	52.1		ug/L		104	79 - 120	0	20
Bromobenzene	50.0	51.9		ug/L		104	80 - 120	3	20
Bromoform	50.0	66.7	J1 Q	ug/L		133	66 - 130	1	20
Bromomethane	50.0	30.7		ug/L		61	53 - 141	4	20
2-Butanone (MEK)	250	259		ug/L		103	56 - 143	4	20
Carbon disulfide	50.0	51.4		ug/L		103	64 - 133	3	20
Carbon tetrachloride	50.0	50.2		ug/L		100	72 - 136	8	20
Chlorobenzene	50.0	48.6		ug/L		97	82 - 118	2	20
Chlorobromomethane	50.0	52.1		ug/L		104	78 - 123	0	20
Chlorodibromomethane	50.0	54.4		ug/L		109	74 - 126	1	20
Chloroethane	50.0	46.9		ug/L		94	60 - 138	5	20
Chloroform	50.0	50.4		ug/L		101	79 - 124	2	20
Chloromethane	50.0	44.8		ug/L		90	50 - 139	7	20
2-Chlorotoluene	50.0	49.5		ug/L		99	79 - 122	0	20
4-Chlorotoluene	50.0	48.9		ug/L		98	78 - 122	0	20
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	78 - 123	3	20
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	75 - 124	1	20
1,2-Dibromo-3-Chloropropane	50.0	52.4		ug/L		105	62 - 128	3	20
Dibromomethane	50.0	51.0		ug/L		102	79 - 123	0	20
1,2-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 119	0	20
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 119	3	20
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	79 - 118	1	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-838498/5
Matrix: Water
Analysis Batch: 838498

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
Dichlorobromomethane	50.0	50.0		ug/L		100	79 - 125	2	20
Dichlorodifluoromethane	50.0	37.2		ug/L		74	32 - 152	7	20
1,1-Dichloroethane	50.0	51.8		ug/L		104	77 - 125	2	20
1,2-Dichloroethane	50.0	47.6		ug/L		95	73 - 128	5	20
1,1-Dichloroethene	50.0	53.1		ug/L		106	71 - 131	4	20
1,2-Dichloropropane	50.0	52.3		ug/L		105	78 - 122	2	20
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 119	1	20
2,2-Dichloropropane	50.0	53.1		ug/L		106	60 - 139	7	20
1,1-Dichloropropene	50.0	53.0		ug/L		106	79 - 125	4	20
Ethylbenzene	50.0	47.7		ug/L		95	79 - 121	0	20
Ethylene Dibromide	50.0	52.7		ug/L		105	75 - 127	2	20
Hexachlorobutadiene	50.0	55.1		ug/L		110	66 - 134	1	20
Hexane	50.0	55.0		ug/L		110	48 - 143	1	20
2-Hexanone	250	276		ug/L		110	57 - 139	2	20
Iodomethane	50.0	45.7		ug/L		91	69 - 131	2	20
Isopropylbenzene	50.0	49.5		ug/L		99	72 - 131	1	20
4-Isopropyltoluene	50.0	48.4		ug/L		97	77 - 127	2	20
Methylene Chloride	50.0	53.1		ug/L		106	74 - 124	1	20
4-Methyl-2-pentanone (MIBK)	250	278		ug/L		111	67 - 130	2	20
Methyl tert-butyl ether	50.0	51.0		ug/L		102	71 - 124	1	20
m-Xylene & p-Xylene	50.0	48.7		ug/L		97	80 - 121	0	20
Naphthalene	50.0	50.5		ug/L		101	61 - 128	3	20
n-Butylbenzene	50.0	48.5		ug/L		97	75 - 128	3	20
n-Heptane	50.0	58.0		ug/L		116	49 - 140	2	20
N-Propylbenzene	50.0	50.0		ug/L		100	76 - 126	0	20
o-Xylene	50.0	50.2		ug/L		100	78 - 122	1	20
sec-Butylbenzene	50.0	49.5		ug/L		99	77 - 126	1	20
Styrene	50.0	51.0		ug/L		102	78 - 123	1	20
tert-Butylbenzene	50.0	49.0		ug/L		98	78 - 124	1	20
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	78 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	71 - 121	1	20
Tetrachloroethene	50.0	54.1		ug/L		108	74 - 129	1	20
Toluene	50.0	50.6		ug/L		101	80 - 121	0	20
trans-1,4-Dichloro-2-butene	50.0	53.4		ug/L		107	43 - 140	2	20
trans-1,2-Dichloroethene	50.0	53.3		ug/L		107	75 - 124	2	20
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	73 - 127	1	20
1,2,3-Trichlorobenzene	50.0	49.3		ug/L		99	69 - 129	1	20
1,2,4-Trichlorobenzene	50.0	52.3		ug/L		105	69 - 130	2	20
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	74 - 131	7	20
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 119	1	20
Trichloroethene	50.0	49.7		ug/L		99	79 - 123	0	20
Trichlorofluoromethane	50.0	104	Q	ug/L		209	65 - 141	1	20
1,2,3-Trichloropropane	50.0	50.4		ug/L		101	73 - 122	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.2		ug/L		116	70 - 136	2	20
1,2,4-Trimethylbenzene	50.0	50.9		ug/L		102	76 - 124	1	20
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	75 - 124	1	20
Vinyl acetate	100	285	J1 Q	ug/L		285	54 - 146	4	20
Vinyl chloride	50.0	46.1		ug/L		92	58 - 137	8	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-838498/5
Matrix: Water
Analysis Batch: 838498

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
Xylenes, Total			100	98.9		ug/L		99	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*
Dibromofluoromethane (Surr)	*103*		*80 - 119*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*
Toluene-d8 (Surr)	*92*		*89 - 112*

Lab Sample ID: MB 680-838791/8
Matrix: Water
Analysis Batch: 838791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	25	3.7	ug/L			05/20/24 12:40	1
Benzene	1.0	U	2.0	0.27	ug/L			05/20/24 12:40	1
Bromobenzene	0.50	U	1.0	0.24	ug/L			05/20/24 12:40	1
Bromoform	2.0	U	2.5	0.59	ug/L			05/20/24 12:40	1
Bromomethane	10	U	20	3.7	ug/L			05/20/24 12:40	1
2-Butanone (MEK)	20	U	25	6.4	ug/L			05/20/24 12:40	1
Carbon disulfide	1.0	U	2.0	0.43	ug/L			05/20/24 12:40	1
Carbon tetrachloride	1.0	U	2.0	0.30	ug/L			05/20/24 12:40	1
Chlorobenzene	0.50	U	1.0	0.15	ug/L			05/20/24 12:40	1
Chlorobromomethane	1.0	U	2.0	0.34	ug/L			05/20/24 12:40	1
Chlorodibromomethane	1.0	U	2.0	0.39	ug/L			05/20/24 12:40	1
Chloroethane	10	U	20	4.6	ug/L			05/20/24 12:40	1
Chloroform	1.0	U	2.0	0.27	ug/L			05/20/24 12:40	1
Chloromethane	2.0	U	2.5	0.54	ug/L			05/20/24 12:40	1
2-Chlorotoluene	0.50	U	1.0	0.25	ug/L			05/20/24 12:40	1
4-Chlorotoluene	1.0	U	2.0	0.41	ug/L			05/20/24 12:40	1
cis-1,2-Dichloroethene	1.0	U	2.0	0.25	ug/L			05/20/24 12:40	1
cis-1,3-Dichloropropene	1.0	U	2.0	0.26	ug/L			05/20/24 12:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	1.8	ug/L			05/20/24 12:40	1
Dibromomethane	1.0	U	2.0	0.34	ug/L			05/20/24 12:40	1
1,2-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/20/24 12:40	1
1,3-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/20/24 12:40	1
1,4-Dichlorobenzene	1.0	U	2.0	0.31	ug/L			05/20/24 12:40	1
Dichlorobromomethane	1.0	U	2.0	0.25	ug/L			05/20/24 12:40	1
Dichlorodifluoromethane	1.0	U	2.0	0.36	ug/L			05/20/24 12:40	1
1,1-Dichloroethane	1.0	U	2.0	0.33	ug/L			05/20/24 12:40	1
1,2-Dichloroethane	1.0	U M	2.0	0.25	ug/L			05/20/24 12:40	1
1,1-Dichloroethene	1.0	U	2.0	0.33	ug/L			05/20/24 12:40	1
1,2-Dichloropropane	0.50	U	1.0	0.22	ug/L			05/20/24 12:40	1
1,3-Dichloropropane	1.0	U	2.0	0.36	ug/L			05/20/24 12:40	1
2,2-Dichloropropane	1.0	U	2.0	0.35	ug/L			05/20/24 12:40	1
1,1-Dichloropropene	1.0	U	2.0	0.28	ug/L			05/20/24 12:40	1
Ethyl acetate	NC		20	5.0	ug/L			05/20/24 12:40	1
Ethylbenzene	0.50	U M	1.0	0.20	ug/L			05/20/24 12:40	1
Ethylene Dibromide	1.0	U	2.0	0.33	ug/L			05/20/24 12:40	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-838791/8
Matrix: Water
Analysis Batch: 838791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	5.0	0.22	ug/L			05/20/24 12:40	1
Hexane	2.0	U	5.0	0.65	ug/L			05/20/24 12:40	1
2-Hexanone	10	U	20	3.2	ug/L			05/20/24 12:40	1
Iodomethane	10	U	20	3.9	ug/L			05/20/24 12:40	1
Isopropylbenzene	1.0	U	2.0	0.26	ug/L			05/20/24 12:40	1
Isopropyl ether	NC		10	0.70	ug/L			05/20/24 12:40	1
4-Isopropyltoluene	1.0	U	2.0	0.44	ug/L			05/20/24 12:40	1
Methylene Chloride	10	U	20	3.2	ug/L			05/20/24 12:40	1
4-Methyl-2-pentanone (MIBK)	10	U	20	2.7	ug/L			05/20/24 12:40	1
Methyl tert-butyl ether	2.0	U	5.0	0.81	ug/L			05/20/24 12:40	1
m-Xylene & p-Xylene	1.0	U	2.0	0.49	ug/L			05/20/24 12:40	1
Naphthalene	5.0	U	10	2.4	ug/L			05/20/24 12:40	1
n-Butylbenzene	2.0	U	2.5	0.52	ug/L			05/20/24 12:40	1
n-Heptane	1.0	U	2.0	0.43	ug/L			05/20/24 12:40	1
N-Propylbenzene	1.0	U	2.0	0.41	ug/L			05/20/24 12:40	1
o-Xylene	1.0	U	2.0	0.26	ug/L			05/20/24 12:40	1
sec-Butylbenzene	2.0	U	2.5	0.53	ug/L			05/20/24 12:40	1
Styrene	1.0	U	2.0	0.27	ug/L			05/20/24 12:40	1
tert-Butylbenzene	1.0	U	2.0	0.43	ug/L			05/20/24 12:40	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	0.36	ug/L			05/20/24 12:40	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	0.40	ug/L			05/20/24 12:40	1
Tetrachloroethene	1.0	U	2.0	0.35	ug/L			05/20/24 12:40	1
Toluene	1.0	U	2.0	0.25	ug/L			05/20/24 12:40	1
trans-1,4-Dichloro-2-butene	5.0	U	10	1.3	ug/L			05/20/24 12:40	1
trans-1,2-Dichloroethene	1.0	U	2.0	0.34	ug/L			05/20/24 12:40	1
trans-1,3-Dichloropropene	1.0	U	2.0	0.23	ug/L			05/20/24 12:40	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.81	ug/L			05/20/24 12:40	1
1,2,4-Trichlorobenzene	2.0	U	5.0	0.53	ug/L			05/20/24 12:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.21	ug/L			05/20/24 12:40	1
1,1,2-Trichloroethane	1.0	U	2.0	0.32	ug/L			05/20/24 12:40	1
Trichloroethene	0.50	U	1.0	0.20	ug/L			05/20/24 12:40	1
Trichlorofluoromethane	1.0	U	2.0	0.33	ug/L			05/20/24 12:40	1
1,2,3-Trichloropropane	1.0	U	2.0	0.48	ug/L			05/20/24 12:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.0	0.23	ug/L			05/20/24 12:40	1
1,2,4-Trimethylbenzene	1.0	U	2.0	0.43	ug/L			05/20/24 12:40	1
1,3,5-Trimethylbenzene	1.0	U	2.0	0.28	ug/L			05/20/24 12:40	1
Vinyl acetate	2.0	U M	2.5	0.69	ug/L			05/20/24 12:40	1
Vinyl chloride	1.0	U	2.0	0.40	ug/L			05/20/24 12:40	1
Xylenes, Total	1.0	U	2.0	0.49	ug/L			05/20/24 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*05/20/24 12:40*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 119*		*05/20/24 12:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*05/20/24 12:40*	*1*
Toluene-d8 (Surr)	*107*		*89 - 112*		*05/20/24 12:40*	*1*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-838791/4
Matrix: Water
Analysis Batch: 838791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	205		ug/L		82	39 - 160
Benzene	50.0	54.5		ug/L		109	79 - 120
Bromobenzene	50.0	49.6		ug/L		99	80 - 120
Bromoform	50.0	42.6		ug/L		85	66 - 130
Bromomethane	50.0	49.6		ug/L		99	53 - 141
2-Butanone (MEK)	250	235		ug/L		94	56 - 143
Carbon disulfide	50.0	51.6		ug/L		103	64 - 133
Carbon tetrachloride	50.0	56.4		ug/L		113	72 - 136
Chlorobenzene	50.0	48.6		ug/L		97	82 - 118
Chlorobromomethane	50.0	55.9		ug/L		112	78 - 123
Chlorodibromomethane	50.0	49.7		ug/L		99	74 - 126
Chloroethane	50.0	53.4		ug/L		107	60 - 138
Chloroform	50.0	56.3		ug/L		113	79 - 124
Chloromethane	50.0	51.9		ug/L		104	50 - 139
2-Chlorotoluene	50.0	49.8		ug/L		100	79 - 122
4-Chlorotoluene	50.0	49.1		ug/L		98	78 - 122
cis-1,2-Dichloroethene	50.0	56.0		ug/L		112	78 - 123
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	75 - 124
1,2-Dibromo-3-Chloropropane	50.0	41.4		ug/L		83	62 - 128
Dibromomethane	50.0	50.4		ug/L		101	79 - 123
1,2-Dichlorobenzene	50.0	45.8		ug/L		92	80 - 119
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 119
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	79 - 118
Dichlorobromomethane	50.0	53.4		ug/L		107	79 - 125
Dichlorodifluoromethane	50.0	47.8		ug/L		96	32 - 152
1,1-Dichloroethane	50.0	54.7		ug/L		109	77 - 125
1,2-Dichloroethane	50.0	56.1		ug/L		112	73 - 128
1,1-Dichloroethene	50.0	58.0		ug/L		116	71 - 131
1,2-Dichloropropane	50.0	54.0		ug/L		108	78 - 122
1,3-Dichloropropane	50.0	51.9		ug/L		104	80 - 119
2,2-Dichloropropane	50.0	56.4		ug/L		113	60 - 139
1,1-Dichloropropene	50.0	55.0		ug/L		110	79 - 125
Ethylbenzene	50.0	49.4		ug/L		99	79 - 121
Ethylene Dibromide	50.0	50.4		ug/L		101	75 - 127
Hexachlorobutadiene	50.0	50.2		ug/L		100	66 - 134
Hexane	50.0	53.7		ug/L		107	48 - 143
2-Hexanone	250	249		ug/L		100	57 - 139
Iodomethane	50.0	56.8		ug/L		114	69 - 131
Isopropylbenzene	50.0	49.5		ug/L		99	72 - 131
4-Isopropyltoluene	50.0	47.0		ug/L		94	77 - 127
Methylene Chloride	50.0	53.2		ug/L		106	74 - 124
4-Methyl-2-pentanone (MIBK)	250	255		ug/L		102	67 - 130
Methyl tert-butyl ether	50.0	55.6		ug/L		111	71 - 124
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	80 - 121
Naphthalene	50.0	43.2		ug/L		86	61 - 128
n-Butylbenzene	50.0	52.0		ug/L		104	75 - 128
n-Heptane	50.0	52.5		ug/L		105	49 - 140
N-Propylbenzene	50.0	49.1		ug/L		98	76 - 126

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-838791/4
Matrix: Water
Analysis Batch: 838791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	50.0	49.1		ug/L		98	78 - 122
sec-Butylbenzene	50.0	52.8		ug/L		106	77 - 126
Styrene	50.0	49.9		ug/L		100	78 - 123
tert-Butylbenzene	50.0	52.9		ug/L		106	78 - 124
1,1,1,2-Tetrachloroethane	50.0	49.5		ug/L		99	78 - 124
1,1,2,2-Tetrachloroethane	50.0	44.0		ug/L		88	71 - 121
Tetrachloroethene	50.0	51.7		ug/L		103	74 - 129
Toluene	50.0	50.9		ug/L		102	80 - 121
trans-1,4-Dichloro-2-butene	50.0	46.3		ug/L		93	43 - 140
trans-1,2-Dichloroethene	50.0	56.4		ug/L		113	75 - 124
trans-1,3-Dichloropropene	50.0	51.2		ug/L		102	73 - 127
1,2,3-Trichlorobenzene	50.0	46.3		ug/L		93	69 - 129
1,2,4-Trichlorobenzene	50.0	44.2		ug/L		88	69 - 130
1,1,1-Trichloroethane	50.0	55.1		ug/L		110	74 - 131
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	80 - 119
Trichloroethene	50.0	55.7		ug/L		111	79 - 123
Trichlorofluoromethane	50.0	48.3		ug/L		97	65 - 141
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.1		ug/L		114	70 - 136
1,2,4-Trimethylbenzene	50.0	47.6		ug/L		95	76 - 124
1,3,5-Trimethylbenzene	50.0	51.5		ug/L		103	75 - 124
Vinyl acetate	100	139		ug/L		139	54 - 146
Vinyl chloride	50.0	51.2		ug/L		102	58 - 137
Xylenes, Total	100	99.1		ug/L		99	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*
Dibromofluoromethane (Surr)	*111*		*80 - 119*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*
Toluene-d8 (Surr)	*108*		*89 - 112*

Lab Sample ID: LCSD 680-838791/5
Matrix: Water
Analysis Batch: 838791

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
Acetone	250	216		ug/L		87	39 - 160	5	20
Benzene	50.0	54.5		ug/L		109	79 - 120	0	20
Bromobenzene	50.0	49.2		ug/L		98	80 - 120	1	20
Bromoform	50.0	43.4		ug/L		87	66 - 130	2	20
Bromomethane	50.0	52.0		ug/L		104	53 - 141	5	20
2-Butanone (MEK)	250	244		ug/L		98	56 - 143	4	20
Carbon disulfide	50.0	49.4		ug/L		99	64 - 133	4	20
Carbon tetrachloride	50.0	53.6		ug/L		107	72 - 136	5	20
Chlorobenzene	50.0	47.5		ug/L		95	82 - 118	2	20
Chlorobromomethane	50.0	56.5		ug/L		113	78 - 123	1	20
Chlorodibromomethane	50.0	50.5		ug/L		101	74 - 126	2	20
Chloroethane	50.0	52.3		ug/L		105	60 - 138	2	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-838791/5
Matrix: Water
Analysis Batch: 838791

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	55.5		ug/L		111	79 - 124	1	20
Chloromethane	50.0	51.1		ug/L		102	50 - 139	2	20
2-Chlorotoluene	50.0	48.4		ug/L		97	79 - 122	3	20
4-Chlorotoluene	50.0	48.9		ug/L		98	78 - 122	0	20
cis-1,2-Dichloroethene	50.0	54.7		ug/L		109	78 - 123	2	20
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	75 - 124	1	20
1,2-Dibromo-3-Chloropropane	50.0	43.4		ug/L		87	62 - 128	5	20
Dibromomethane	50.0	51.4		ug/L		103	79 - 123	2	20
1,2-Dichlorobenzene	50.0	46.2		ug/L		92	80 - 119	1	20
1,3-Dichlorobenzene	50.0	46.6		ug/L		93	80 - 119	0	20
1,4-Dichlorobenzene	50.0	46.9		ug/L		94	79 - 118	1	20
Dichlorobromomethane	50.0	53.0		ug/L		106	79 - 125	1	20
Dichlorodifluoromethane	50.0	46.5		ug/L		93	32 - 152	3	20
1,1-Dichloroethane	50.0	53.4		ug/L		107	77 - 125	3	20
1,2-Dichloroethane	50.0	55.0		ug/L		110	73 - 128	2	20
1,1-Dichloroethene	50.0	55.7		ug/L		111	71 - 131	4	20
1,2-Dichloropropane	50.0	53.4		ug/L		107	78 - 122	1	20
1,3-Dichloropropane	50.0	53.1		ug/L		106	80 - 119	2	20
2,2-Dichloropropane	50.0	54.1		ug/L		108	60 - 139	4	20
1,1-Dichloropropene	50.0	54.1		ug/L		108	79 - 125	2	20
Ethylbenzene	50.0	48.5		ug/L		97	79 - 121	2	20
Ethylene Dibromide	50.0	52.2		ug/L		104	75 - 127	4	20
Hexachlorobutadiene	50.0	48.7		ug/L		97	66 - 134	3	20
Hexane	50.0	50.2		ug/L		100	48 - 143	7	20
2-Hexanone	250	260		ug/L		104	57 - 139	4	20
Iodomethane	50.0	54.7		ug/L		109	69 - 131	4	20
Isopropylbenzene	50.0	47.7		ug/L		95	72 - 131	4	20
4-Isopropyltoluene	50.0	45.4		ug/L		91	77 - 127	4	20
Methylene Chloride	50.0	52.9		ug/L		106	74 - 124	1	20
4-Methyl-2-pentanone (MIBK)	250	263		ug/L		105	67 - 130	3	20
Methyl tert-butyl ether	50.0	56.4		ug/L		113	71 - 124	1	20
m-Xylene & p-Xylene	50.0	48.3		ug/L		97	80 - 121	3	20
Naphthalene	50.0	44.0		ug/L		88	61 - 128	2	20
n-Butylbenzene	50.0	49.5		ug/L		99	75 - 128	5	20
n-Heptane	50.0	48.7		ug/L		97	49 - 140	8	20
N-Propylbenzene	50.0	47.8		ug/L		96	76 - 126	3	20
o-Xylene	50.0	48.0		ug/L		96	78 - 122	2	20
sec-Butylbenzene	50.0	50.3		ug/L		101	77 - 126	5	20
Styrene	50.0	49.4		ug/L		99	78 - 123	1	20
tert-Butylbenzene	50.0	50.8		ug/L		102	78 - 124	4	20
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/L		98	78 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	71 - 121	4	20
Tetrachloroethene	50.0	50.3		ug/L		101	74 - 129	3	20
Toluene	50.0	49.7		ug/L		99	80 - 121	2	20
trans-1,4-Dichloro-2-butene	50.0	45.9		ug/L		92	43 - 140	1	20
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	75 - 124	4	20
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	73 - 127	0	20
1,2,3-Trichlorobenzene	50.0	47.4		ug/L		95	69 - 129	2	20
1,2,4-Trichlorobenzene	50.0	44.5		ug/L		89	69 - 130	0	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-838791/5
Matrix: Water
Analysis Batch: 838791

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-Trichloroethane			50.0	53.6		ug/L		107	74 - 131	3	20
1,1,2-Trichloroethane			50.0	51.5		ug/L		103	80 - 119	0	20
Trichloroethene			50.0	54.4		ug/L		109	79 - 123	2	20
Trichlorofluoromethane			50.0	41.9		ug/L		84	65 - 141	14	20
1,2,3-Trichloropropane			50.0	46.1		ug/L		92	73 - 122	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.8		ug/L		108	70 - 136	6	20
1,2,4-Trimethylbenzene			50.0	46.6		ug/L		93	76 - 124	2	20
1,3,5-Trimethylbenzene			50.0	49.4		ug/L		99	75 - 124	4	20
Vinyl acetate			100	137		ug/L		137	54 - 146	1	20
Vinyl chloride			50.0	50.0		ug/L		100	58 - 137	2	20
Xylenes, Total			100	96.3		ug/L		96	79 - 121	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*
Dibromofluoromethane (Surr)	*113*		*80 - 119*
1,2-Dichloroethane-d4 (Surr)	*107*		*81 - 118*
Toluene-d8 (Surr)	*107*		*89 - 112*

QC Association Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

GC/MS VOA

Analysis Batch: 838498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250515-1	MW-148	Total/NA	Water	8260D	
680-250515-2	MW-147	Total/NA	Water	8260D	
680-250515-3	MW-142	Total/NA	Water	8260D	
680-250515-4	DUP-GW-20240508	Total/NA	Water	8260D	
MB 680-838498/10	Method Blank	Total/NA	Water	8260D	
LCS 680-838498/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-838498/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 838791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250515-3	MW-142	Total/NA	Water	8260D	
MB 680-838791/8	Method Blank	Total/NA	Water	8260D	
LCS 680-838791/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-838791/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Client Sample ID: MW-148

Date Collected: 05/08/24 15:45
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-1

Matrix: Water

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	838498	05/17/24 17:54	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-147

Date Collected: 05/08/24 16:05
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-2

Matrix: Water

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	838498	05/17/24 18:17	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-142

Date Collected: 05/08/24 16:35
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-3

Matrix: Water

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	838498	05/17/24 18:40	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	838791	05/20/24 14:31	P1C	EET SAV
	Instrument ID: CMSAH									

Client Sample ID: DUP-GW-20240508

Date Collected: 05/08/24 00:00
Date Received: 05/09/24 10:53

Lab Sample ID: 680-250515-4

Matrix: Water

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	838498	05/17/24 19:02	P1C	EET SAV
	Instrument ID: CMSAB									

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: 680-250515-1
Project/Site: Tarheel Army Missile Plant

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	269	12-31-24

Method Summary

Client: Terracon Consultants, Inc.
Project/Site: Tarheel Army Missile Plant

Job ID: 680-250515-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

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 Fax: 912-352-0165

Chain of Custody Record

* send results to ethan.dinwiddie@terracon.com *

eurofins | Environment Testing

Client Information	Sampler: Alexander Manoiukas	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-156305-56029.1
Client Contact: Mr. Ethan Dinwiddie	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: Terracon Consultants, Inc.	PWSID:	Analysis Requested		Job #:
Address: 2401 Brentwood Road Suite 107	Due Date 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:
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27604	Compliance Project: Δ Yes Δ No			
Phone: 919-436-2965(Tel)	PO #: 70237017			
Email: ethan.dinwiddie@terracon.com	WO #: 70237017			
Project Name: Tarheel Army Missile Plant	Project #: 68030576			
Site:	SSOW#:			

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)	8260D - VOCs-NC 02L List - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-148	5/8/24	1545	G	W			X		
MW-147	"	1605	G	W			X		
MW-142	"	1635	G	W			X		
DUP-GW-20240508	"	—	G	W			X		
Trip Blank	—	—	—	W			X		On hold

680-250515 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 Archive For ____ Months

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
	5-8-24 / 1845	Terracon		5-9-24 1053	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 1.2 / 1.3

Login Sample Receipt Checklist

Client: Terracon Consultants, Inc.

Job Number: 680-250515-1

Login Number: 250515

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	

Appendix E
Non-Hazardous Waste Manifests

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1227335
CELL			
WEIGHMASTER	Cathy T.		
DATE/TIME IN	3/4/24 2:27 pm	DATE/TIME OUT	3:05 pm
VEHICLE	02	CONTAINER	
REFERENCE	NH-1		
BILL OF LADING			

SCALE IN	GROSS WEIGHT	53,280	NET TONS	12.02	INBOUND
SCALE OUT	TARE WEIGHT	29,240	NET WEIGHT	24,040	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
12.02	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

RS-F042UPR (04/19)

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-01	1

d. Generator's Name and Location:
United States Army Corps of Engineers
204 N Graham Hopedale Rd
Burlington, NC 27217
f. Phone:912-652-6007

e. Generator's Mailing Address:
United States Army Corps of Engineers
100 W Oglethorpe Ave
Savannah, GA 31401
g. Phone:912-652-6007

If owner of the generating facility differs from the generator, provide:

h. Owner's Name:

i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator/Authorized Agent Name (Print)	q. Signature	r. Date
Payton Bonner	p.benner	03/04/2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
TRUCK #: 61
b. Phone: 910-763-6274

c. Driver Name (Print)	d. Signature	e. Date
Robert Bann	Robert Bann	3-4-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facilty and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C T Ingen	Cathy Dinger	3/4/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:
N/A

b. Phone:

c. Responsible Agency Name and Address:
NC Department of Health and Human Services - Health Hazards CU
1912 Mail Service Center
Raleigh, NC 27699-1912
d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1227294
CELL			
WEIGHMASTER	Cathy T.		
DATE/TIME IN	3/4/24 11:03 am	DATE/TIME OUT	3/4/24 11:40 am
VEHICLE	02	CONTAINER	
REFERENCE	NH-02		
BILL OF LADING			

SCALE IN GROSS WEIGHT 66,880 NET TONS 17.06
SCALE OUT TARE WEIGHT 32,760 NET WEIGHT 34,120

INBOUND
INVOICE

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
17.06	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

PUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-02	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03/04/2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert Baum	3-4-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tinsley	Cathy Tinsley	3/4/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

01 1227550

IN - Jacqueline J. OUT - Danielle

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/6/24 1:11 pm 3/6/24 1:35 pm

RO-210

NH-03

Contract:3038243080
Generator:United States Army Corps of Engineers

SCALE IN	GROSS WEIGHT	70,660	NET TONS	17.85	INBOUND
SCALE OUT	TARE WEIGHT	34,960	NET WEIGHT	35,700	INVOICE

0.00 YD Tracking QTY
17.85 tn SW-CONT SOIL Origin:ALAMANCE 100%
-

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

By signing below, you acknowledge that you have read and understands the terms and conditions of this agreement and that you are duly authorized to sign this document on behalf of the customer.

RS-F042UPBL (06/13)

1227550

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NA-03	1

d. Generator's Name and Location:
United States Army Corps of Engineers
204 N Graham Hopedale Rd
Burlington, NC 27217
f. Phone:912-652-6007

e. Generator's Mailing Address:
United States Army Corps of Engineers
100 W Oglethorpe Ave
Savannah, GA 31401
g. Phone:912-652-6007

If owner of the generating facility differs from the generator, provide:

h. Owner's Name:

i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Dustin Bonner		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 70 10

c. Driver Name (Print)	d. Signature	e. Date
Todd Brown		3-6-2024

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
D. Layell		3-6-24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:
N/A

b. Phone:

c. Responsible Agency Name and Address:
NC Department of Health and Human Services - Health Hazards CU
1912 Mail Service Center
Raleigh, NC 27699-1912
d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 ~~OXFORD~~ RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1227177
CELL			
WEIGHMASTER	Cathy T.		
DATE/TIME IN	8/1/24 9:17 am	DATE/TIME OUT	8/1/24 11:10 am
VEHICLE	02	CONTAINER	
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT 47,500 NET TONS 8.71
SCALE OUT TARE WEIGHT 30,080 NET WEIGHT 17,420

~~INBOUND~~
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
8.71	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

01

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-04	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03/01/2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
ROBERT BAUM	Robert Baum	3-1-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Turner	Cathy Turner	2/1/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1227219 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/1/24 1:39 pm | DATE/TIME OUT 3/1/24 2:31 pm

VEHICLE 02 | CONTAINER

REFERENCE NH-05

BILL OF LADING

SCALE IN	GROSS WEIGHT	55,360	NET TONS	12.28
SCALE OUT	TARE WEIGHT	30,800	NET WEIGHT	24,560

~~INBOUND~~
INVOICE

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
12.28	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event the undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE _____

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-05	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	P Benner	03/01/2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Bavm	Robert Bavm	3-1-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tingen	Cathy Tingen	3/1/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

01 1228421

Cathy T.

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/18/24 8:57 am 3/18/24 9:22 am

RO3

NH06

Contract:3038243080
Generator:United States Army Corps of Engineers

SCALE IN	GROSS WEIGHT	62,420	NET TONS	13.74
SCALE OUT	TARE WEIGHT	34,940	NET WEIGHT	27,480

INBOUND
INVOICE

0.00 YD Tracking QTY
13.74 tn SW-CONT SOIL Origin:ALAMANCE 100%

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility, in the

RS-F042UPBL (06/13)

PUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	[illegible]	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, If this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-18-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 20 10

c. Driver Name (Print)	d. Signature	e. Date
Todd Bryant	[signature]	3-18-2024

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
CTinsley	Cathy Tinsley	3/18/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

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UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

01 1227583

Danielle L.

3/6/24 4:01 pm 3/6/24 4:11 pm

BC-210

XS-77

[illegible]
[illegible] ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3009243080
Generator:United States Army Corps of Engineers

SCALE IN GROSS WEIGHT 62,780 NET TONS 13.71
SCALE OUT TARE WEIGHT 35,340 NET WEIGHT 27,420

INBOUND
INVOICE

1.00 YD Teaching 25%
13.71 TN BY-PRODUCT SOIL Origin:ALEXANCE 1009

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC its Subsidiaries affiliates employees officers and directors from and against any and all liabilities claims penalties forfeitures suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees or subcontractors in disposing waste at this Facility, in the

RS-F042UPBL (08/13)

JBLIC
ERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NHG	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Hunter Kenney		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 20 1

c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
D. L Pycock		3-6-24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

01 1228459

Cathy T.

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/18/24 11:31 am 3/18/24 11:52 am

001

nh-08

Contract:3038243080
Generator:United States Army Corps of Engineers

SCALE IN	GROSS WEIGHT	53,500	NET TONS	12.15	INBOUND
SCALE OUT	TARE WEIGHT	29,200	NET WEIGHT	24,300	INVOICE

0.00	YD	Tracking QTY	
12.15	tn	SW-CONT SOIL	Origin:ALAMANCE 100%

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

RS-F042UPBL (06/13)

JBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

01

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-08	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-18-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert Baum	3-18-2024

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
J Tinger	Colton Tinger	3/18/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1227439 | CELL

WEIGHMASTER Jacqueline J.

DATE/TIME IN 3/5/24 1:37 pm | DATE/TIME OUT 3/5/24 2:24 pm

VEHICLE 02 | CONTAINER

REFERENCE NH09

BILL OF LADING

SCALE IN GROSS WEIGHT 60,740 NET TONS 14.98
SCALE OUT TARE WEIGHT 30,780 NET WEIGHT 29,960

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.98	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE Richard Rawls

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

a. Transporter's Name and Address:
SR&R Environmental, Inc

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH09	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	 i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Dayton Bennett	[signature]	3-5-24

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 02

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert Baum	3-5-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tyson	[signature]	3/5/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD ROUGEMONT, NC 27572

01 **1228453**

Cathy T.

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/18/24 10:27 am 3/18/24 11:33 am

S-31

NH-10

Contract:3038243080
Generator:United States Army Corps of Engineers

SCALE IN	GROSS WEIGHT	63,020	NET TONS	14.50
SCALE OUT	TARE WEIGHT	34,020	NET WEIGHT	29,000

INBOUND
INVOICE

0.00	YD	Tracking QTY	
14.50	tn	SW-CONT SOIL	Origin:ALAMANCE 100%

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

RS-F042UPBL (06/13)

...VICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

S31

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-18	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-18-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: Kimberly Leary 3-18-24
S-31 Stewart Gradus

c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tmagn	Cathy Singer	3/18/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228604 | CELL

WEIGHMASTER IN - Cathy T. OUT - Danielle L.

DATE/TIME IN 3/19/24 12:27 pm | DATE/TIME OUT 3/19/24 1:09 pm

VEHICLE LIFT 402 | CONTAINER

REFERENCE NH-11

BILL OF LADING

SCALE IN GROSS WEIGHT 68,560 NET TONS 15.47
SCALE OUT TARE WEIGHT 37,620 NET WEIGHT 30,940

INBOUND
INVOICE

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.47	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event the undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

a. Transporter's Name and Address:
SR&R Environmental, Inc

SLIC
.CES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

402

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA		1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-19-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 105

c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent: (Print)	f. Signature	g. Date
C Tinga	Cathy Dingus	3/19/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

01 1228568

Cathy T.

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/19/24 10:18 am 3/19/24 10:29 am

001

NH-12

Contract:3038243080
Generator:United States Army Corps of Engineers

MANUAL IN	GROSS WEIGHT	54,580	NET TONS	12.36	INBOUND
SCALE OUT	TARE WEIGHT	29,860	NET WEIGHT	24,720	INVOICE

0.00	YD	Tracking QTY
12.36	tn	SW-CONT SOIL

Origin:ALAMANCE 100%

Signature

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

RS-F042UPBL (06/13)

PUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-12	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
[illegible]	[illegible]	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert A Baum	3-19-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tinger	Cathy Tinger	3/19/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228749 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/20/24 2:11 pm | DATE/TIME OUT 3/20/24 2:39 pm

VEHICLE RO-210 | CONTAINER

REFERENCE NH-13

BILL OF LADING

SCALE IN GROSS WEIGHT 63,400 NET TONS 13.34
SCALE OUT TARE WEIGHT 36,720 NET WEIGHT 26,680

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
13.34	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT

TENDERED

CHANGE

CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-13	1

d. Generator's Name and Location:
United States Army Corps of Engineers
204 N Graham Hopedale Rd
Burlington, NC 27217
f. Phone:912-652-6007

e. Generator's Mailing Address:
United States Army Corps of Engineers
100 W Oglethorpe Ave
Savannah, GA 31401
g. Phone:912-652-6007

If owner of the generating facility differs from the generator, provide:

h. Owner's Name:

I. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Tanton Bennick		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 20 10

c. Driver Name (Print)	d. Signature	e. Date
Todd Bryan		3.20.2024

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Myers	Kathy Danger	3/20/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:
N/A

b. Phone:

c. Responsible Agency Name and Address:
NC Department of Health and Human Services - Health Hazards CU
1912 Mail Service Center
Raleigh, NC 27699-1912
d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1228819
CELL			
WEIGHMASTER	Cathy T.		
DATE/TIME IN	3/21/24 9:59 am	DATE/TIME OUT	3/21/24 10:16 am
VEHICLE	0100	CONTAINER	
REFERENCE	NH-14		
BILL OF LADING			

SCALE IN	GROSS WEIGHT	59,560	NET TONS	14.85
SCALE OUT	TARE WEIGHT	29,860	NET WEIGHT	29,700

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.85	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

PUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

01

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-14	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, If this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-21-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert Baum	3-21-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tragen	Cathy Tragen	3/21/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228701 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/20/24 11:11 am | DATE/TIME OUT 3/20/24 11:42 am

VEHICLE LIFT 402 | CONTAINER

REFERENCE NH-15

BILL OF LADING

SCALE IN	GROSS WEIGHT	68,140	NET TONS	15.33
SCALE OUT	TARE WEIGHT	37,480	NET WEIGHT	30,660

INBOUND
INVOICE

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.33	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	NH-15	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Renner	Payton Renner	03-20-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 402

c. Driver Name (Print)	d. Signature	e. Date
Sean Ramos	S	3-20-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Timber	Cathy Dungan	3/20/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE **UPPER PIEDMONT ENVIRONMENTAL 336-364-3699**
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01
TICKET #	1228608
CELL	
WEIGHMASTER	Danielle L.
DATE/TIME IN	3/19/24 1:16 pm
DATE/TIME OUT	3/19/24 1:37 pm
VEHICLE	001
CONTAINER	
REFERENCE	H-05
BILL OF LADING	

SCALE IN GROSS WEIGHT 50,760 NET TONS 10.52 INBOUND
SCALE OUT TARE WEIGHT 29,720 NET WEIGHT 21,040 INVOICE

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
10.52	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

JCB

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	4-05	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Dustin Benner	[signature]	03-19-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	[signature]	3-19-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Danielle Laycock	[signature]	3-19-24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

01 **1228510**

Jacqueline J.

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/18/24 3:23 pm 3/18/24 3:51 pm

001

H0-6

Contract:3038243080
Generator:United States Army Corps of Engineers

SCALE IN	GROSS WEIGHT	54,700	NET TONS	12.46
SCALE OUT	TARE WEIGHT	29,780	NET WEIGHT	24,920

INBOUND
INVOICE

0.00 YD Tracking QTY
12.46 tn SW-CONT SOIL Origin:ALAMANCE 100%

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

By signing below, I acknowledge that I have read and understand the terms and conditions on this and all pages of this document and agree to be bound by those terms and conditions as the customer.

...ES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	4-06	1 01

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, If this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-18-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert Baum	3-18-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Jackie Jones	Jackie Jones	3-18-24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD ROUGEMONT, NC 27572

01 1228513

Jacqueline J.

333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

3/18/24 3:34 pm 3/18/24 3:59 pm

RO3

RO10

Contract:3038243080
Generator:United States Army Corps of Engineers

SCALE IN	GROSS WEIGHT	59,180	NET TONS	12.20	INBOUND
SCALE OUT	TARE WEIGHT	34,780	NET WEIGHT	24,400	INVOICE

0.00	YD	Tracking QTY	
12.20	tn	SW-CONT SOIL	Origin:ALAMANCE 100%

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

RS-F042UPBL (06/13)

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	4-07	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	 i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Bunner	PBunner	03-18-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
TRUCK #: _____
b. Phone: 910-763-6274

c. Driver Name (Print)	d. Signature	e. Date
Colt Bryant		3-18-2024

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
[illegible]	[illegible]	3/18/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

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SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1228630
CELL			
WEIGHMASTER	Danielle L.		
DATE/TIME IN	3/19/24 3:34 pm	DATE/TIME OUT	3/19/24 4:04 pm
VEHICLE	LIFT 402	CONTAINER	
REFERENCE	H-08		
BILL OF LADING			

SCALE IN GROSS WEIGHT 64,140 NET TONS 13.49
SCALE OUT TARE WEIGHT 37,160 NET WEIGHT 26,980

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
13.49	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

a. Transporter's Name and Address:

PUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

LCA

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	[illegible]	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	 i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
[illegible]	[illegible]	[illegible]

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 403

c. Driver Name (Print)	d. Signature	e. Date
[illegible]	[illegible]	3-19-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
D. Laycock	[illegible]	3-19-24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 ~~OXFORD~~ RD-ROUGEMONT, NC 27572

CUSTOMER 333388
S&B ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243083
Generator:United States Army Corps of Engineers

SITE 01	TICKET # 1228659	CELL	
WEIGHMASTER	Cathy T.		
DATE/TIME IN	3/20/24 8:15 am	DATE/TIME OUT	3/20/24 8:49 am
VEHICLE	DET 402	CONTAINER	
REFERENCE	H-09		
BILL OF LADING			

SCALE IN GROSS WEIGHT 65,660 NET TONS 14.18
SCALE OUT TARE WEIGHT 37,300 NET WEIGHT 28,360

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
8.00	YD	Tracking QTY				
14.18	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

BLIC
VICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	4-09	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	Pbenner	03-20-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 52

c. Driver Name (Print)	d. Signature	e. Date
Dean Barnes	Dean	3-20-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tinger	Cathy Stinger	3/20/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1228746
CELL			
WEIGHMASTER	Cathy T.		
DATE/TIME IN	3/20/24 1:59 pm	DATE/TIME OUT	3/20/24 2:32 pm
VEHICLE	LIFT 402	CONTAINER	
REFERENCE	WAP-01		
BILL OF LADING			

SCALE IN	GROSS WEIGHT	65,600	NET TONS	14.09
SCALE OUT	TARE WEIGHT	37,420	NET WEIGHT	28,180

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.09	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event the undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

...CES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-01	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	10 2011 MOV	03-20-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 402

c. Driver Name (Print)	d. Signature	e. Date
Sean Benner		3-20-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Cathy Tungen	Cathy Tungen	3/20/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228842 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/21/24 11:19 am | DATE/TIME OUT 3/21/24 11:48 am

VEHICLE LIFT 402 | CONTAINER

REFERENCE WAP-02

BILL OF LADING

SCALE IN	GROSS WEIGHT	68,000	NET TONS	15.42
SCALE OUT	TARE WEIGHT	37,160	NET WEIGHT	30,840

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.42	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-02	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-21-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 402

c. Driver Name (Print)	d. Signature	e. Date
Sean Ronan		3-21-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
D Tinga	Cathy Kingsi	3/21/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1228860
CELL			
WEIGHMASTER	Danielle L.		
DATE/TIME IN	3/21/24 12:43 pm	DATE/TIME OUT	3/21/24 1:03 pm
VEHICLE	0100	CONTAINER	
REFERENCE	WAP-03		
BILL OF LADING			

SCALE IN GROSS WEIGHT 58,400 NET TONS 14.08
SCALE OUT TARE WEIGHT 30,240 NET WEIGHT 28,160

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.08	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event that the undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

JCB

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-03	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-21-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 01

c. Driver Name (Print)	d. Signature	e. Date
Robert Baum	Robert Baum	3-21-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
D. Laycock	Dawn Laycock	3-21-24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE **UPPER PIEDMONT ENVIRONMENTAL 336-364-3699**
9650 OXFORD ~~RD~~ ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038242261
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228767 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/20/24 3:40 pm | DATE/TIME OUT 3/20/24 4:08 pm

VEHICLE LIFT 403 | CONTAINER

REFERENCE WAP-04

BILL OF LADING

SCALE IN	GROSS WEIGHT	67,380	NET TONS	15.94
SCALE OUT	TARE WEIGHT	35,500	NET WEIGHT	31,880

~~INBOUND~~
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.94	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-04	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Dustin Bonner		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #:_____

c. Driver Name (Print)	d. Signature	e. Date
[illegible]	[illegible]	3/20/24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Caleb Ranson	[illegible]	03-20-2024

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038242261
Generator:United States Army Corps of Engineers

SITE	01	TICKET #	1228718
CELL			
WEIGHMASTER	IN - Cathy T. OUT - Danielle L.		
DATE/TIME IN	3/20/24 12:05 pm	DATE/TIME OUT	3/20/24 12:41 pm
VEHICLE	LIFT 403	CONTAINER	
REFERENCE	WAP-05		
BILL OF LADING			

SCALE IN	GROSS WEIGHT	63,420	NET TONS 13.99
SCALE OUT	TARE WEIGHT	35,440	NET WEIGHT 27,980

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
13.99	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

a. Transporter's Name and Address:

PUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-05	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-20-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 407

c. Driver Name (Print)	d. Signature	e. Date
Caleb Ransom		03-20-2024

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Tiger	Cathy Dungan	3/20/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 CLIFFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228817 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/21/24 9:48 am | DATE/TIME OUT 3/21/24 10:05 am

VEHICLE RO-10 | CONTAINER

REFERENCE WAP-06

BILL OF LADING

SCALE IN GROSS WEIGHT 65,220 NET TONS 15.14
SCALE OUT TARE WEIGHT 34,940 NET WEIGHT 30,280

~~INBOUND~~
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.14	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT

TENDERED

CHANGE

CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-04	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-21-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: _____

c. Driver Name (Print)	d. Signature	e. Date
Todd Boyett		3-21-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Thrower	Cathy Thrower	3/21/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMONT ENVIRONMENTAL 336-364-3699
9650 OXFORD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1228801 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 3/21/24 8:19 am | DATE/TIME OUT 3/21/24 8:55 am

VEHICLE LIFT 402 | CONTAINER

REFERENCE WAP-07

BILL OF LADING

SCALE IN GROSS WEIGHT 66,780 NET TONS 14.78
SCALE OUT TARE WEIGHT 37,220 NET WEIGHT 29,560

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.78	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-07	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	pbenner	03-21-2024

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 402

c. Driver Name (Print)	d. Signature	e. Date
Sean Ram	S	3-21-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
Stinson	Cathy Stinson	3/24/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE **UPPER PIEDMONT ENVIRONMENTAL 336-364-3699**
9650 OVERD RD-ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:3038243080
Generator:United States Army Corps of Engineers

SITE 01	TICKET # 1228777	CELL	
WEIGHMASTER	Cathy T.		
DATE/TIME IN	3/21/24 7:03 am	DATE/TIME OUT	3/21/24 7:33 am
VEHICLE	RO-10	CONTAINER	
REFERENCE	WAP-08		
BILL OF LADING			

SCALE IN GROSS WEIGHT 65,900 NET TONS 15.49 INBOUND
SCALE OUT TARE WEIGHT 34,920 NET WEIGHT 30,980 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
15.49	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature _____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS-F042UPR (04/19)

SIGNATURE _____

JBLIC
SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

Roll

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-08	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Payton Benner	PBenner	3/20/24

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: 2010

c. Driver Name (Print)	d. Signature	e. Date
Todd Bryan	Todd Bryan	3-20-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-330-1301	N/A	

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent: (Print)	f. Signature	g. Date
C Tigner	Cathy Tigner	3/21/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE UPPER PIEDMON ENVIRONMENTAL 336-364-3699
9650 OXFORD -ROUGEMONT, NC 27572

CUSTOMER 333388
SR&R ENVIRONMENTAL
PO Box 221
Wilmington, NC 28402

Contract:W038243C88C
Generator:United States Army Corps of Engineers

SITE 01 | TICKET # 1231366 | CELL

WEIGHMASTER Cathy T.

DATE/TIME IN 4/22/24 9:48 am | DATE/TIME OUT 4/22/24 10:01 am

VEHICLE RO-10 | CONTAINER

REFERENCE WAP-09

BILL OF LADING

SCALE IN GROSS WEIGHT 64,300 NET TONS 14.71
SCALE OUT TARE WEIGHT 34,880 NET WEIGHT 29,420

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
14.71	tn	SW-CONT SOIL Origin:ALAMANCE 100%				

Signature_____

Indemnification. Customer agrees to indemnify, hold harmless, and defend Republic Service of North Carolina, LLC, its Subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

RS I 042UPR (04/19)

SIGNATURE _____

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
NA	WAP-09	1

d. Generator's Name and Location:	e. Generator's Mailing Address:
United States Army Corps of Engineers 204 N Graham Hopedale Rd Burlington, NC 27217 f. Phone:912-652-6007	United States Army Corps of Engineers 100 W Oglethorpe Ave Savannah, GA 31401 g. Phone:912-652-6007
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3038243080	2/28/2025	Non-Hazardous Soil	1	RO	14.71	T

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Tracy Taylor		4-22-24

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
SR&R Environmental, Inc.
P.O. Box 221
Wilmington, NC 28402
b. Phone: 910-763-6274

TRUCK #: R0.10

c. Driver Name (Print)	d. Signature	e. Date
Todd Bryant		4-22-24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Upper Piedmont Environmental LF 9650 Oxford Road Rougemont, NC 27572 b. Phone: 336-390-1301	N/A	

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
C Tilson	Cathy Dingus	4/22/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
N/A b. Phone:	NC Department of Health and Human Services - Health Hazards CU 1912 Mail Service Center Raleigh, NC 27699-1912 d. Phone:919-707-5950

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
2405-0117		1	800-255-3924-M50007051	43562

Generator's Name and Mailing Address

Former Tarheel Army Missile Plant
912-652-6007 — 204 Graham-Hopedale Rd
Generator's Phone — Burlington, NC 27217

Generator's site address (if different from mailing address)

Transporter 1 [X] 2 [ ] Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: **NCD986232221**

Transporter 1 [ ] 2 [ ] Company Name: — US EPA ID No:

[X] Designated Facility
A&D Environmental Services, Inc.
2718 Uwharrie Road
Archdale, NC 27263
336-434-7750
NCD986232221

[ ] Designated Facility
A&D Environmental Services, Inc.
3149 Lear Drive
Burlington, NC 27215
336-229-0058
NCR000138628

[ ] Designated Facility (Please insert facility information below)

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non-Regulated Material (IDW-Solids)	029	DM	14,500	P	NC2022-0306
	Non-Regulated Material (IDW-Solids)	001	TP	1000	P	NC2022-0306

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA 1993, Fuel oil (No. 1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
	USED OIL (Not a USDOT Hazardous Material)						
	Petroleum Contact Water (Not a USDOT Hazardous Material)						

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN3506, Mercury contained in manufactured articles, 8 (6.1)	ERG# 172	Mercury Devices	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet non-spillable, 8	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium metal batteries, 9	ERG# 138	Lithium Metal Batteries	
X					UN3480, Lithium ion batteries, 9	ERG# 147	Lithium Ion Batteries	
					Batteries, dry, sealed n.o.s.		Alkaline Batteries	
					Batteries, dry, sealed n.o.s.		Dry NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Florescent lamps (4-Ft. and Under)	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Florescent lamps (Over 4-Ft.)	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Shielded Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts/Capacitors	
					Electronic Equipment for Recycle (Not DOT-Regulated)		e-Waste	

Shipper's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transport according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

	Printed/Typed Name	Signature	Month	Day	Year
Shipper's/ Offeror's	Payton Benner	pbenner	05	21	24
Transporter 1	Matt Wray	Matt Wray	05	21	24
Transporter 2					

Discrepancy Indication / Additional Information:

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY TO GENERATOR

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
2405-0117		1	800-255-3924-MS0007851	43563

Generator's Name and Mailing Address

Former Tarheel Army Missile Plant
204 Graham-Hopedale Rd
Burlington, NC 27217

912-652-6007
Generator's Phone

Generator's site address (if different from mailing address)

Transporter 1 ☒ 2 ☐ Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: **NCD986232221**

Transporter 1 ☐ 2 ☐ Company Name: — US EPA ID No:

☒ Designated Facility
A&D Environmental Services, Inc.
2718 Uwharrie Road
Archdale, NC 27263
336-434-7750
NCD986232221

☐ Designated Facility
A&D Environmental Services, Inc.
3149 Lear Drive
Burlington, NC 27215
336-229-0058
NCR000138628

☐ Designated Facility (Please insert facility information below)

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non-Regulated Material (IDW-Solids/PPE)	006	DM	2400	P	NC2022-0306
	Non-Regulated Material (IDW-Liquids)	005	DM	2000	P	NC2022-0313

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA 1993, Fuel oil (No. 1;2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
	USED OIL (Not a USDOT Hazardous Material)						
	Petroleum Contact Water (Not a USDOT Hazardous Material)						

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN3506, Mercury contained in manufactured articles, 8 (6.1)	ERG# 172	Mercury Devices	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet non-spillable, 8	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium metal batteries, 9	ERG# 138	Lithium Metal Batteries	
X					UN3480, Lithium ion batteries, 9	ERG# 147	Lithium Ion Batteries	
					Batteries, dry, sealed n.o.s.		Alkaline Batteries	
					Batteries, dry, sealed n.o.s.		Dry NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Florescent lamps (4-Ft. and Under)	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Florescent lamps (Over 4-Ft.)	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Shielded Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts/Capacitors	
					Electronic Equipment for Recycle (Not DOT-Regulated)		e-Waste	

Shipper's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transport according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

			Month	Day	Year
Shipper's/ Offeror's Printed/Typed Name: Payton Benner	Signature: pbenner		05	21	24
Transporter 1 Printed/Typed Name: Matt Wray	Signature: Matt Wray		05	21	24
Transporter 2 Printed/Typed Name:	Signature:				

Discrepancy Indication / Additional Information:

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY TO GENERATOR

Appendix F
Hazardous Waste Manifests

024193445JJK

Terracon Roll-off ID: H-01

TRK # 163 70240

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NC7 210 020 544	1	(800) 310-6757	024193445 JJK

5. Generator's Name and Mailing Address: FORMER TARHEEL ARMY MISSILE P
100 W Oglethorpe Ave
Savannah, GA 31401
Generator's Phone: (912) 547-4095

Generator's Site Address (if different than mailing address)
204 N Graham Hopedale Rd
Burlington, NC 27217

6. Transporter 1 Company Name: STAT — U.S. EPA ID Number: NCD 980 799 142

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PLAN — U.S. EPA ID Number: MID 000 724 831
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, Hazardous waste, solid, n.o.s., (Trichloroethene), 9, PGIII, ERG #171	1	CM	13	T	D040		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C24-0392-HDI / Chlorinated Solvent Contaminated Soil

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a)(if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tracey A Tapley — Signature — Month 4 Day 22 Year 24

GENERATOR

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TODD LAIL — Signature — Month 4 Day 22 Year 24
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H070			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: BARBARA MILLON — Signature — Month 4 Day 25 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

024193447JJK

Terracon Roll-off ID: H-02

OTR-2

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NC7 210 020 544	1	(800) 310-6757	024193447 JJK

GENERATOR

5. Generator's Name and Mailing Address: FORMER TARHEEL ARMY MISSILE PL
100 W Oglethorpe Ave
Savannah, GA 31401
Generator's Phone: (912) 547-4095

Generator's Site Address (if different than mailing address)
204 N Graham Hopedale Rd
Burlington, NC 27217

6. Transporter 1 Company Name: SRHC ENVIRONMENTAL — U.S. EPA ID Number: NC 0000926168

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PLAN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, Hazardous waste, solid, n.o.s., (Trichloroethene), 9, PGIII, ERG #171	1	CM	13	T	D040		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C24-0392-MDI / Chlorinated Solvent Contaminated Soil

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Trolan A Tooley — Signature — Month 4 Day 22 Year 24

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WILLIAM STOUT — Signature — Month 4 Day 22 Year 24

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H070			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Hayley Rios — Signature — Month 4 Day 15 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Terracon Roll-off ID: H-03

TK #160 74,040

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NC7 210 020 544	1	(800) 310-6757	024193444 JJK

GENERATOR

5. Generator's Name and Mailing Address: FORMER TARHEEL ARMY MISSILE PT
100 W Oglethorpe Ave
Savannah, GA 31401
Generator's Phone: (912) 647-4095

5. Generator's Site Address (if different than mailing address)
204 N Graham Hopedale Rd
Burlington, NC 27217

6. Transporter 1 Company Name: STAT — U.S. EPA ID Number: NCD 980 799 142

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PLAN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	NA3077, Hazardous waste, solid, n.o.s., (Trichloroethene), 9, PGIII, ERG #171	1	CM	13	T	D040		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C24-0392-MDI / Chlorinated Solvent Contaminated Soil

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tracey A Tapley — Signature — Month: 4 Day: 22 Year: 24

INT'L

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Maurice Wilson — Signature — Month: 4 Day: 22 Year: 24

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space: ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual 14.92T ok per Patrick Beccaria WSSR Enviro Mf 5-1-24

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H070			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kelly Saunders — Signature — Month: 4 Day: 24 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

177-BLC-O 5 55462 (Rev. 2/20)
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8782523j_DS 223

Terracon Roll-off ID: H-04

TR 161 WT 72,000 LB

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NC7 210 020 544	1	(800) 310-6757	024193446 JJK

5. Generator's Name and Mailing Address: FORMER TARHEEL ARMY MISSILE PL
100 W Oglethorpe Ave
Savannah, GA 31401
Generator's Phone: (912) 547-4095

Generator's Site Address (if different than mailing address)
204 N Graham Hopedale Rd
Burlington, NC 27217

6. Transporter 1 Company Name: STAT — U.S. EPA ID Number: NCD 980 799 142

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PLAN — U.S. EPA ID Number: MID 000 724 831
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	NA3077, Hazardous waste, solid, n.o.s., (Trichloroethene), 9, PGIII, ERG #171	1	CM	13	T	D040
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. C24-0392-MDI / Chlorinated Solvent Contaminated Soil

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tracey A Tapley — Signature — Month: 4 Day: 22 Year: 24

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DANNY L. ROARK — Signature — Month: 04 Day: 22 Year: 24
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual 14.67 T per Patrick Beccerra w/SSL Expires Apt 5-1-24
18b. Alternate Facility (or Generator) — Manifest Reference Number — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H070			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kay Saunders — Signature — Month: 4 Day: 24 Year: 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

177-BLC-O 5 55462 (Rev. 2/20)

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8782x23LDS_223

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NC7210020544	1	800-255-3924-MI50007951	017110066 FLE

GENERATOR

5. Generator's Name and Mailing Address
Former Tarheel Army Missile Plant
204 Graham-Hopedale Road
Burlington, NC 27217

Generator's Site Address (if different than mailing address)

Generator's Phone: 912-652-6007

6. Transporter 1 Company Name: A&D Environmental Services, Inc. — U.S. EPA ID Number: NCD986232221

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Reidsville, LLC
208 Watlington Industrial Drive
Reidsville, NC 27320

U.S. EPA ID Number: NCD000648451

Facility's Phone: 336-361-6106

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	NA3082, Hazardous Waste Liquid, n.o.s. (Tetrachloroethylene), 9, PGIII, ERG # 171, W301	003	TP	4200	P	D040
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
9a.1) CH392220 (Solids) 3 x 275gal 2)
A&D Job#: 2405-0117 PO# 1004051

Emergency Response Number
800-255-3924
Contract Number MI50007951

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Payton Benner — Signature: ppenner — Month 05 Day 21 Year 24

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matt Wray — Signature — Month 05 Day 21 Year 24

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION FORM LDR-1

MANIFEST NO 017110066 RE

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 .7 (a)(2), AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.

1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.

2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.

3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.

4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(2) : the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Section III and IV of the CHI Form LDR-1 Addendum and attach completed Addendum to this form. These constituents are being treated to comply with 40 CFR 268.45.

5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012- 17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.

6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** **NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.**

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	[ ] D001 Ignitables, except High TOC subcategory	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D001 High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[ ] Non-WW only	1A 3 6
_____	[ ] D002 Corrosives	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D003		
	[ ] Reactive Sulfide, per 261.23 (a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Reactive Cyanide, per 261.23(a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Explosive, per 261.23(a)(6), (7) & (8)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Water Reactive, per 261.23(a)(2), (3) & (4)	[ ] Non-WW only	1 2 3 4 6
	[ ] Other Reactive, per 261.23(a)(1)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Unexploded Ordnance, Emergency Response	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D004 Arsenic	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D005 Barium	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D006		
	[ ] Cadmium	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Cadmium Containing Batteries	[ ] Non-WW only	2 3 6
_____	[ ] D007 Chromium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D008		
	[ ] Lead	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Lead Acid Batteries	[ ] Non-WW only	2 3 6

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION FORM LDR-1

MANIFEST NO 017110066 FLE

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[ ] D009		
	[ ] Low Mercury, less than 260 mg/kg Mercury	[ ] WW [ ] Non-WW	1 2 3 4
	[ ] High Mercury Organic Subcategory	[ ] Non-WW only	2 3 4
	[ ] High Mercury Inorganic Subcategory	[ ] Non-WW only	2 3 4
	[ ] D010 Selenium	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D011 Silver	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D012 Endrin	[ ] WW [ ] Non-WW	2 3 4 5 6
	[ ] D013 Lindane	[ ] WW [ ] Non-WW	2 3 4 5 6
	[ ] D014 Methoxychlor	[ ] WW [ ] Non-WW	2 3 4 5 6
	[ ] D015 Toxaphene	[ ] WW [ ] Non-WW	2 3 4 5 6
	[ ] D016 2,4-D	[ ] WW [ ] Non-WW	2 3 4 5 6
	[ ] D017 2,4,5-TP (Silvex)	[ ] WW [ ] Non-WW	2 3 4 5 6
	[ ] D018 Benzene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D019 Carbon tetrachloride	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D020 Chlordane	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D021 Chlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D022 Chloroform	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D023 o-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D024 m-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D025 p-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D026 Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D027 1,4-Dichlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D028 1,2-Dichloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D029 1,1-Dichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D030 2,4-Dinitrotoluene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D031 Heptachlor (and its epoxide)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D032 Hexachlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D033 Hexachlorobutadiene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D034 Hexachloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D035 Methyl ethyl ketone	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D036 Nitrobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D037 Pentachlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D038 Pyridine	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D039 Tetrachloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
1	[X] D040 Trichloroethylene	[ ] WW [X] Non-WW	1 (2) 3 4 6
	[ ] D041 2,4,5-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D042 2,4,6-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] D043 Vinyl Chloride	[ ] WW [ ] Non-WW	1 2 3 4 6

SECTION II. SPENT SOLVENT WASTES F001 THROUGH F005

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[ ] F001 [ ] F002 [ ] F003 [ ] F004 [ ] F005	[ ] WW [ ] Non-WW	3 4 5 6

	[ ] 1. ALL F001-F005		[ ] 12. Cyclohexanone		[ ] 25. Pyridine
	[ ] 2. Acetone		[ ] 13. o-Dichlorobenzene		[ ] 26. Tetrachloroethylene
	[ ] 3. Benzene		[ ] 14. 2-Ethoxyethanol (F005 only)		[ ] 27. Toluene
	[ ] 4. n-Butyl alcohol		[ ] 15. Ethyl acetate		[ ] 28. 1,1,1-Trichloroethane
	[ ] 5. Carbon disulfide		[ ] 16. Ethyl benzene		[ ] 29. 1,1,2-Trichloroethane
	[ ] 6. Carbon tetrachloride		[ ] 17. Ethyl ether		[ ] 30. Trichloroethylene
	[ ] 7. Chlorobenzene		[ ] 18. Isobutyl alcohol		[ ] 31. 1,1,2-Trichloro-1,2,2-trifluoroethane
	[ ] 8. o-Cresol		[ ] 19. Methanol		[ ] 32. Trichloromonofluoromethane
	[ ] 9. m-Cresol (difficult to distinguish from p-cresol)		[ ] 20. Methylene chloride		[ ] 33. Xylene - mixed isomers (sum of o-, m-, and p-xylene)
	[ ] 10. p-Cresol (difficult to distinguish from m-cresol)		[ ] 21. Methyl ethyl ketone		
	[ ] 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)		[ ] 22. Methyl isobutyl ketone		
			[ ] 23. Nitrobenzene		
			[ ] 24. 2-Nitropropane (F005 only)		

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION FORM LDR-1

MANIFEST NO 017100666 FLE

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	Hazardous waste containing one or more of the following California List constituents:	[ ] WW [ ] Non-WW	1 2 3 4 6

[ ] ALL CALIFORNIA LIST CONSTITUENTS
[ ] Liquids with nickel greater than or equal to 134 mg/l
[ ] Liquids with thallium greater than or equal to 130 mg/l
[ ] Liquids with PCB's > or = 50 ppm
[ ] Waste containing HOC's > or = 1,000 mg/kg

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6

[ ] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: payton Benner Date: 05/21/2024

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Appendix G
Data Validation Narratives

Tarheel Army Missile Plant
Water Data Validation Summary

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (QAPP) REV 1.0 (January 2024), guidance from DoD Data Validation Guidelines, method requirements and using the laboratory acceptance limits as the laboratory analyzed the samples following the requested methods instead of the DoD QSM. However, this deviation is not considered to impact the quality of the data and the results are considered usable as qualified. This section presents the overall assessment of the data with respect to the PARCC parameters (precision, accuracy, representativeness, completeness, comparability) and sensitivity. The individual review narratives are attached.

TABLE 1: SUMMARY OF SAMPLES

Data Package	Sample ID	Laboratory ID	QC Designation	Analyses
680-246854-1	SW-01A	680-246854-1		VOCs
	SW-01B	680-246854-2		
	SW-01	680-246854-3		
	SW-02	680-246854-4		
	SW-02A	680-246854-5		
	SW-03	680-246854-6		
	DUP-SW-02152024	680-246854-7	Field Duplicate to SW-02A	
	TB-02152024	680-246854-8	Trip Blank	
	LD-Sewer	680-246854-9		
	EB-02152024	680-246854-10	Equipment Blank	
	FB-02152024	680-246854-11	Field Blank	
680-246855-1	MW-102	680-246855-1		VOCs
	MW-104	680-246855-2	MS/MSD - VOCs	
	MW-121	680-246855-3		
	MW-110	680-246855-4		
	PZ-01	680-246855-5		
	MW-112	680-246855-6		
	MW-132	680-246855-7		
	DUP-GW-02152023	680-246855-8	Field Duplicate to MW-110	
680-246860-1	MW-102	680-246860-1		TOC, RSK-175
	MW-104	680-246860-2	MS/MSD – TOC, RSK-175	
	MW-121	680-246860-3		
	MW-110	680-246860-4		
	PZ-01	680-246860-5		
	MW-112	680-246860-6		
	MW-132	680-246860-7		
	DUP-GW-02152023	680-246860-8	Field Duplicate to MW-110	

ID – Identification QC – Quality Control VOCs – Volatile Organic Compounds
MS/MSD – Matrix Spike/Matrix Spike Duplicate

1.1 PRECISION

Precision is a measure of agreement among replicate (or between duplicate) or co-located sample measurements of the same analyte. The closer the numerical values of the measurements are to each other, the more precise the measurement. Precision for a single analyte was expressed as a relative percent difference (RPD) or absolute difference between matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory duplicate samples, and field duplicate results.

MS/MSDs were performed on site-specific samples for this sampling event as presented in Table 1. The following field duplicate samples were collected in association with this event.

Data Package	Parent Identification	Analyses	Field Duplicate Identification
680-246854-1	SW-02A	VOCs	DUP-SW-02152024
680-246855-1	MW-110	VOCs	DUP-GW-02152023
680-246860-1	MW-110	TOC, RSK-175	DUP-GW-02152023

Results for organics were not qualified based on MS/MSD results alone. The outliers could be a result of the heterogeneity of the sample matrix or extraction efficiencies. The comparison between results of the field duplicate pairs met the applicable evaluation criteria.

No results were rejected based on the precision between the field duplicate or the MS/MSDs results indicating acceptable precision was demonstrated. No results qualified as estimated based on field duplicate and MS/MSD results.

1.2 ACCURACY

Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recoveries of surrogate recoveries and recoveries of target analytes in the laboratory control samples (LCS) and site-specific MS/MSD samples. MS/MSD were performed on site-specific samples for this sampling event as listed in Table 1.

All of the surrogate recoveries reported and 99% of the LCS recoveries were within the acceptance limits. Several MS/MSD recoveries were outside the acceptance limits for VOCs. However, results for organics were not qualified based on MS/MSD results alone. The outliers could be a result of the heterogeneity of the sample matrix or extraction efficiencies.

No results were qualified as unusable based on accuracy. Result qualified as estimated based on the LCS recoveries are considered usable as qualified; indicating acceptable accuracy was demonstrated with respect to the analytical method and matrix.

1.3 REPRESENTATIVENESS

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The design of, and rationale for, the sampling program (in terms of the purpose for sampling, selecting the sampling locations, the number of samples to be collected, the ambient conditions for sample collection, the frequencies and timing for sampling, and the sampling techniques) assures that the environmental condition has been sufficiently represented. Representativeness was maintained during the sampling effort by completing the sampling using similar sampling procedures and in accordance with the approved QAPP and work plan.

The agreement between the field duplicate results was also used to assess representativeness. The close agreement between the duplicate results is considered to indicate that the samples collected are adequately representative of the medium sampled.

1.4 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. For this project, comparability was achieved by collecting samples following the approved QAPP; analyzing the samples using standard analytical methodologies with reporting limits that met screening level criteria to the extent attainable, using common traceable calibration and reference materials; and reporting the analytical results in appropriate and consistent units.

1.5 COMPLETENESS

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements to planned measurements. The data are considered usable as qualified. The completeness for this sampling event was 100% satisfying the QAPP requirement of 90%.

1.6 SENSITIVITY

The laboratory reported detectable results between the method detection limit (MDL) and the reporting limit (RL). To reflect the higher degree of uncertainty associated with values reported between the MDL and RL, these results were qualified as (“J”). Several samples were analyzed at dilutions due to target analyte concentrations or matrix interferences. The RLs have been elevated to reflect the dilution; therefore, results reported as nondetect at elevated RLs will need to be evaluated with respect to project objectives.

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-246854-1
Sampling Event Dates: February 15, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses
				VOCs
SW-01A	SA	680-246854-1	Water	X
SW-01B	SA	680-246854-2	Water	X
SW-01	SA	680-246854-3	Water	X
SW-02	SA	680-246854-5	Water	X
SW-02A	SA	680-246854-4	Water	X
SW-03	SA	680-246854-6	Water	X
DUP-SW-02152024	FD	680-246854-7	Water	X
TB-02152024	TB	680-246854-11	Water	X
LD-Sewer	SA	680-246854-8	Water	X
EB-02152024	EB	680-246854-9	Water	X
FB-02152024	FB	680-246854-10	Water	X

Sample Type: FD- Field Duplicate SA – Sample TB – Trip Blank
FB – Field Blank EB – Equipment Blank
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	NA	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates – Volatile Organic Compounds (VOCs)	Yes	The surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank TB-02152024 • Field Duplicate DUP-SW-02152024 (SW-02A) • Equipment Blank EB-02152024 • Field Blank FB-02152024	No	**Trip Blank (VOCs Only)** Target analytes were not detected in the trip blank sample. **Field Duplicate** The comparison between results of the field duplicate pairs met the applicable evaluation criteria listed below: • If the parent sample and duplicate values are >5x reporting limit (RL), then <30% RPD for water and vapor samples (<50% soil). • If the parent sample or duplicate sample value is <5xRL, then absolute difference is <2xRLfor water (<3.5xRL for soil and soil vapor). **Equipment Blank** With the exception listed in Table 2, no target analytes were detected in the equipment blank sample. **Field Blank (VOCs Only)** With the exception listed in Table 2, no target analytes were detected in the equipment blank sample.
RLs met?	Yes	No results were reported as non-detect at elevated RLs
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 3, the LCS recoveries were within the acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent

CCV – Continuing Calibration Verification
COC – Chain of Custody
ICV – Initial Calibration Verification
J+ - Estimated with a potential high bias
LCS – Laboratory Control Sample
MDL – Method Detection Limit
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
µg/L – microgram per liters
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
MB 680-823688 All Samples	Tetrachloroethene	0.4087 µg/L	Associated results within 5 times were qualified as estimated (J+) to reflect the potential high bias suggested by the blank contamination.
	N-Propylbenzene	0.4469 µg/L	None. The associated results were non-detect.
MB 680-823911 TB-02152024 EB-02152024 FB-02152024	Tetrachloroethene	0.4928 µg/L	The analytes for the associated samples were not reported based on the method blank.
	N-Propylbenzene	0.4091 µg/L	

µg/L – Micrograms per Liter
J+ - Estimated potential high bias

Table 2: Blank Detections Resultant Data Qualification

Associated Samples	Analyte	Concentration µg/l	Data Qualification
EB-02152024	Chloroform	0.802	Per the guidance validation, the associated results reported at concentrations <5x the blank contamination (<10x common laboratory contaminate) after accounting for the preparation value could potentially be biased high and the site sample results have been qualified as estimated (J+).
FB-02152024	Chloroform	0.832	

< - less than
J+ - Estimated potential high bias

Table 3: Laboratory Control Sample Recoveries and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-823688 All Samples	Chloromethane	**138/138**	59-127	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.
	Dichlorodifluoromethane	**145/158**	70-130	
	Trichlorofluoromethane	**205/200**	63-142	
LCS 680-823911 TB-02152024 EB-02152024 FB-02152024	Dichlorodifluoromethane	**143/137**	70-130	None. The associated results were not selected for reporting from the reanalysis.
	Trichlorofluoromethane	**234/219**	63-142	

LCS – Laboratory Control Sample %R – Percent Recovery
VOCs – Volatile Organic Compounds

Tarheel Army Missile Plant
Soil Data Validation Summary

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (QAPP) REV 1.0 (January 2024), guidance from DoD Data Validation Guidelines, method requirements and using the laboratory acceptance limits as the laboratory analyzed the samples following the requested methods instead of the DoD QSM. However, this deviation is not considered to impact the quality of the data and the results are considered usable as qualified. This section presents the overall assessment of the data with respect to the PARCC parameters (precision, accuracy, representativeness, completeness, comparability) and sensitivity. The individual review narratives are attached.

TABLE 1: SUMMARY OF SAMPLES

Data Package	Sample ID	Laboratory ID	QC Designation	Analyses
680-247829-1	WAP-Sump1-6ft	680-246956-1		VOCs
	WAP-Sump1-8ft	680-246956-2		
	WAP-Sump2-6ft	680-246956-3		
	WAP-Sump2-8ft	680-246956-4		
	WAP-Sump3-6ft	680-246956-5		
	WAP-Sump3-8ft	680-246956-6		

ID – Identification QC – Quality Control VOCs – Volatile Organic Compounds

1.1 PRECISION

Precision is a measure of agreement among replicate (or between duplicate) or co-located sample measurements of the same analyte. The closer the numerical values of the measurements are to each other, the more precise the measurement. Precision for a single analyte was expressed as a relative percent difference (RPD) or absolute difference between matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory duplicate samples, and field duplicate results.

MS/MSDs were not performed on site-specific samples for this sampling event. No field duplicate samples were collected in association with this event. Therefore, there is no measure of precision with respect to the site specific sample matrix.

1.2 ACCURACY

Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recoveries of surrogate recoveries and recoveries of target analytes in the laboratory control samples (LCS) and site-specific MS/MSD samples. MS/MSD were not performed on site-specific samples for this sampling event.

Approximately 93% of the surrogate recoveries reported and 99% of the LCS recoveries were within the acceptance limits.

No results were qualified as unusable based on accuracy. Result qualified as estimated based on the LCS and surrogate recoveries are considered usable as qualified; indicating acceptable accuracy was demonstrated with respect to the analytical method and matrix.

1.3 REPRESENTATIVENESS

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The design of, and rationale for, the sampling program (in terms of the purpose for sampling, selecting the sampling locations, the number of samples to be collected, the ambient conditions for sample collection, the frequencies and timing for sampling, and the sampling techniques) assures that the environmental condition has been sufficiently represented. Representativeness was maintained during the sampling effort by completing the sampling using similar sampling procedures and in accordance with the approved QAPP and work plan.

The agreement between the field duplicate results was also used to assess representativeness. The close agreement between the duplicate results is considered to indicate that the samples collected are adequately representative of the medium sampled.

1.4 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. For this project, comparability was achieved by collecting samples following the approved QAPP; analyzing the samples using standard analytical methodologies with reporting limits that met screening level criteria to the extent attainable, using common traceable calibration and reference materials; and reporting the analytical results in appropriate and consistent units.

1.5 COMPLETENESS

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements to planned measurements. The data are considered usable as qualified. The completeness for this sampling event was 100% satisfying the QAPP requirement of 90%.

1.6 SENSITIVITY

The laboratory reported detectable results between the method detection limit (MDL) and the reporting limit (RL). To reflect the higher degree of uncertainty associated with values reported between the MDL and RL, these results were qualified as (“J”). Several samples were analyzed at dilutions due to target analyte concentrations or matrix interferences. The RLs have been elevated to reflect the dilution; therefore, results reported as nondetect at elevated RLs will need to be evaluated with respect to project objectives.

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-246956-1
Sampling Event Dates: February 20, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses
				VOCs
WAP-Sump1-6ft	SA	680-246956-1	Soil	X
WAP-Sump1-8ft	SA	680-246956-2	Soil	X
WAP-Sump2-6ft	SA	680-246956-3	Soil	X
WAP-Sump2-8ft	SA	680-246956-4	Soil	X
WAP-Sump3-6ft	SA	680-246956-5	Soil	X
WAP-Sump3-8ft	SA	680-246956-6	Soil	X

Sample Type: SA – Sample
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.

Review Parameter	Criteria Met?	Comment
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	N/A	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	No	With the exceptions in Table 2, the surrogate recoveries were within the laboratory acceptance limits
Field Quality Control • Trip Blank None in this data package • Field Duplicate None in this data package • Equipment Blank None in this data package • Field Blank None reported in this data package	No	**Trip Blank (VOCs Only)** A trip blank was not reported in this data package. Therefore, contamination introduced during shipment could not be evaluated. **Field Duplicate** A field duplicate sample was not reported in this data package. **Equipment Blank** An equipment blank was not reported is this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	Yes	No results were reported as non-detect at reporting limits
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 3, the LCS recoveries were within laboratory acceptance limits
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
J+ - Estimated with a potential higs bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
MB 680-824233 WAP-Sump2-6ft WAP-Sump2-8ft	Naphthalene	4.034 µg/L	None. The analytes for the associated samples were not reported based on the method blank.
	1,2,3-trichlorobenzene	2.244 µg/L	

µg/L – Micrograms per Liter VOCs – Volatile Organic Compounds

Table 2: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Surrogate	%R	%R (Limits)	Data Qualification
VOCs				
WAP-Sump 2-8ft (40x)	Toluene-d8	**136**	65-130	The associated detected results were qualified as estimated (J+) to reflect the potential high bias.
	Dibromofluoromethane	**139**	65-130	

%R – Percent Recovery VOCs – Volatile Organic Compounds
J+ - Estimated with a potential high bias

Table 3: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-823950 WAP-Sump1-6ft WAP-Sump1-8ft WAP-Sump2-6ft WAP-Sump2-8ft WAP-Sump3-6ft WAP-Sump3-8ft	Bromomethane	**131**/101	70-130	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.

LCS – Laboratory Control Sample %R – Percent Recovery
VOCs – Volatile Organic Compounds

Tarheel Army Missile Plant
Soil Data Validation Summary

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (QAPP) REV 1.0 (January 2024), guidance from DoD Data Validation Guidelines, method requirements and using the laboratory acceptance limits as the laboratory analyzed the samples following the requested methods instead of the DoD QSM. However, this deviation is not considered to impact the quality of the data and the results are considered usable as qualified. This section presents the overall assessment of the data with respect to the PARCC parameters (precision, accuracy, representativeness, completeness, comparability) and sensitivity. The individual review narratives are attached.

TABLE 1: SUMMARY OF SAMPLES

Data Package	Sample ID	Laboratory ID	QC Designation	Analyses
680-247306	WOTA-SS-01 (4)	680-247306-1		VOCs, SVOCs
	WOTA-SS-01 (8)	680-247306-2		
	WOTA-SS-02 (4)	680-247306-3		
	WOTA-SS-02 (8)	680-247306-4		
	WOTA-SS-03 (4)	680-247306-5		
	WOTA-SS-03 (8)	680-247306-6		
	DUP-WOTA	680-247306-10	Field Duplicate to WOTA-SS-02	
	TB-01_20240228	680-247306-11	Trip Blank	VOCs
680-247307	WOTA-BS-01	680-247307-1	Matrix Spike/Matrix Spike Duplicate	VOCs, SVOCs
	WOTA-BS-02	680-247307-2		
	WOTA-BS-03	680-247307-3		
680-247309-1	WOTA-SS-09a (4)	680-247309-7	Matrix Spike/Matrix Spike Duplicate	
	WOTA-SS-09b (4)	680-247309-8		
	WOTA-SS-09 (8)	680-247309-9		
	FB-20240228	680-247309-10	Field Blak	
	EB-20240228	680-247309-11	Equipment Blank	
	TB-02-20240228	680-247309-12	Trip Blank	VOCs
680-247618-1	WOTA-SS-04 (8)	680-247618-1		VOCs, SVOCs
	WOTA-SS-05 (8)	680-247618-2		
	WOTA-SS-06 (8)	680-247618-3	Matrix Spike/Matrix Spike Duplicate	
	WOTA-SS-07 (8)	680-247618-4		
	WOTA-SS-08 (8)	680-247618-5		
	WOTA-SS-04 (4)	680-247618-6		
	WOTA-SS-05 (4)	680-247618-7		
	WOTA-SS-06 (4)	680-247618-8		
	WOTA-SS-07 (4)	680-247618-9		
	WOTA-SS-08 (4)	680-247618-10		
	Trip Blank	680-247618-11	Trip Blank	VOCs

Data Package	Sample ID	Laboratory ID	QC Designation	Analyses
680-247630-1	WOTA-BS-04	680-247630-1		VOCs, SVOCs
	WOTA-BS-05	680-247630-2		
	WOTA-BS-06	680-247630-3		
	NH-14a	680-247630-4		TCLP VOCs
	NH-14b	680-247630-5		TCLP VOCs
	NH-14	680-247630-6	Matrix Spike/Matrix Spike Duplicate – TCLP - SVOCs	TCLP SVOCs, SVOCs
	Field Blank - 20240305	680-247630-7	Field Blank	VOCs, SVOCs
	Equipment Blank - 20240305	680-247630-8	Equipment Blank	
	Trip Blank	680-247630-9	Trip Blank	VOCs

ID – Identification QC – Quality Control VOCs – Volatile Organic Compounds
SVOCs – Semi-volatile Organic Compounds TCLP – Toxicity Characteristic Leaching Procedure

1.1 PRECISION

Precision is a measure of agreement among replicate (or between duplicate) or co-located sample measurements of the same analyte. The closer the numerical values of the measurements are to each other, the more precise the measurement. Precision for a single analyte was expressed as a relative percent difference (RPD) or absolute difference between matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory duplicate samples, and field duplicate results.

MS/MSDs were performed on site-specific samples for this sampling event as presented in Table 1. The following field duplicate samples were collected in association with this event.

Data Package	Parent Identification	Analyses	Field Duplicate Identification
680-247306-1	WOTA-SS-02(4)	VOCs, SVOCs	DUP-WOTA

Results for organics were not qualified based on MS/MSD results alone. The outliers could be a result of the heterogeneity of the sample matrix or extraction efficiencies. The comparison between results of the field duplicate pairs met the applicable evaluation criteria.

No results were rejected based on the precision between the field duplicate or the MS/MSDs results indicating acceptable precision was demonstrated. No results qualified as estimated based on field duplicate and MS/MSD results.

1.2 ACCURACY

Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recoveries of surrogate recoveries and recoveries of target analytes in the laboratory control samples (LCS) and site-specific MS/MSD samples. MS/MSD were not performed on site-specific samples for this sampling event.

Approximately 96% of the surrogate recoveries reported and approximately 97% of the LCS recoveries were within the acceptance limits. Several MS/MSD recoveries were outside the acceptance limits for VOCs and SVOCs. However, results for organics were not qualified based on MS/MSD results alone. The outliers could be a result of the heterogeneity of the sample matrix or extraction efficiencies.

No results were qualified as unusable based on accuracy. Result qualified as estimated based on the LCS and surrogate recoveries are considered usable as qualified; indicating acceptable accuracy was demonstrated with respect to the analytical method and matrix.

1.3 REPRESENTATIVENESS

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The design of, and rationale for, the sampling program (in terms of the purpose for sampling, selecting the sampling locations, the number of samples to be collected, the ambient conditions for sample collection, the frequencies and timing for sampling, and the sampling techniques) assures that the environmental condition has been sufficiently represented. Representativeness was maintained during the sampling effort by completing the sampling using similar sampling procedures and in accordance with the approved QAPP and work plan.

The agreement between the field duplicate results was also used to assess representativeness. The close agreement between the duplicate results is considered to indicate that the samples collected are adequately representative of the medium sampled.

1.4 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. For this project, comparability was achieved by collecting samples following the approved QAPP; analyzing the samples using standard analytical methodologies with reporting limits that met screening level criteria to the extent attainable, using common traceable calibration and reference materials; and reporting the analytical results in appropriate and consistent units.

1.5 COMPLETENESS

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements to planned measurements. The data are considered usable as qualified. The completeness for this sampling event was 100% satisfying the QAPP requirement of 90%.

1.6 SENSITIVITY

The laboratory reported detectable results between the method detection limit (MDL) and the reporting limit (RL). To reflect the higher degree of uncertainty associated with values reported between the MDL and RL, these results were qualified as (“J”). Several samples were analyzed at dilutions due to target analyte concentrations or matrix interferences. The RLs have been

elevated to reflect the dilution; therefore, results reported as nondetect at elevated RLs will need to be evaluated with respect to project objectives.

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247306-1
Sampling Event Dates: February 28, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses	
				VOCs	SVOCs
WOTA-SS-01 (4)	SA	680-247306-1	Soil	X	X
WOTA-SS-01 (8)	SA	680-247306-2	Soil	X	X
WOTA-SS-02 (4)	SA	680-247306-3	Soil	X	X
WOTA-SS-02 (8)	SA	680-247306-4	Soil	X	X
WOTA-SS-03 (4)	SA	680-247306-5	Soil	X	X
WOTA-SS-03 (8)	SA	680-247306-6	Soil	X	X
DUP-WOTA	FD	680-247306-10	Soil	X	X
TB-01_20240228	TB	680-247306-11	Water	X	--

Sample Type: FD- Field Duplicate SA – Sample TB – Trip Blank
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semi-volatile Organic Compounds

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion. The client requested the analyses for the following samples canceled: WOTA-SS-04a (4), WOTA-SS-04b (4), and WOTA-SS-04 (8).
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	N/A	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs)	No	With the exceptions in Table 2, the surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank TB-01_20240228 • Field Duplicate DUP-WOTA (WOTA-SS-02 (4)) • Equipment Blank None in this data package • Field Blank None reported in this data package	Yes	**Trip Blank (VOCs Only)** No target analytes were detected in the trip blank sample. **Field Duplicate** The comparison between results of the field duplicate pairs met the applicable evaluation criteria listed below: • If the parent sample and duplicate values are >5x reporting limit (RL), then <30% RPD for water and vapor samples (<50% soil). • If the parent sample or duplicate sample value is <5xRL, then absolute difference is <2xRLfor water (<3.5xRL for soil and soil vapor). **Equipment Blank** An equipment blank was not reported in this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	No	With the following exceptions, no results were reported as non-detect at elevated reporting limits (RLs). For VOCs the following samples were reported with non-detect results at elevated RLs and will need to be evaluated with respect to project objectives: WOTA-SS-02 (4) (100x) and DUP-WOTA (100x).

Review Parameter	Criteria Met?	Comment
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 3, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
MB 680-826213 WOTA-SS-01 (8) WOTA-SS-02 (4) WOTA-SS-02 (8) WOTA-SS-03 (8) DUP-WOTA	Acetone	0.01795 µg/L	None. The associated analytes for these samples were not reported from this analytical batch.
	Naphthalene	0.003843 µg/L	

µg/L – Micrograms per Liter
VOCs – Volatile Organic Compounds

Table 2: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
WOTA-SS-03 (8)	1,2-Dichlorothane-d4	**133**	65-130	The associated detected result was qualified as estimated (J+) to reflect the potential high bias.
	Dibromofluoromethane	**139**	65-130	

%R – Percent Recovery
VOCs – Volatile Organic Compounds
J+ - Estimated with potential high bias

Table 3: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-825632 TB-01_20240228	Chloromethane	**133/132**	59-127	None. The potential bias was considered to be high, and the associated sample results were reported as non-detect.
	Vinyl Chloride	**149/149**	66-129	
	Dichlorodifluoromethane	**183/144**	70-130	
	Trichlorofluoromethane	**181/177**	63-142	
	1,2-Dibromo-3-Chloropropane	**63/67**	70-130	The associated results were qualified as estimated (J-) to reflect the potential low bias.

LCS – Laboratory Control Sample
VOCs – Volatile Organic Compounds
%R – Percent Recovery
J- - Estimated with potential low bias

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247307-1
Sampling Event Dates: February 27, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses	
				VOCs	SVOCs
WOTA-BS-01	SA	680-247307-1	Soil	X	X
WOTA-BS-02	SA	680-247307-2	Soil	X	X
WOTA-BS-03	SA	680-247307-3	Soil	X	X

Sample Type: SA – Sample
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semi-volatile Organic Compounds

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature range.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.

Review Parameter	Criteria Met?	Comment
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) WOTA-BS-01 • Laboratory Duplicate None in this data package	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) were within the laboratory acceptance limits. Results in the native sample greater than four times the concentration of the spike added during digestions/extractions are not considered to be a representative measure of accuracy. Further action with respect to spike recovery evaluation or qualification of data was not considered necessary. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	No	With the exceptions in Table 2, the surrogate recoveries were within laboratory acceptance limits.
Field Quality Control • Trip Blank None in this data package • Field Duplicate None in this data package • Equipment Blank None in this data package • Field Blank None reported in this data package	No	**Trip Blank (VOCs Only)** A trip blank was not reported in this data package. Therefore, contamination introduced during shipment could not be assessed. **Field Duplicate** A field duplicate was not reported in this data package. **Equipment Blank** An equipment blank was not reported in this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	No	With the following exceptions, no results were reported as non-detect at elevated reporting limits (RLs). For VOCs the following samples were reported with non-detect results at elevated RLs and will need to be evaluated with respect to project objectives: WOTA-BS-01 (40x) and WOTA-BS-02 (40x).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 3, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
MB 680-826213 WOTA-BS-01 WOTA-BS-02	Acetone	0.01795 µg/L	None. The potential bias was considered to be high, and the associated sample results were reported 10X the concentration in the method blank.

µg/L – Micrograms per Liter VOCs – Volatile Organic Compounds

Table 2: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
WOTA-BS-01	Toluene-d8	**135**	65-130	The associated detected result was qualified as estimated (J+) to reflect the potential high bias.
	Dibromofluoromethane	**131**	65-130	
WOTA-BS-02	Toluene-d8	**131**	65-130	
	1,2-Dichloroethane-d4	**133**	65-130	
	Dibromofluoromethane	**135**	65-130	

%R – Percent Recovery VOCs – Volatile Organic Compounds
J+ - Estimated with potential high bias

Table 3: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-826213 WOTA-BS-01 WOTA-BS-02	Bromomethane	**154/180**	70-130	None. The potential bias was considered to be high, and the associated sample results were reported as non-detect.
	Chloroethane	117/**148**	70-130	
	Dichlorodifluoromethane	123/**141**	43-131	
LCS 680-826220 WOTA-BS-03	Vinyl acetate	124/**167**	53-150	None. The potential bias was considered to be high, and the associated sample result was reported as non-detect.

LCS – Laboratory Control Sample %R – Percent Recovery
VOCs – Volatile Organic Compounds

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247309-1
Sampling Event Dates: February 28, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses	
				VOCs	SVOCs
WOTA-SS-09a (4)	SA	680-247309-7	Soil	X	X
WOTA-SS-09b (4)	SA	680-247309-8	Soil	X	X
WOTA-SS-09 (8)	SA	680-247309-9	Soil	X	X
FB-20240228	FB	680-247309-10	Water	X	X
EB-20240228	EB	680-247309-11	Water	X	X
TB-02-20240228	TB	680-247309-12	Water	X	--

Sample Type: FD- Field Duplicate SA – Sample TB – Trip Blank
EB- Equipment Blank
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semi-volatile Organic Compounds

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC).

Review Parameter	Criteria Met?	Comment
		The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion. The client requested the analyses for the following samples canceled: WOTA-SS-05 (4), WOTA-SS-05 (8), WOTA-SS-06 (4), WOTA-SS-06 (8), WOTA-SS-07 (4), and WOTA-SS-07 (8). Per client request, the laboratory logged the samples with the following sample identifications to reflect the correct nomenclature: WOTA-SS-08a (4) to WOTA-SS-09a (4), WOTA-SS-08b (4) to WOTA-SS-09b (4), and WOTA-SS-08 (8) to WOTA-SS-09 (8).
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) WOTA-SS-09a • Laboratory Duplicate None in this data package	No	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** With the exceptions listed in Table 2, the MS/MSD recoveries and relative percent differences (RPDs) were within the laboratory acceptance limits. Results in the native sample greater than four times the concentration of the spike added during digestions/extractions are not considered to be a representative measure of accuracy. Further action with respect to spike recovery evaluation or qualification of data was not considered necessary. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	No	With the exceptions in Table 3, the surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank TB-02-20240228 • Field Duplicate None in this data package • Equipment Blank EB-20240228 • Field Blank FB-20240228	No	**Trip Blank (VOCs Only)** Target analytes were not detected in the trip blank sample. **Field Duplicate** A field duplicate was not reported in this data package. **Equipment Blank** Target analytes were not detected in the equipment blank sample. **Field Blank** Target analytes were not detected in the field blank sample.
RLs met?	Yes	No results were reported as non-detect at elevated reporting limits (RLs).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 3, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
MB 680-825656 EB-20240228	Acetone	7.748 µg/L	None. The associated results were non-detect.
	Toluene	0.9016 µg/L	
MB 680-826213 WOTA-SS-09a (4) WOTA-SS-09 (8)	Acetone	0.01795 mg/kg	None. The associated analytes for these samples were not reported from this analytical batch.
	Naphthalene	0.003843 mg/kg	

µg/L – Micrograms per Liter
mg/Kg – Milligrams per Kilograam
VOCs – Volatile Organic Compounds

Table 2: Matrix Spike Recovery and/or RPD Outliers and Resultant Data Qualification

Associated Samples	Analyte	MS/MSD %R	%R (Limits)	RPD	RPD Limit	Data Qualification
VOCs						
MS/MSD WOTA-SS-09a	Bromomethane	**153/138**	70-130	25	50	Results for organics are not qualified based on MS/MSD results alone. The outliers could be a result of the heterogeneity of the sample matrix or extraction efficiencies. Therefore, the results could be estimated based on the accuracy and imprecision.
	Dichlorodifluoromethane	**144/141**	43-131	17	50	
	Vinyl Acetate	**166/157**	53-150	20	50	
	Vinyl Chloride	127/**131**	70-130	11	50	
	Hexachlorobutadiene	82/**61**	70-130	43	50	
	n-Heptane	82/**69**	70-130	31	50	

VOCs – Volatile Organic Compounds
MS – Matrix Spike
RPD – Relative Percent Difference
%R – Percent Recovery
MSD – Matrix Spike Duplicate

Table 3: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
WOTA-SS-09 (8) (40x)	Toluene-d8	**131**	65-130	The associated detected trichloroethene result was qualified as estimated (J+) to reflect the potential high bias.
	Dibromofluoromethane	**132**	65-130	

%R – Percent Recovery VOCs – Volatile Organic Compounds
J+ - Estimated with potential high bias

Table 3: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-825533 FB-20240228 EB-20240228 TB-02-20240228	Chloromethane	**129**/126	59-127	None. The potential bias was considered to be high, and the associated sample results were reported as non-detect.
	Dichlorodifluoromethane	**150**/114	70-130	
	Trichlorodifluoromethane	**184/181**	63-142	
	Vinyl Chloride	**145/144**	66-129	
	1,2-dibromo-3-chloropropane	**62/66**	70-130	The associated results were qualified as estimated (J-) to reflect the potential low bias.
	Vinyl Acetate	67/**65**	67-135	
LCS 680-825656 EB-20240228	Vinyl acetate	**149/145**	67-135	None. The potential bias was considered to be high, and the associated sample result was reported as non-detect.
LCS 680-826213 WOTA-SS-09a (4) WOTA-SS-09 (8)	Bromomethane	**154**	70-130	None. The potential bias was considered to be high, and the associated sample result was reported as non-detect.
SVOCs				
LCS 680-825656 EB-20240228	Caprolactam	**24**	26-130	The associated result was qualified as estimated (J-) to reflect the potential low bias.

LCS – Laboratory Control Sample %R – Percent Recovery J- - Estimated with a potential low bias
VOCs – Volatile Organic Compounds SVOCs – Semi-Volatile Organic Compounds

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247618
Sampling Event Dates: March 5, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses	
				VOCs	SVOCs
WOTA-SS-04 (8)	SA	680-247618-1	Soil	X	X
WOTA-SS-05 (8)	SA	680-247618-2	Soil	X	X
WOTA-SS-06 (8)	SA	680-247618-3	Soil	X	X
WOTA-SS-07 (8)	SA	680-247618-4	Soil	X	X
WOTA-SS-08 (8)	SA	680-247618-5	Soil	X	X
WOTA-SS-04 (4)	SA	680-247618-6	Soil	X	X
WOTA-SS-05 (4)	SA	680-247618-7	Soil	X	X
WOTA-SS-06 (4)	SA	680-247618-8	Soil	X	X
WOTA-SS-07 (4)	SA	680-247618-9	Soil	X	X
WOTA-SS-08 (4)	SA	680-247618-10	Soil	X	X
Trip Blank	TB	680-247618-11	Water	X	--

Sample Type: SA – Sample TB – Trip Blank

Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semi-volatile Organic Compounds

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) WOTA-SS-06(8) • Laboratory Duplicate None in this data package	Yes	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** The MS/MSD recoveries and relative percent differences (RPDs) were within the laboratory acceptance limits. Results in the native sample greater than four times the concentration of the spike added during digestions/extractions are not considered to be a representative measure of accuracy. Further action with respect to spike recovery evaluation or qualification of data was not considered necessary. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	No	With the exceptions in Table 2, the surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank Trip Blank • Field Duplicate None in this data package • Equipment Blank None in this data package • Field Blank None in this data package	Yes	**Trip Blank (VOCs Only)** No target analytes were reported in the trip blank sample. **Field Duplicate** A field duplicate was not reported in this data package. **Equipment Blank** An equipment blank was not reported in this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	Yes	No results were reported as non-detect at elevated reporting limits (RLs).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 3, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	No	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification

J - Estimated with an indeterminate bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
MB 680-827726 WOTA-SS-08 (4)	Acetone	0.01451 µg/L	Associated results within 10 times (common laboratory contaminant) were qualified as estimated (J+) to reflect the potential high bias suggested by the blank contamination.

µg/L – Micrograms per Liter
J+ - Estimated with a potential high bias
VOCs – Volatile Organic Compounds

Table 2: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
WOTA-SS-08 (4)	1,2-dichloroethane-d4	**132**	65-130	The associated detected result was qualified as estimated (J+) to reflect the potential high bias.

%R – Percent Recovery
J+ - Estimated with potential high bias
VOCs – Volatile Organic Compounds

Table 3: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-826226 Trip Blank	Chloromethane	**128/130**	59-127	None. The potential bias was considered to be high, and the associated sample results were reported as non-detect.
	Trichlorofluoromethane	**178/176**	63-142	
	Vinyl Chloride	116/**141**	66-129	
	1,2-dibromo-3-chloropropane	**64/44**	70-130	The associated result was qualified as estimated (J-) to reflect the potential low bias.
LCS 680-827726 WOTA-SS-08 (4)	Bromomethane	**132**/127	70-130	None. The potential bias was considered to be high, and the associated sample result was reported as non-detect.

LCS – Laboratory Control Sample
VOCs – Volatile Organic Compounds
%R – Percent Recovery
J- - Estimated with a potential low bias

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247630
Sampling Event Dates: March 5, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses			
				VOCs	TCLP VOCs	SVOCs	TCLP SVOCs
WOTA-BS-04	SA	680-247630-1	Soil	X	--	X	--
WOTA-BS-05	SA	680-247630-2	Soil	X	--	X	--
WOTA-BS-06	SA	680-247630-3	Soil	X	--	X	--
NH-14a	SA	680-247630-4	Soil	--	X	--	
NH-14b	SA	680-247630-5	Soil	--	X	--	--
NH-14	SA	680-247630-6	Soil	--	--	X	X
Field Blank - 20240305	FB	680-247630-7	Soil	X	--	X	--
Equipment Blank - 20240305	EB	680-247630-8	Soil	X	--	X	--
Trip Blank	TB	680-247630-9	Water	X	--	--	--

Sample Type: SA – Sample TB – Trip Blank
FB – Field Blank EB- Equipment Blank
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semi-volatile Organic Compounds
TCLP – Toxicity Characteristic Leaching Procedure

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion. A MS/MSD was included on the COC. However, the associated parent sample was not submitted with samples on the COC and was not included on the COC.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	Yes	With the exceptons in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) NH-14 (TCLP SVOC) • Laboratory Duplicate None in this data package	No	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** With the exceptions listed in Table 1, the MS/MSD recoveries and relative percent differences (RPDs) were within the laboratory acceptance limits. Results in the native sample greater than four times the concentration of the spike added during digestions/extractions are not considered to be a representative measure of accuracy. Further action with respect to spike recovery evaluation or qualification of data was not considered necessary. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	No	With the exceptions in Table 3, the surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank Trip Blank • Field Duplicate None in this data package • Equipment Blank Equipment Blank – 20240305 • Field Blank Field Blank - 20240305	Yes	**Trip Blank (VOCs Only)** No target analytes were reported in the trip blank sample. **Field Duplicate** A field duplicate was not reported in this data package. **Equipment Blank** No target analytes were reported in the equipment blank sample. **Field Blank** No target analytes were reported in the field blank sample.
RLs met?	No	With the following exceptions, no results were reported as non-detect at elevated reporting limits (RLs). For VOCs the following samples were reported with non-detect results at elevated RLs and will need to be evaluated with respect to project objectives: NH-14a (20x) and NH-14b (20x).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 4, the LCS recoveries were within laboratory acceptance limits.

Review Parameter	Criteria Met?	Comment
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
TCLP – Toxicity Characteristic Leaching Procedure
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
LB 680-827653/ EB-20240228	Chlorobenzene	0.005402 mg/L	None. The associated results were non-detect or reported at concentration greater than 5x the amount found in the method blank.

mg/L – milligrams per Liter
VOCs – Volatile Organic Compounds

Table 2: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
WOTA-BS-06	1,2-dichloroethane-d4	**135**	65-130	The associated detected result was qualified as estimated (J+) to reflect the potential high bias.

%R – Percent Recovery
VOCs – Volatile Organic Compounds
J+ - Estimated with potential high bias

Table 3: Matrix Spike Recovery and/or RPD Outliers and Resultant Data Qualification

Associated Samples	Analyte	MS/MSD %R	%R (Limits)	RPD	RPD Limit	Data Qualification
TCLP SVOCs						
MS/MSD NH-14	Pyridine	24/**6**	10-130	123	50	Results for organics are not qualified based on MS/MSD results alone. The outliers could be a result of the heterogeneity of the sample matrix or extraction efficiencies. Therefore, the results could be estimated based on the accuracy and imprecision.

SVOCs – Semi-Volatile Organic Compounds
MS – Matrix Spike
RPD – Relative Percent Difference
%R – Percent Recovery
Matrix Spike Duplicate – Matrix Spike Duplicate
TCLP – Toxicity Characteristic Leaching Procedure

Table 4: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-826226 Field Blank - 20240305 Equipment Blank - 20240305 Trip Blank	Chloromethane	**128/130**	59-127	None. The potential bias was considered to be high, and the associated sample results were reported as non-detect.
	Trichlorofluoromethane	**178/176**	63-142	
	Vinyl Chloride	116/**141**	66-129	
	1,2-dibromo-3-chloropropane	**64/44**	70-130	The associated results were qualified as estimated (J-) to reflect the potential low bias.
LCS 680-827735 NH-14a	Vinyl Chloride	**189/188**	66-129	None. The potential bias was considered to be high, and the associated sample result was reported as non-detect.
LCS 680-827735 WOTA-BS-04 WOTA-BS-05 WOTA-BS-06	Bromomethane	**156**/127	70-130	None. The potential bias was considered to be high, and the associated sample result was reported as non-detect.
	Chloroethane	**140**/108	70-130	
SVOCs				
LCS 680-82647 Field Blank - 20240305 Equipment Blank - 20240305	Caprolactam	**24**	26-130	The associated results were qualified as estimated (J-) to reflect the potential low bias.

LCS – Laboratory Control Sample
SVOCs – Semi-volatile Organic Compounds
%R – Percent Recovery
VOCs – Volatile Organic Compounds

Tarheel Army Missile Plant
Soil Data Validation Summary

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (QAPP) REV 1.0 (January 2024), guidance from DoD Data Validation Guidelines, method requirements and using the laboratory acceptance limits as the laboratory analyzed the samples following the requested methods instead of the DoD QSM. However, this deviation is not considered to impact the quality of the data and the results are considered usable as qualified. This section presents the overall assessment of the data with respect to the PARCC parameters (precision, accuracy, representativeness, completeness, comparability) and sensitivity. The individual review narratives are attached.

TABLE 1: SUMMARY OF SAMPLES

Data Package	Sample ID	Laboratory ID	QC Designation	Analyses
680-247829-1	WAP-SS-03 (4)	680-247829-1		VOCs, SVOCs
	WAP-SS-03 (8)	680-247829-2		
	WAP-SS-04 (4)	680-247829-3		
	WAP-SS-04 (8)	680-247829-4		
	WAP-SS-05 (4)	680-247829-5		
	WAP-SS-05 (8)	680-247829-6		
	WAP-SS-06 (4)	680-247829-7		
	WAP-SS-06 (8)	680-247829-8		
	Trip Blank-20240308b	680-247829-9	Trip Blank	
680-247827-1	WAP-SS-01 (4)	680-247827-1		VOCs, SVOCs
	WAP-SS-01 (8)	680-247827-2		
	WAP-SS-02 (4)	680-247827-3		
	WAP-SS-02 (8)	680-247827-4		
	WAP-BS-01	680-247827-5		
	WAP-BS-02	680-247827-6		
	WAP-DUP-20240308	680-247827-7	Field Duplicate to WAP-SS-01(4)	
	Trip Blank - 20240308a	680-247827-8		

ID – Identification QC – Quality Control VOCs – Volatile Organic Compounds
SVOCs (Method 8270E) – Semi-volatile Organic Compounds

1.1 PRECISION

Precision is a measure of agreement among replicate (or between duplicate) or co-located sample measurements of the same analyte. The closer the numerical values of the measurements are to each other, the more precise the measurement. Precision for a single analyte was expressed as a relative percent difference (RPD) or absolute difference between matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory duplicate samples, and field duplicate results.

MS/MSDs were not performed on site-specific samples for this sampling event. The following field duplicate samples were collected in association with this event.

Data Package	Parent Identification	Analyses	Field Duplicate Identification
680-247827-1	WAP-SS-01 (4)	VOCs, SVOCs	WAP-DUP-20240308

With three exceptions, the comparison between results of the field duplicate pairs met the applicable evaluation criteria. The cis-1,2-dichloroethene, tetrachloroethene, and 1,1,2-trichloro-1,2,2-trifluoroethane results did not meet the applicable evaluation criteria.

No results were rejected based on the precision between the field duplicate results indicating acceptable precision was demonstrated. Results qualified as estimated based on field duplicate results are considered usable for meeting project objectives as data usability was not adversely affected. Results are mostly likely outside the acceptance limits due to the heterogeneity of the sample matrix.

1.2 ACCURACY

Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recoveries of surrogate recoveries and recoveries of target analytes in the laboratory control samples (LCS) and site-specific MS/MSD samples. MS/MSD were not performed on site-specific samples for this sampling event.

Approximately 96% of the surrogate recoveries reported and 99% of the LCS recoveries were within the acceptance limits.

No results were qualified as unusable based on accuracy. Result qualified as estimated based on the LCS and surrogate recoveries are considered usable as qualified; indicating acceptable accuracy was demonstrated with respect to the analytical method and matrix.

1.3 REPRESENTATIVENESS

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The design of, and rationale for, the sampling program (in terms of the purpose for sampling, selecting the sampling locations, the number of samples to be collected, the ambient conditions for sample collection, the frequencies and timing for sampling, and the sampling techniques) assures that the environmental condition has been sufficiently represented. Representativeness was maintained during the sampling effort by completing the sampling using similar sampling procedures and in accordance with the approved QAPP and work plan.

The agreement between the field duplicate results was also used to assess representativeness. The close agreement between the duplicate results is considered to indicate that the samples collected are adequately representative of the medium sampled.

1.4 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. For this project, comparability was achieved by collecting samples following the approved QAPP; analyzing the samples using standard analytical methodologies with reporting limits that met screening level criteria to the extent attainable, using common traceable calibration and reference materials; and reporting the analytical results in appropriate and consistent units.

1.5 COMPLETENESS

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements to planned measurements. The data are considered usable as qualified. The completeness for this sampling event was 100% satisfying the QAPP requirement of 90%.

1.6 SENSITIVITY

The laboratory reported detectable results between the method detection limit (MDL) and the reporting limit (RL). To reflect the higher degree of uncertainty associated with values reported between the MDL and RL, these results were qualified as ("J"). Several samples were analyzed at dilutions due to target analyte concentrations or matrix interferences. The RLs have been elevated to reflect the dilution; therefore, results reported as nondetect at elevated RLs will need to be evaluated with respect to project objectives.

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247827-1
Sampling Event Dates: March 8, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses	
				VOCs	SVOCs
WAP-SS-01 (4)	SA	680-247827-1	Soil	X	X
WAP-SS-01 (8)	SA	680-247827-2	Soil	X	X
WAP-SS-02 (4)	SA	680-247827-3	Soil	X	X
WAP-SS-02 (8)	SA	680-247827-4	Soil	X	X
WAP-BS-01	SA	680-247827-5	Soil	X	X
WAP-BS-02	SA	680-247827-6	Soil	X	X
WAP-DUP-20240308	FD	680-247827-7	Soil	X	X
Trip Blank - 20240308a	TB	680-247827-8	Water	X	--

Sample Type: FD- Field Duplicate SA – Sample TB – Trip Blank
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semi-volatile Organic Compounds

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	Yes	No target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	N/A	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs)	No	With one exception in Table 1, the surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank Trip Blank - 20240308a • Field Duplicate WAP-DUP-20240308 (WAP-SS-01 (4)) • Equipment Blank None in this data package • Field Blank None reported in this data package	No	**Trip Blank (VOCs Only)** No target analytes were detected in the trip blank sample. **Field Duplicate** With the following exceptions below, the comparison between results of the field duplicate pairs met the applicable evaluation criteria listed below: • If the parent sample and duplicate values are >5x reporting limit (RL), then <30% RPD for water and vapor samples (<50% soil). • If the parent sample or duplicate sample value is <5xRL, then absolute difference is <2xRLfor water (<3.5xRL for soil and soil vapor). The cis-1,2-dichloroethene, tetrachloroethene, and 1,1,2-trichloro-1,2,2-trifluoroethane results did not meet the applicable evaluation criteria; therefore, the associated results were qualified as estimated (J). **Equipment Blank** An equipment blank was not reported is this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	No	With the following exceptions, no results were reported as non-detect at elevated reporting limits (RLs). For VOCs the following samples was reported with non-detect results at elevated RLs and will need to be evaluated: WAP-DUP-20240308 (100x) with respect to project objectives.

Review Parameter	Criteria Met?	Comment
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 2, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds

Table 1: Surrogate Recovery and Resultant Data Qualification

Associated Samples	Surrogate	%R	%R (Limits)	Data Qualification
VOCs				
WAP-SS-01 (4) (40x)	Dibromofluoromethane	**132**	65-130	The associated detected results were qualified as estimated (J+) to reflect the potential high bias.

%R – Percent Recovery
J+ - Estimated with a potential high bias
VOCs – Volatile Organic Compounds

Table 2: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-826833 Trip Blank - 20240308a	Chloromethane	**131/131**	59-127	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.
	Vinyl Chloride	**143/142**	66-129	
	Dichlorodifluoromethane	**146/145**	70-130	
	Trichlorofluoromethane	**176/174**	63-142	
	1,2-Dibromo-3-Chloropropane	**56/58**	70-130	The associated results were qualified as estimated (J-) to reflect the potential low bias.

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
LCS 680-827257 WAP-SS-01 (4) WAP-SS-01 (8) WAP-SS-02 (4) WAP-SS-02 (8) WAP-BS-01 WAP-BS-02 WAP-DUP-20240308	Bromomethane	128/**140**	70-130	None. The potential bias was considered to be high, and the associated sample results were reported as non-detect.
	Vinyl Acetate	**171/165**	53-150	
LCS 680-827257 WAP-SS-01 (4) WAP-SS-01 (8) WAP-DUP-20240308	Bromomethane	**159/152**	70-130	None. The associated results were not selected for reporting from the reanalysis.
	Chloroethane	**136/131**	70-130	

LCS – Laboratory Control Sample
VOCs – Volatile Organic Compounds
%R – Percent Recovery
J- - Estimated with a potential low bias

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-247929-1
Sampling Event Dates: March 8, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analyses	
				VOCs	SVOCs
WAP-SS-03 (4)	SA	680-247829-1	Soil	X	X
WAP-SS-03 (8)	SA	680-247829-2	Soil	X	X
WAP-SS-04 (4)	SA	680-247829-3	Soil	X	X
WAP-SS-04 (8)	SA	680-247829-4	Soil	X	X
WAP-SS-05 (4)	SA	680-247829-5	Soil	X	X
WAP-SS-05 (8)	SA	680-247829-6	Soil	X	X
WAP-SS-06 (4)	SA	680-247829-7	Soil	X	X
WAP-SS-06 (8)	SA	680-247829-8	Soil	X	X
Trip Blank-20240308b	TB	680-247829-9	Water	X	--

Sample Type: SA – Sample TB – Trip Blank
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed
SVOCs (Method 8270E) – Semivolatile Organic Compounds

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	No	With exception in Table 1, no target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	N/A	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs)	No	With the exceptions below, the surrogate recoveries were within the laboratory acceptance limits. For VOCs the surrogate 1,2-Dichloroethane-d4 for samples WAP-SS-03 (4), WAP-SS-03 (8), WAP-SS-04 (4), WAP-SS-05 (8), and WAP-SS-06 (8), exceeded the upper limited of the acceptance range. The detected results were qualified as estimated (J+) to reflect the potential high bias.
Field Quality Control • Trip Blank Trip Blank - 20240308b • Field Duplicate None in this data package • Equipment Blank None in this data package • Field Blank None reported in this data package	Yes	**Trip Blank (VOCs Only)** No target analytes were detected in the trip blank sample. **Field Duplicate** A field duplicate sample was not reported in this data package. **Equipment Blank** An equipment blank was not reported is this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	Yes	No results were reported as non-detect at elevated reporting limits (RLs).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 2, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent

CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated with an indeterminate bias
J+ - Estimated with a potential high bias

LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds

Table 1: Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Qualification
VOCs			
MB 680-827726 WAP-SS-03 (4) WAP-SS-03 (8) WAP-SS-04 (4) WAP-SS-04 (8) WAP-SS-05 (4) WAP-SS-05 (8) WAP-SS-06 (4) WAP-SS-06 (8)	Acetone	0.01451 µg/L	Associated results within 10 times (common laboratory contaminant) were qualified as estimated (J+) to reflect the potential high bias suggested by the blank contamination.

µg/L – Micrograms per Liter
J+ - estimated with a potential high bias
VOCs – Volatile Organic Compounds

Table 2: Laboratory Control Sample Recovery and Resultant Data Qualification

Associated Samples	Analyte	%R	%R (Limits)	Data Qualification
VOCs				
LCS 680-826833 Trip Blank - 20240308b	Chloromethane	**131/131**	59-127	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.
	Vinyl Chloride	**143/142**	66-129	
	Dichlorodifluoromethane	**146/145**	70-130	
	Trichlorofluoromethane	**176/174**	63-142	
	1,2-Dibromo-3-Chloropropane	**56/58**	70-130	The associated results were qualified as estimated (J-) to reflect the potential low bias.
LCS 680-827257 WAP-SS-03 (4) WAP-SS-03 (8) WAP-SS-04 (4) WAP-SS-04 (8) WAP-SS-05 (4) WAP-SS-05 (8) WAP-SS-06 (4) WAP-SS-06 (8)	Bromomethane	**132**/127	70-130	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.

LCS – Laboratory Control Sample
VOCs – Volatile Organic Compounds
%R – Percent Recovery
J- - Estimated with a potential low bias

Tarheel Army Missile Plant
Water Data Validation Summary

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (QAPP) REV 1.0 (January 2024), guidance from DoD Data Validation Guidelines, method requirements and Department of Defense (DoD) Quality Systems Manual (QSM) for data package 680-250515-1 and using the laboratory acceptance limits for data package 680-249346-1 as the laboratory analyzed the samples following the requested method instead of the DoD QSM. However, this deviation is not considered to impact the quality of the data and the results are considered usable as qualified. This section presents the overall assessment of the data with respect to the PARCC parameters (precision, accuracy, representativeness, completeness, comparability) and sensitivity. The individual review narratives are attached.

TABLE 1: SUMMARY OF SAMPLES

Data Package	Sample ID	Laboratory ID	QC Designation	Analyses
680-249346-1	MW-143	680-249346-1		VOCs
	MW-144	680-249346-2		
	MW-145	680-249346-3		
	MW-146	680-249346-4		
	DUP-GW-20240410	680-249346-9	Field Duplicate to MW-143	
680-250515-1	MW-148	680-250525-1		VOCs
	MW-147	680-250525-2		
	MW-142	680-250525-3		
	DUP-GW-20240508	680-250525-4	Field Duplicate to MW-148	

ID – Identification QC – Quality Control VOCs – Volatile Organic Compounds

1.1 PRECISION

Precision is a measure of agreement among replicate (or between duplicate) or co-located sample measurements of the same analyte. The closer the numerical values of the measurements are to each other, the more precise the measurement. Precision for a single analyte was expressed as a relative percent difference (RPD) or absolute difference between matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory duplicate samples, and field duplicate results.

MS/MSDs were not performed on site-specific samples for this sampling event. The following field duplicate samples were collected in association with this event.

Data Package	Parent Identification	Analyses	Field Duplicate Identification
680-249346-1	MW-143	VOCs	DUP-GW-20240410
680-250515-1	MW-148	VOCs	DUP-GW-20240508

The comparison between results of the field duplicate pairs met the applicable evaluation criteria. No results were qualified as estimated or rejected based on the precision between the field duplicate results indicating acceptable precision was demonstrated.

1.2 ACCURACY

Accuracy is a measure of bias in a measurement system. The closer the value of the measurement agrees with the true value, the more accurate the measurement. This was expressed as the percent recoveries of surrogate recoveries and recoveries of target analytes in the laboratory control samples (LCS) and site-specific MS/MSD samples. MS/MSD were not performed on site-specific samples for this sampling event.

All of the reported surrogate recoveries and approximately 97% of the LCS recoveries were within the acceptance limits. No results were qualified as unusable based on accuracy. Result qualified as estimated based on the LCS and surrogate recoveries are considered usable as qualified; indicating acceptable accuracy was demonstrated with respect to the analytical method and matrix.

1.3 REPRESENTATIVENESS

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. The design of, and rationale for, the sampling program (in terms of the purpose for sampling, selecting the sampling locations, the number of samples to be collected, the ambient conditions for sample collection, the frequencies and timing for sampling, and the sampling techniques) assures that the environmental condition has been sufficiently represented. Representativeness was maintained during the sampling effort by completing the sampling using similar sampling procedures and in accordance with the approved QAPP and work plan.

The agreement between the field duplicate results was also used to assess representativeness. The close agreement between the duplicate results is considered to indicate that the samples collected are adequately representative of the medium sampled.

1.4 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. For this project, comparability was achieved by collecting samples following the approved QAPP; analyzing the samples using standard analytical methodologies with reporting limits that met screening level criteria to the extent attainable, using common traceable calibration and reference materials; and reporting the analytical results in appropriate and consistent units.

1.5 COMPLETENESS

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or

usable measurements to planned measurements. The data are considered usable as qualified. The completeness for this sampling event was 100% satisfying the QAPP requirement of 90%.

1.6 SENSITIVITY

The laboratory reported detectable results between the method detection limit (MDL) or detection limit (DL) and the reporting limit (RL) or limit of quantitation (LOQ). To reflect the higher degree of uncertainty associated with values reported between the MDL (DL) and RL (LOQ), these results were qualified as ("J"). Several samples were analyzed at dilutions due to target analyte concentrations or matrix interferences. The RLs (LOQs) have been elevated to reflect the dilution; therefore, results reported as nondetect at elevated RLs (LOQs) will need to be evaluated with respect to project objectives.

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-249346-1
Sampling Event Dates: April 10, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analysis
				VOCs
MW-143	SA	680-249346-1	Water	X
MW-144	SA	680-249346-2	Water	X
MW-145	SA	680-249346-3	Water	X
MW-146	SA	680-249346-4	Water	X
DUP-GW-20240410	FD	680-249346-9	Water	X

Sample Type: FD- Field Duplicate SA – Sample
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024) and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	With the following exception below, the samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). • The Trip Blank sample listed on the COC was not received.

Review Parameter	Criteria Met?	Comment
		The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.
Laboratory Blanks • Method Blank	Yes	No target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	N/A	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	Yes	The surrogate recoveries were within the laboratory acceptance limits.
Field Quality Control • Trip Blank None reported in this data package • Field Duplicate DUP-GW-20240410 (MW-143) • Equipment Blank None in this data package • Field Blank None reported in this data package	No	**Trip Blank (VOCs Only)** A trip blank was not reported in this data package. Therefore, contamination introduced during shipment could not be assessed. **Field Duplicate** The comparison between results of the field duplicate pairs met the applicable evaluation criteria listed below: • If the parent sample and duplicate values are >5x reporting limit (RL), then <30% RPD for water and vapor samples (<50% soil). • If the parent sample or duplicate sample value is <5xRL, then absolute difference is <2xRLfor water (<3.5xRL for soil and soil vapor). **Equipment Blank** An equipment blank was not reported in this data package. **Field Blank** A field blank was not reported in this data package.
RLs met?	No	With the following exceptions, no results were reported as non-detect at elevated reporting limits (RLs). For VOCs the following samples were reported with non-detect results at elevated RLs and will need to be evaluated with respect to project objectives: MW-143 (10x), MW-144 (2x), MW-145 (5x), and DUP-GW-20240410 (10x).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 1, the LCS recoveries were within laboratory acceptance limits.
Other issues identified in the Case Narrative: None	NA	None

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus

°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
ICV – Initial Calibration Verification
J - Estimated
LCS – Laboratory Control Sample
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
VOCs – Volatile Organic Compounds

Table 1: Laboratory Control Sample & Laboratory Control Sample Duplicate Recovery and Resultant Data Qualification

Associated Samples	Analyte	LCS/LCSD %R	LCS & LCSD %R (Limits)	Data Qualification
VOCs				
LCS 680-832894 MW-143 MW-144 MW-145 MW-146 DUP-GW-20240410	n-Heptane	**132/129**	65-120	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.

LCS – Laboratory Control Sample
LCSD – Laboratory Control Sample Duplicate
%R – Percent Recovery
VOCs – Volatile Organic Compounds

Tarheel Army Missile Plant
Data Validation Summary

Data Package Number: 680-250515-1
Sampling Event Dates: May 8, 2024

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Laboratory Identification	Matrix	Analysis
				VOCs
MW-148	SA	680-250525-1	Water	X
MW-147	SA	680-250525-2	Water	X
MW-142	SA	680-250525-3	Water	X
DUP-GW-20240508	FD	680-250525-4	Water	X

Sample Type: FD- Field Duplicate SA – Sample
Analyses: VOCs (Method 8260D)– Volatile Organic Compounds -- not analyzed

The data review was conducted in accordance with the Tarheel Army Missile Plant Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) REV. 1.0 (January 2024), Department of Defense (DoD) Quality Systems Manual (QSM), and method requirements.

General Overall Assessment:

_____ Data are usable without qualification.
__X__ Data are usable with qualification
_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detections reported between the detection limit (DL) and the limit of quantitation (LOQ) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Savannah (Eurofins) Savannah, Georgia in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperature upon receipt was within the recommended ≤6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The analysis was conducted within the holding time requirements for the methods.

Review Parameter	Criteria Met?	Comment
Laboratory Blanks • Method Blank	Yes	No target analytes were detected within the method blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate (MS/MSD) None in this data package • Laboratory Duplicate None in this data package	N/A	**Matrix Spike/ Matrix Spike Duplicate (MS/MSD)** A MS/MSD was not reported in this data package. **Laboratory Duplicate** A laboratory duplicate was not reported in this data package.
Method Quality Control • Surrogates - Volatile Organic Compounds (VOCs)	Yes	The surrogate recoveries were within the Department of Defense (DoD) Quality Systems Manual (QSM) limits.
Field Quality Control • Trip Blank None reported in this data package • Field Duplicate DUP-GW-20240508 (MW-148) • Equipment Blank None in this data package • Field Blank None reported in this data package	No	**Trip Blank (VOCs Only)** A trip blank was not reported in this data package. Therefore, contamination introduced during shipment could not be assessed. **Field Duplicate** The comparison between results of the field duplicate pairs met the applicable evaluation criteria listed below: • If the parent sample and duplicate values are >5x reporting limit (RL), then <30% RPD for water and vapor samples (<50% soil). • If the parent sample or duplicate sample value is <5xRL, then absolute difference is <2xRLfor water (<3.5xRL for soil and soil vapor). **Equipment Blank** An equipment blank was not reported in this data package. **Field Blank** A field blank was not reported in this data package.
LOQ met?	Yes	No results were reported as non-detect at elevated limit of quantitation (LOQ).
Laboratory Control Sample (LCS)	No	With the exceptions listed in Table 1, the LCS recoveries were within the DoD QSM limits.
Other issues identified in the Case Narrative: • Initial Calibration Verification (ICV) • Continuing Calibration Verification (CCV)	No	The ICV was outside the acceptance criteria for the following batches and analytes and the associated sample results were qualified estimated (J/UJ): • Batch 680-836362: Bromoform, Carbon disulfide, Hexane and Vinyl acetate. • Batch 680-837880: Dichlorodifluoromethane and Vinyl acetate. The CCV was above the acceptance criteria for the following batches and analytes. This is not considered to impact the results as the results are reported as non-detect and potential bias is considered to be high. • Batch 680-838498: bromoform, trichlorofluoromethane, and vinyl acetate.

Review Parameter	Criteria Met?	Comment
		• Batch 680-838791: bromomethane and vinyl acetate. The CCV and/or closing CCV was below the acceptance criteria for the following batches and analytes. Associated results were qualified as estimated (J-/UJ) to reflect the potential low bias. • Batch 680-838498: bromomethane, dichlorodifluoromethane, and iodomethane.

> - Greater Than
< - Less Than
≤ - Less Than or Equal To
± - Plus or Minus
°C – Degrees Celsius
% - Percent
CCV – Continuing Calibration Verification
COC – Chain of Custody
DL – Detection Limit
DoD – Department of defense
ICV – Initial Calibration Verification
J – Estimated with an indeterminate bias
J+ - Estimated with a potential high bias
J - Estimated with a potential low bias
LCS – Laboratory Control Sample
QSM – Quality System Manual
LOQ - LOQ – Limit of Quantitation
MS/MSD – Matrix Spike/ Matrix Spike Duplicate
NA – Not Applicable
RL – Reporting Limit
RPDs – Relative Percent Differences
VOCs – Volatile Organic Compounds
UJ – Estimated Non-detect
CCV – Continuing Calibration Verification

Table 1: Laboratory Control Sample & Laboratory Control Sample Duplicate Recovery and Resultant Data Qualification

Associated Samples	Analyte	LCS/LCSD %R	LCS & LCSD %R (Limits)	Data Qualification
VOCs				
LCS 680-838498 MW-148 MW-147 MW-142 DUP-GW-20240508	Bromoform	**133/133**	66-130	None. The potential bias is considered to be high, and the associated sample results were reported as non-detect.
	Trichlorofluoromethane	**206/209**	65-141	
	Vinyl acetate	**296/285**	54-146	

LCS – Laboratory Control Sample
%R – Percent Recovery
LCSD – Laboratory Control Sample Duplicate
VOCs – Volatile Organic Compounds