The City of Canton

Invitation to Bid

City of Canton, Ohio

Purchasing Department
218 Cleveland Ave. SW, 4th floor
Canton, Ohio 44702

Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID)

Item/Project

Engineering

Responsible Department

2:00:00 PM, 3/17/2023

Bids Due

Bid Proposal Submitted By:

Company Name

Street Address

City **State** **Zip**

Contact Person **Phone No.** **Email Address**

Table of Contents and Bidder's Checklist - Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID)

Bidder's Checklist: The completed Bid Form shall be accompanied by the following completed documents:

_____ **Pre-Bid Substitution, if any proposed substitutes have been pre-approved.**
_____ **Bid Guaranty and, if applicable Contract Bond**
_____ **Contractor's Qualification Statement**
_____ **Contractor's List of Subcontracted Work Categories**
_____ **A list identifying its DBE subcontractors and participation rates as a percentage of the Contract Price, and if the DBE participation goal has not been met, certification of good faith efforts to meet the DBE participation goal.**
_____ **The Project Labor Agreement (PLA) Letter of Assent (See Appendix A).**
_____ **If this project is funded in whole or part by the Ohio Public Works Commission, then certification of agreement and compliance with certain statements and covenants regarding Bidder's subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts.**

Legal Notice

Sealed bids will be received by the City of Canton (the "City"), as provided in this notice for the Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project (the "Project"), Ordinance 117/2022. Contract documents, which include additional details of the Project, are on file and available from the City of Canton's web site (https://cantonohio.gov/448/Purchasing-Procurement).

Bids shall be enclosed in a sealed envelope addressed to the City of Canton, 218 Cleveland Ave. SW, Purchasing Dept/Fourth Floor, Canton, Ohio 44702 and plainly marked on the outside "Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) PROJECT BID." Bids will be received on or before 2:00 PM, local time, 3/17/2023 and opened shortly thereafter.

Questions regarding plans and specifications should be addressed in writing to Purchasing Department, at purchasing@cantonohio.gov.

All bids must include a Bid Guaranty, as described in the Instructions to Bidders. Prevailing wage rates apply. All bidders will be required to comply with the City Contract Compliance Program regarding equal employment opportunity. After submission and opening, no bidder may withdraw its bid within 60 days after the opening; the City reserves the right to waive irregularities, reject any or all bids, and conduct necessary investigations to determine bidder responsibility.

Published in The Repository on March 2 and March 9, 2023

INSTRUCTIONS TO BIDDERS

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A. BIDDER'S PLEDGE AND AGREEMENT

1. Each Bidder acknowledges that this is a public project involving public funds and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. Each Bidder by submitting a bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Engineer, (b) it will use its best efforts to cooperate with the Owner and the Engineer and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Engineer, and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.

B. EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS AND RELIANCE UPON TECHNICAL DATA

1. Each Bidder shall have a competent person carefully and diligently review each part of the Contract Documents, including the Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors, or omissions in the Contract Documents for which it has not notified the Owner in writing at least ten (10) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors, or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment, or materials of the better quality or greater quantity of Work and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any Change Order, additional compensation, or additional time on account of such conditions for any conflicts, inconsistencies, errors, or omissions that would have been discovered by such careful and diligent review, unless it has given prior written notice to the Owner.

2. Each Bidder shall have a competent person carefully and diligently inspect and examine the entire site and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, including location, condition, and layout of the site and the location of utilities, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder's bid shall include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of such conditions.

3. The Bidder may rely upon the general accuracy of any technical data identified in the Owner-Contractor Agreement (e.g., any soils exploration reports, soil boring logs, site survey, or abatement reports) in preparing its bid, but such technical data are not part of the Contract Documents. Except for the limited reliance described in the preceding sentence, Bidder may not, if awarded a contract for the Work, rely upon or make any Claim against the Owner or Engineer, or any of their agents or employees, with respect to any of the following:

    a. the completeness of such reports and drawings for Bidder's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by the successful Bidder and safety precautions and programs incident thereto; or

b. any interpretation by the successful Bidder of or conclusion drawn from any technical data or any such other data, interpretations, opinions, or information. For example, all interpolations and extrapolations of data performed by the Bidder to estimate locations or quantities of subsurface strata are independent factual assumptions, which Owner does not warrant.

4. Each Bidder will be deemed to have actual knowledge of all information provided or discussed at the pre-bid meeting.

C. OWNER & ENGINEER

1. The Owner is:

The City of Canton
218 Cleveland Avenue SW
Canton, OH 44702
Telephone: 330.489.3245
Fax: 330.489.3499

The Owner's Representative is:

Chris Barnes

2. The Design Engineer for the Project is:

Environmental Design Group
450 Grant St
Akron, Ohio 44311

D. PROJECT

1. The Project and Work for the Project consists of all labor, materials, equipment, and services necessary for construction of the project identified as **Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project** ("the Project"), all in accordance with the Drawings and Specifications prepared by the Engineer and/or Owner. The Project must be substantially complete by the Date for Substantial Completion set forth in Section Q below.

2. The Mayor **yes** determined that a Project Labor Agreement ("PLA") will advance the City's procurement interest in cost, efficiency, and quality while promoting labor-management stability as well as compliance with applicable legal requirements governing safety and health, equal employment opportunity, labor and employment standards, and other related matters. Any such PLA shall be negotiated by the Mayor of the Owner with the East Central Ohio Building and Construction Trades Council and its affiliated local unions, or said Council's successor. The successful Bidder shall comply with and adhere to all of the provisions of any PLA for the Project.

3. A pre-bid conference will be held at **NA on NA** at **NA**.

E. WORK

1. This Project includes **Excavation, earthwork, storm sewer, landscaping**, and the like as set forth in the Contract Documents.

2. Alternate No. 1 for this Project is **NA**.

3. Alternate No. 2 for this Project is **NA**.

4. Only one contract will be issued by the Owner for constructing the Project, the General Contract, which will cover all scopes of work necessary to construct the Project.

5. The Contractor awarded the General Contract (General Contractor) will be responsible for the performance and coordination of any and all subcontractors and suppliers either directly or indirectly contracted with the General Contractor.

6. Owner will provide Bidders access to the Project site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes, clean up, and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable laws, regulations and Owner's policies relative to excavation and utility locates. Bidders may contact **Chris Barnes,** The City of Canton, at **chris.barnes@cantonohio.gov** or **330-438-6908** if they have any interest in accessing the Project site, independent of any pre-bid meeting.

F. ESTIMATE OF COST

1. The total estimated construction cost for the Base Bid Work for the Project for which bids are being solicited at this time is **$250,000.00.**

   The estimated cost for Alternate 1 - **NA** is: **$-**.

   The estimated cost for Alternate 2 - **NA** is: **$-**.

G. CONTRACT DOCUMENTS

The Contract Documents consist of the documents listed in Section 1 of the Owner-Contractor Agreement.

Bidders may view and download copies of the Contract Documents from The City of Canton Purchasing web site at https://cantonohio.gov/448/Purchasing-Procurement, which is the only authorized source of the Contract Documents. The City of Canton's sourcing tool, Vendor Registry, will maintain the Bidder's list and will provide notice and copies of Addenda as issued. It is the responsibility of any person or organization interested in a hard copy of the Contract Documents to pay all costs associated with printing.

Bidders shall use complete sets of Contract Documents in preparing bids. Neither the Owner nor the Design Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

The Owner, in making the Contract Documents available on the above terms, does so only for the purpose of obtaining bids on the Work and does not confer a license or grant for any other use.

H. PREPARATION OF BIDS

1. All bids must be submitted on the "Bid Form" furnished with the Contract Documents.

2. All blank spaces shall be filled in, in ink or typewritten, in words and figures, and in figures only where no space is provided for words, and signed by the Bidder. The wording on the Bid Form shall be used without change, alteration, or addition. Any change in the wording or omission of specified accompanying documents may cause the bid to be rejected. If there is an inconsistency or conflict in the Bid, the lowest amount shall control, whether expressed in numbers or words.

3. Bidders shall note receipt of Addenda on the Bid Form. If the Bidder fails to acknowledge receipt of each Addendum, the Bid shall be deemed non-responsive, unless the Bid amount clearly and unambiguously reflects receipt of the Addendum or the Addendum involves only a matter of form and does not materially affect the price, quantity or quality of the Work to be performed.

4. Each Bidder shall submit **an original** of its bid to the Owner. The Bid Form shall be signed with the name typed or printed below the signature. A Bid shall not be submitted by facsimile transmission or any other electronic means. A Bidder that is a corporation shall sign its bid with the legal name of the corporation followed by the name of the state of incorporation and the legal signature of an officer authorized to bind the corporation to a contract.

5. Each Bid shall be enclosed in a sealed opaque envelope with the Bidder's name and the title of the Project printed in the upper left hand corner and addressed as follows:

   The City of Canton
   ATTN: Purchasing/Bids
   218 Cleveland Avenue SW
   Canton, OH 44702

   Bids must be received at the designated location for the bid opening before 2:00:00 PM, local time, on 3/17/2023.

6. The completed Bid Form shall be accompanied by the following completed documents:

   a. Pre-Bid Substitution, if any proposed substitutes have been pre-approved. (See Section K, below.)

   b. Bid Guaranty and, if applicable Contract Bond (See Paragraph H.8, below.)

   c. Contractor's Qualification Statement (See Paragraph I.4, below.)

   d. Contractor's List of Subcontracted Work Categories (See Paragraph I.5, below.)

   e. A list identifying its DBE subcontractors and participation rates as a percentage of the Contract Price, and if the DBE participation goal has not been met, certification of good faith efforts to meet the DBE participation goal. (See Section W, below.)

   f. The Project Labor Agreement (PLA) Letter of Assent (See Appendix A).

   g. If this project is funded in whole or part by the Ohio Public Works Commission, then certification of agreement and compliance with certain statements and covenants regarding Bidder's subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts (See Section Y, below.)

7. The Bidder shall take the following precautions in preparing its bid:

   a. Sign the bid and check to ensure all blank spaces have been filled in with requested information and that the specified accompanying documents (listed in Paragraph H.6 above) have been included in a sealed opaque envelope addressed as described in Paragraph H.5 above.

b. When the Bid Form provides for quoting either an addition or deduction for an Alternate item, indicate whether the sum named is an addition or deduction. If it is not indicated, it will be conclusively presumed that the amount is a deduction.

c. When the Bid Form provides for quoting a unit price, the Bidder should quote the unit price as set forth in the Contract Documents as described in Paragraph M.1 below.

d. When applicable, make sure that the Bid Guaranty is properly executed and signed by:

1) The Bidder
2) The Surety or Sureties

e. Make sure that the amount of the Bid Guaranty (if the Bid Guaranty is in the form of a certified check, letter of credit, or cashier's check) is for a specific sum in an amount as instructed in Paragraph H.8.a below. If the Bid Guaranty is in the form of the Bid Guaranty and Contract Bond, the amount may be left blank; if an amount is inserted, it must equal the total of the base bid and all add alternates included. If inserted, then the failure to state an amount equal to the total of the base bid and all add alternates shall make the bid non-responsive if the Owner selects alternates not included in the amount.

f. Make sure that the appropriate bid package and scope of work is inserted in the correct space on the Bid Guaranty and Contract Bond Form. Failure to include work covered by the bid submitted may make the bid non-responsive.

8. Bonds and Guarantees

a. Bid Guaranty: Bidder shall furnish a Bid Guaranty, as prescribed in Sections 153.54, 153.57, and 153.571 of the Ohio Revised Code, in the form of either: (1) a bond for the full amount of the bid in the form of the Bid Guaranty and Contract Bond included in the Contract Documents; or (2) a certified check, cashier's check, or irrevocable letter of credit in a form satisfactory to the Owner in an amount equal to 10% of the bid. Bid amount shall be the total of all sums bid, including all add alternatives, but excluding all deduct alternatives. **NOTE: AIA or EJCDC Bid Bond forms are not acceptable.**

b. Contract Bond: The successful Bidder, who, as a Bid Guaranty, submits a certified check, cashier's check, or irrevocable letter of credit in an amount equal to 10% of the bid, shall furnish a Contract Bond in the form included in the Contract Documents in an amount equal to 100% of the Contract Sum. **NOTE: AIA or EJCDC Bond forms are not acceptable.**

c. The bond must be issued by a surety company authorized by the Ohio Department of Insurance to transact business in the State of Ohio and acceptable to the Owner. The bond must be issued by a surety capable of demonstrating a record of competent underwriting, efficient management, adequate reserves, and sound investments. These criteria will be deemed to be met if the surety currently has an A.M. Best Company Policyholders Rating of "A-" or better and has or exceeds the

Best Financial Size Category of Class VI. Other sureties may be acceptable to the Owner, in its sole discretion.

d. All bonds shall be signed by an authorized agent of an acceptable surety and by the Bidder.

e. Surety bonds shall be supported by credentials showing the Power of Attorney of the agent, a certificate showing the legal right of the Surety Company to do business in the State of Ohio, and a financial statement of the Surety.

f. The Bid Guaranty, as applicable, shall be in the name of or payable to the order of the Owner.

g. The name and address of the Surety and the name and address of the Surety's Agent must be typed or printed on each bond.

9. Permits

a. Owner has obtained, or will obtain the following permits for the Project, as applicable:

NPDES Construction Storm Water Permit (obtained)

b. Contractor shall secure and pay for all other permits necessary to complete the Project. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

I. METHOD OF AWARD

1. All bids shall remain open for acceptance for sixty (60) days following the day of the bid opening, but the Owner may, in its sole discretion, release any bid and return the Bid Guaranty prior to that date. The Bid Guaranty shall be subject to forfeiture, as provided in the Ohio Revised Code, if a bid is withdrawn during the period when bids are being held.

2. The Owner reserves the right to reject any, part of any, or all bids and to waive any informalities and irregularities. The Bidder expressly acknowledges this right of the Owner to reject any or all bids or to reject any incomplete or irregular bid. Bidders must furnish all information requested on the Bid Form. Failure to do so may result in disqualification of the bid.

3. Determination of the Lowest and Best Bid. Subject to the right of the Owner to reject any or all bids, pursuant to the Codified Ordinances of Canton Chapters 105, 182, and 507, the Owner will award the Contract for the Work to the bidder submitting the lowest and best bid, taking into consideration accepted alternates. In evaluating bids, the Owner will consider the qualifications of the Bidders, whether or not the bids comply with the prescribed requirements, and alternates and unit prices, if requested, on the Bid Form. The Owner may also consider the qualifications and experience of subcontractors and suppliers. The Owner may conduct such investigations as are deemed necessary to establish the qualifications and financial ability of the Bidder and its subcontractors and suppliers. The factors the Owner may consider in determining which bid is the lowest and best include the factors set forth below, including the Additional Criteria. Depending upon the type of work, the Owner, in its discretion, may also consider other essential factors, as the Owner may determine and as are included in the Specifications. The Owner, in its discretion, may consider and give such weight to these criteria as it deems appropriate. The Owner, in its discretion, reserves the right to request additional

information and documentation relating to these criteria from Bidders after the bid opening.

a. Work to be subcontracted. The Bidder must identify all work to be subcontracted. See paragraph I.5 below. All subcontractors are subject to the approval of the Owner based on the criteria set forth in this Section I.

b. The Bidder's work history. The Bidder should have a record of consistent customer satisfaction and of consistent completion of projects, including projects that are comparable to or larger and more complex than the Owner's Project, on time and in accordance with the applicable Contract Documents, and based upon the Bidder's claims history. If the Bidder's management operates or has operated another construction company, the Owner may consider the work history of that company in determining whether the Bidder submitted the lowest and best bid.

The Owner will consider the Bidder's prior experience on other projects of similar scope and/or complexity including prior projects with the Owner and/or Design Professional, including the Bidder's demonstrated ability to complete its work on these projects in accordance with the Contract Documents and on time, and will also consider its ability and capacity to perform a substantial portion of the project with its own forces and its ability to work with the Owner and Engineer as a willing, cooperative, and successful team member. Bringing overstated claims, an excessive number of claims, acting uncooperatively, and filing lawsuits against project owners and/or their design professionals on prior projects of similar scope and/or complexity will be deemed evidence of a Bidder's inability to work with the Owner and Engineer as a willing, cooperative, and successful team member.

The Bidder authorizes the Owner and its representatives to contact the owners and design professionals (and construction managers, if applicable) on projects on which the Bidder has worked and authorizes and requests such owners and design professionals (and construction managers) to provide the Owner with a candid evaluation of the Bidder's performance. By submitting its bid, the Bidder agrees that if it or any person, directly or indirectly, on its behalf or for its benefit brings an action against any of such owners or design professionals (or construction managers) or the employees of any of them as a result of or related to such candid evaluation, the Bidder will indemnify and hold harmless such owners, design professionals (and construction managers) and the employees of any of them from any claims, whether or not proven, that are part of or are related to such action and from all legal fees and expenses incurred by any of them arising out of or related to such legal action. This obligation is expressly intended for the benefit of such owners, design professionals (and construction managers), and the employees of each of them.

c. The Bidder's prior history regarding timeliness of performance, quality of work, the Bidder's history of filing claims and having claims filed against it, extension requests, fines and penalties imposed and payments thereof, and contract defaults, with explanations.

d. The Bidder's compliance with federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act, Ohio Prevailing Wage laws, Davis Bacon, and Ohio ethics laws.

e. The Bidder's prior experience with similar work on comparable or more complex projects.

f. The number of years the Bidder has been actively engaged as a contractor in the construction industry.

g. The Bidder's recent experience record in the construction industry, including the original contract price for each construction job undertaken by the bidder, the amount of any change orders or cost overruns on each job, the reasons for the change orders or cost overruns, and the bidder's record for complying with and meeting completion deadlines on construction projects.

h. A public entities' determination, within the previous five years, that the Bidder was not a responsible bidder, the reasons given by the public entity, and the Bidder's explanation thereof.

i. The Bidder's financial ability to complete the Contract successfully and on time without resort to its Surety.

j. Financial responsibility demonstrated by the Bidder and whether Bidder possesses adequate resources and availability of credit, the means and ability to procure insurance and acceptable performance bonds required for the Project and whether any claims have been made against performance bonds secured by the bidder on other construction projects.

k. Any suspension or revocations of any professional license of any director, officer, owner, or managerial employees of the Bidder, to the extent that any work to be performed on this Project is within the field of such licensed profession.

l. The Bidder's equipment and facilities.

m. The size and experience of the Bidder's work force and the Bidder's ability to complete the Contract successfully and on time.

n. The experience and the continuity of the Bidder's work force including the project manager and project superintendent's tenure with the Bidder.

o. The Bidder's participation in a drug-free workplace program acceptable to the Owner, and the Bidder's record for both resolved and unresolved findings of the Auditor of State for recovery as defined in Section 9.24 of the Ohio Revised Code.

p. The Owner's prior experience with the Bidder's surety.

q. The Bidder's interest in the Project as evidenced by its attendance at any pre-bid meetings or conferences for bidders.

r. The adequacy, in numbers and experience, of the Bidders' work force to complete the Contract successfully and on time.

s. The foregoing information with respect to each of the Subcontractors and Suppliers that the Bidder intends to use on the Project.

4. Qualifications Statement. Each Bidder will submit with its bid a completed Contractor Qualifications Statement, which is included with the Contract Documents, and thereafter provide the Owner promptly with such additional information as the Owner may request regarding the Bidder's qualifications. A Bidder shall submit any requested additional information within three (3) business days of the date on the request.

5. List of Subcontracted Work Categories. Each Bidder will submit with its bid a completed list of Subcontracted Work Categories, which is included with the Contract Documents, and thereafter provide the Owner promptly with such additional information as the Owner may request regarding the Bidder's qualifications. A Bidder shall submit any requested information within three (3) business days of the date on the request.

6. Additional Criteria for Determining Lowest and Best Bid. Pursuant to the Codified Ordinances of the City of Canton, Chapter 105, the Owner, in its discretion, may consider any or all of the Additional Criteria below in determining which bid is lowest and best.

   a. Any OSHA violations within the previous three years, as well as all notices of OSHA citations filed against the Bidder in the same three year period, together with a description and explanation of remediation or other steps taken regarding such violations and notices of violation.

   b. Any violations within the previous five years pertaining to unlawful intimidation or discrimination against any employee by reason of race, creed, color, disability, gender, or national origin, and/or violation of any employee's civil or labor rights or equal employment opportunities.

   c. Any litigation in which the Bidder has been named as a defendant or third party defendant in an action involving a claim for personal injury or wrongful death arising from performance of work related to any project in which it has been engaged within the previous five years. Bidders shall provide copies of pleadings.

   d. Allegations of violations of the prevailing wage law and any other state or federal labor law, including, but not limited to, child labor violations, failure to pay wages, or unemployment insurance tax delinquencies or unfair labor practices within the past five years.

   e. Violations of the workers compensation law.

   f. Any criminal convictions or criminal indictments, involving the Bidder, its officers, directors, owners, and/or managers within the past five years.

   g. Any violation within the past five years or pending charges concerning federal, state, or municipal environmental and/or health laws, codes, rules, and/or regulations.

   h. Documentation that the Bidder provides health insurance and pension benefits to its employees.

   i. Whether the Bidder participates in a bona fide apprenticeship program that is approved by the Ohio State Apprenticeship Council and the United States Department of Labor.

   j. Whether the Bidder has adopted and implemented a comprehensive drug and alcohol testing program for its employees.

   k. Whether the Bidder's employees are OSHA-10 and/or OSHA-30 certified.

   l. The Bidder's commitment to comply with the Owner's Contract Compliance Program regarding equal employment opportunity. Each Bidder shall file contract employment reports with the Owner's contracting agency or as may be directed by the Owner or its representative. Such contract employment reports shall include such information as to the employment practices, policies, programs, and statistics of the Bidder and shall be in such form as the Owner may prescribe.

m. The foregoing information with respect to each of the Subcontractors and Suppliers that the Bidder intends to use on the Project.

7. The failure to submit information that Owner has the right to receive under these Instructions to Bidders on a timely basis may result in the determination that the Bidder has not submitted the lowest and best bid.

8. By submitting its bid, the Bidder agrees that the Owner's determination of which bidder is the lowest and best bidder shall be final and conclusive, and that if the Bidder or any person on its behalf challenges such determination in any legal proceeding, the Bidder will indemnify and hold the Owner and its employees and agents harmless from any claims included or related to such legal proceeding, and from legal fees and expenses incurred by the Owner, its employees, or agents that arise out of or are related to such challenge.

9. After bid opening, within three (3) business days of a request made by the Owner, the apparent low Bidder and any other Bidder so requested by the Owner must submit the following:

For all subcontracts with an estimated value of at least $50,000, a list of all Subcontractors that the Bidder will use to construct the Project, as well as an indication of whether or not the Bidder has ever worked with a proposed Subcontractor before, including the following information for the <u>three</u> most recent projects on which the Bidder and each Subcontractor have worked together:

i. Project Owner

ii. Project Name

iii. Subcontract Scope

iv. Subcontract Value

v. Owner's contact name and phone number.

If Bidder and a proposed Subcontractor have not worked together on at least three projects in the past five years, Bidder must submit the information set forth above for the three most recent similar projects to the Project that a proposed Subcontractor has worked on.

The above Subcontractor information, as well as the criteria set forth in Paragraph I.3 herein, as it pertains to each Subcontractor may be used in the Owner's determination of the lowest and best bid.

Once a Bidder identifies its proposed Subcontractors as set forth in this Paragraph I.9, the list shall not be changed unless written approval or direction for the change is made by Owner.

10. <u>Additional Post-Bid Submittals</u>

a) <u>Affidavit as to Personal Property Taxes</u>. The successful Bidder shall submit, prior to the time of the entry into the Contract, an affidavit in the form required by Section 5719.042, Ohio Revised Code, regarding the status of the Bidder's personal property taxes. A copy of the affidavit form is included with the Contract Documents.

11. The Owner reserves the right to disqualify bids, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices on the part of the Bidder.

12. Award of Contract. The award of the Contract will only be made pursuant to approval of the City's Board of Control.

J. EXECUTION OF CONTRACT

1. Within the time designated by the Owner after award of the Contract, the successful Bidder shall execute and deliver to the Owner the required number of copies of the Owner-Contractor Agreement, in the form included in the Contract Documents, and all accompanying documents requested, including, but not limited to, a Contract Bond (if applicable), insurance certificates, and a valid Workers' Compensation Certificate. The successful Bidder shall have no property interest or rights under the Owner-Contractor Agreement until the Agreement is executed by the Owner.

K. SUBSTITUTIONS/NON-SPECIFIED PRODUCTS

1. Certain brands of material or apparatus may be specified. Should this be the case, each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner of use in the Project) may be requested as provided herein. Substitutions, however, will not be considered in determining the lowest and best bid.

2. The products specified in the Contract Documents establish a standard of required function, dimension, appearance, and quality.

3. Bidders wishing to obtain approval to bid non-specified products shall submit written requests to the Owner a minimum of seven (7) working days before the bid date and hour. To facilitate the submission of requests, a Substitution Form is included in the Contract Documents. The Bidder shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution, including the name of the proposed manufacturer and/or product and a complete description of the product including the manufacturer's name and model number or system proposed, drawings, product literature, performance and test data, color selections or limitations, and any other information necessary for evaluation. Include a statement including any changes in other materials, equipment, or other work that would be required if the proposed product is incorporated in the work. The burden of proof of the merit of the proposed product is on the proposer. The Owner's decision on approval of a proposed product will be final.

   The following will be cause for rejection of a proposed substitution:

   a. Requests submitted by subcontractors, material suppliers, and individuals other than Bidders;

   b. Requests submitted without adequate documentation;

   c. Requests received after the specified cut-off date;

   d. Requests, which in the sole discretion of the Owner, do not offer a sufficient benefit to the Project.

4. When the Owner approves a product submission before receipt of bids, the approval will be included in an Addendum, and Bidders may include the pricing of this product in their bid. Bidders shall not rely on approvals made in any other manner.

5. In proposing a non-specified product or a substitution, the Bidder represents and warrants that each proposed product will not result in any changes to the Project, including changes to the Work or other contractors, or any decrease in the performance of any equipment or systems to be installed in the Project and agrees to pay any additional costs incurred by the Owner and the Owner's consultants as a result of a non-specified or substitute product that is accepted.

6. If an addendum is issued approving a substitution for a specified Standard, any Bidder proposed to use said substitution must indicate so with its Bid, using the form provided.

7. Following the award of the Contract, there shall be no substitution for specified products, except pursuant to a Change Order. The Owner in its sole discretion may decline to consider a substitution for a Change Order.

8. The Owner reserves the right to value engineer any item within the specifications if it is deemed to be in the best interest of the Owner.

L. ALTERNATES

1. The Owner may request bids on alternates. At the time of awarding the Contract, the Owner will select or reject alternates as it determines is in its best interest. A Bidder's failure to include on its Bid Form the cost of an alternate selected by the Owner and applicable to the Bidder's work shall render the bid non-responsive and be grounds for the rejection of the bid. Otherwise, the failure to include the cost of an alternate will not be deemed material.

2. The Bidder acknowledges that although there is an estimate for the cost of the Project, the market conditions may and frequently do result in the estimate being different from the sum of the bids received, either higher or lower. The Bidder understands that the Owner may include alternates, which may include deduct alternates as well as add alternates, to give it flexibility to build the Project with the funds available. The Bidder further understands and acknowledges that use of add and deduct alternates is a long held customary practice in the construction industry in the State of Ohio. The Bidder also acknowledges that the Owner will not make a decision about the alternates on which to base the award of contracts until the bids are received, and the Owner can compare its available funds with the base bids and the cost or savings from selecting different alternates. The Bidder understands that the award to the Bidder submitting the lowest and best bid will be based on the base bid plus selected alternates, and may result in an award to a Bidder other than the Bidder that submitted the lowest base bid.

M. UNIT PRICES

1. Where unit prices are requested in the Bid Form the Bidder should quote a unit price. Unless otherwise expressly provided in the Contract Documents, such unit prices shall include all labor, materials, and services necessary for the timely and proper installation of the item for which the unit prices are requested. The unit prices quoted in the bid shall be the basis for any Change Orders entered into under the Owner-Contractor Agreement, unless the Owner determines that the use of such unit prices will cause substantial inequity to either the Contractor or the Owner.

N. ADDENDA

1. All questions should be submitted in writing at least five (5) business days prior to the bid opening. **This is 3/10/2023, 2:00:00 PM.** The Owner reserves the right to issue Addenda changing, altering, or supplementing the Contract Documents prior to the time set for receiving bids. The Owner will issue the Addenda to clarify bidders' questions and/or to change, alter, or supplement the Contract Documents.

2. Any explanation, interpretation, correction, or modification of the Contract Documents will be issued in writing in the form of an Addendum, which shall be the only means considered binding; explanations, interpretations, etc., made by any other means shall NOT be legally binding. All Addenda shall become a part of the Contract Documents.

3. All Addenda will be issued, except as hereafter provided, via the current City bid tool at least seventy-two (72) hours prior to the published time for the opening of bids, excluding Saturdays, Sundays, and legal holidays. If any Addendum is issued within such seventy-two (72) hour period, then the time for opening of bids shall be extended one (1) week with no further advertising of bids required.

4. Copies of each Addendum will be posted via the Owner's current bid tool and it is the responsibility of the bidder or any other interested party to check the bid tool for any updates or addenda. Receipt of Addenda shall be indicated by Bidders in the space provided on the Bid Form. Bidders are responsible for acquiring issued Addenda in time to incorporate them into their bid. Bidders should check the Owner's bid tool prior to the bid opening to verify the number of Addenda issued.

5. Each Bidder shall carefully read and review the Contract Documents and immediately bring to the attention of the Owner any error, omission, inconsistency, or ambiguity therein.

6. If a Bidder fails to indicate receipt of all Addenda through the last Addendum issued by the Owner on its Bid Form, the bid of such Bidder will be deemed to be responsive only if:

   a. The bid received clearly indicates that the Bidder received the Addendum, such as where the Addendum added another item to be bid upon and the Bidder submitted a bid on that item; or

   b. The Addendum involves only a matter of form or is one which has either no effect or has merely a trivial or negligible effect on price, quantity, quality, or delivery of the item bid upon.

O. INTERPRETATION

1. If a Bidder contemplating submitting a bid for the proposed Project is in doubt as to the true meaning of any part of the Contract Documents, it may submit a written request for an interpretation thereof to the Owner at purchasing@cantonohio.gov. Requests received fewer than 5 days prior to bid opening may not be answered. Any interpretation of the proposed documents will be made by Addendum only and will be made available by the City's web tool. The Owner will not be responsible for any other explanation or interpretation of the proposed documents.

2. In interpreting the Contract Documents, words describing materials that have a well-known technical or trade meaning, unless otherwise specifically defined in the Contract Documents, shall be construed in accordance with the well-known meaning recognized by the trade.

3. Bidders are responsible for notifying the Owner in a timely manner of any ambiguities, inconsistencies, errors, or omissions in the Contract Documents. The Bidder shall not, at any time after the execution of the Contract, be compensated for a claim alleging insufficient data, incomplete Contract Documents, or incorrectly assumed conditions regarding the nature or character of the Work, if no request was made by the Bidder prior to the bid opening.

P. STATE SALES AND USE TAXES

1. The Owner is a political subdivision of the State of Ohio and is exempt from taxation under the Ohio Sales Tax and Use Tax Laws. Building materials that the successful Bidder purchases for incorporation into the Project will be exempt from state sales and use taxes if the successful Bidder provides a properly completed Ohio Department of Taxation Construction Contract Exemption Certificate to the vendors or suppliers when the materials are acquired. The Owner will execute properly completed certificates on request.

Q. DATE FOR SUBSTANTIAL COMPLETION/DATE FOR FINAL COMPLETION/LIQUIDATED DAMAGES

1. Dates for Substantial Completion. The Contract Time shall run from the date of the Notice to Proceed or if there is no Notice to Proceed from the Effective Date of the Owner-Contractor Agreement. The Date for Substantial Completion and the Contract Time may be extended only by Change Order. **By submitting its Bid, each Bidder agrees that the period for performing its Work is reasonable.**

   a. Date for Overall Project Substantial Completion. The successful Bidder shall have all of its Work on the Project Substantially Complete (as Substantial Completion is defined in the Contract Documents) by the following date as applicable to the Bidder's scope of work.

      Date for Substantial Completion (aka Contract Time) expressed as calendar days from Notice to Proceed:

      180 calendar days

2. Liquidated Damages.

   a. Overall Project Substantial Completion. If the successful Bidder does not have its Work Substantially Complete by its Date for Substantial Completion or Finally Complete within thirty (30) calendar days of achieving Substantial Completion, whichever may be applicable, the successful Bidder shall pay the Owner and the Owner may set off from amounts otherwise due the successful Bidder Liquidated Damages. The daily amounts of Liquidated Damages for Overall Project Substantial Completion are set forth in the tables included in the Owner-Contractor Agreement. The total amount of Liquidated Damages will be calculated based on the total number of calendar days beyond the Date for Substantial Completion that the Bidder's Work is not Substantially Complete or to the extent that its Work is not Finally Complete more than thirty (30) calendar days after the Substantial Completion of its Work, i.e., number of late days times the per diem rate(s) for Liquidated Damages in the tables.

3. The Bidder acknowledges and agrees, by submitting its bid for the Work and entering into a Contract with the Owner, that such amounts of Liquidated Damages represent a reasonable estimate of the actual damages for loss of or interference with the intended use of the Project that the Owner would incur if the Bidder's Work is not Substantially Complete by its Date for Substantial Completion and/or not Finally Complete by thirty (30) days of the Date of Substantial Completion. The Bidder further acknowledges, agrees and understands that it may seek an extension of the Contract Time (and its Date for Substantial Completion) to avoid or reduce Liquidated Damages by properly following the Claim procedures in the Contract Documents.

R. OWNER'S RIGHT TO WAIVE DEFECTS AND IRREGULARITIES

1. The Owner reserves the right to waive any and all irregularities provided that the defects and irregularities do not affect the amount of the bid in any material respect or otherwise give the Bidder a competitive advantage.

S. MODIFICATION/WITHDRAWAL OF BIDS

1. Modification. A Bidder may modify its bid by written communication to the Owner at any time prior to the scheduled closing time for receipt of bids, provided such written communication is received by Owner prior to the bid deadline. The written communication shall not reveal the bid price, but should provide the addition or subtraction or other modification so that the final prices or terms will not be known until the sealed bid is opened. If the Bidder's written instructions with the change in bid reveal the bid amount in any way prior to the bid opening, the bid may be rejected as non-responsive.

2. Withdrawal Prior to Bid Deadline. A Bidder may withdraw its bid at any time for any reason prior to the bid deadline for the opening of bids established in the Legal Notice. The request to withdraw shall be made in writing to and received by the Owner prior to the time of the bid opening.

3. Withdrawal after Bid Deadline.

   a. All bids shall remain valid and open for acceptance for a period of at least 60 days after the bid opening; provided, however, that a Bidder may withdraw its bid from consideration after the bid deadline when all of the following apply:

      (1) the price bid was substantially lower than the other bids;

      (2) the reason for the bid being substantially lower was a clerical mistake, rather than a mistake in judgment, and was due to an unintentional and substantial error in arithmetic or an unintentional omission of a substantial quantity of work, labor, or material;

      (3) the bid was submitted in good faith; and

      (4) the Bidder provides written notice to the Owner within two (2) business days after the bid opening for which the right to withdraw is claimed.

   b. No bid may be withdrawn under this provision if the result would be the awarding of the contract on another bid for the bid package from which the Bidder is withdrawing its bid to the same Bidder.

   c. If a bid is withdrawn under this provision, the Owner may award the Contract to another Bidder determined by the Owner to be the lowest and best bidder or the Owner may reject all bids and advertise for other bids. In the event the Owner advertises for other bids, the withdrawing Bidder shall pay the costs incurred in connection with the rebidding by the Owner, including the cost of printing new Contract Documents, required advertising, and printing and mailing notices to prospective bidders, if the Owner finds that such costs would not have been incurred but for such withdrawal.

T. COMPLIANCE WITH APPLICABLE LAWS

1. By submitting a bid for Work on the Project, the Bidder acknowledges that it is in compliance with applicable federal, state, and local laws and regulations, including, but not limited to, the following:

   a. Equal Employment Opportunity/Nondiscrimination. The Bidder agrees that if it is awarded a contract that in the hiring of employees for performance of work under the contract or any subcontract, neither it nor any subcontractor, or any person acting on its behalf or its subcontractor's behalf, by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color, shall discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform work to which the employment relates. The Bidder further agrees that neither it nor any subcontractor or any person on its behalf or on behalf of any subcontractor, in any manner, shall discriminate against or intimidate any employees hired for the performance of the work under the contract on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.

   b. Ethics Laws. The Bidder represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements.

U. FINDINGS FOR RECOVERY

1. By submitting its bid, each Bidder certifies for reliance of the Owner that it has no unresolved finding for recovery against it issued by the Auditor of the State of Ohio on or after January 1, 2001, except as permitted by Section 9.24 (F) of the Ohio Revised Code.

V. PREVAILING WAGES

1. The Project is a "Construction" project as defined in Section 4115.03 of the Ohio Revised Code. If the Project is defined as such as "Construction" project, the successful Bidder and all of its subcontractors, regardless of tier, will strictly comply with its obligation to pay a rate of wages on the Project not less than the rate of wages fixed for this Project under Section 4115.04 of the Ohio Revised Code. Additionally, the successful Bidder will comply with all other provisions of Chapter 4115 of the Ohio Revised Code.

W. DBE PARTICIPATION GOALS

1. Owner has established the following Disadvantaged Business Enterprise ("DBE") participation goal for the Project as a percentage of the Contract Price:

   7%

2. Any Minority Business Enterprise ("MBE") or Woman-Owned Business Enterprise ("WBE") proposed to count towards the DBE participation goal must first be certified at bid time as an MBE or WBE under the Ohio Department of Administrative Services MBE Cross Certification Program (which includes MBEs and WBEs certified by the City of Canton), or certified as a DBE under Ohio's Unified Certification Program administered by the Ohio Department of Transportation.

3. **Documentation of DBE Participation. Each Bidder must submit with its bid a list identifying its DBE subcontractors and participation rates as a percentage of the Contract Price.**

4. **<u>Certification of Good Faith Efforts.</u> If a Bidder has <u>not</u> met the DBE participation goal, it must attach to its bid, a narrative (which may include exhibits) demonstrating the good faith efforts made by the Bidder to secure DBE participation in the Project. Good faith efforts include:**

   - **Conducting outreach and recruiting activities;**
   - **Informing DBEs of the opportunity to participate in the Project at least 30 calendar days before the bid closes;**
   - **Considering subcontracting with a consortium of DBEs; and**
   - **Using the services and assistance of the Small Business Administration and Minority Development Agency of the U.S. Department of Commerce.**

   Owner, in its sole discretion, will be the sole evaluator of whether any particular Bidders' efforts sufficiently demonstrate good faith efforts for securing DBE participation.

5. <u>Challenges to Owner's Discretion</u>. If any Bidder directly challenges, or indirectly challenges through contribution of money or other resources to a third party, Owner's discretion in determining any Bidder's compliance with the DBE goal stated in these Instructions to Bidders, or good faith efforts pertaining to same, that Bidder agrees to indemnify Owner for all claims, costs, losses and damages, including attorney and consultant fees, arising out of such challenge, should there be an adjudication by a court of competent jurisdiction that the Owner did not abuse its discretion in making its determination.

6. <u>Failure to Comply</u>. If a Bidder is awarded a contract for the Project, and later fails to fulfill its stated DBE participation goals, that Bidder agrees to indemnify Owner for all claims, costs, losses and damages, including attorney and consultant fees, arising out of such failure. That Bidder also agrees to cooperate with all reasonable requests to determine actual DBE participation, including but not limited to certifying actual participation and providing documentation in support of same.

X. OTHER LOCAL ORDINANCE REQUIREMENTS

1. Each Bidder, by the act of submitting its bid agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances of the City of Canton for wages, salaries, fees, and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this Agreement. Bidder agrees with the Owner regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code. Municipal income tax withholding provisions of Section 718.011(B)(1) and 718.011(D) of the Ohio Revised Code shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property. Each Bidder agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.

2. Each Bidder, by the act of submitting its bid agrees that all steel necessary in the construction of the Work performed under the Agreement shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply.

3. Each Bidder, by the act of submitting its bid agrees that all materials used in the construction covered by the Agreement shall be purchased in the Canton area except such materials which are unavailable in the Canton area.

4. Chapter 105.12 – Local Bidder Preference.

a. The Board of Control, in determining the lowest and best bidder in the award of contracts to which this section is applicable, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than five percent (5%) higher, subject to a maximum amount of twenty thousand dollars ($20,000.00), than the lowest dollar bid submitted by non-local bidders. The Board of Control's decision in making such an award shall be final.

b. For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract has a headquarters, division, sales office, sales outlet, manufacturing facility, or similar significant business-related location in Stark County, Ohio.

c. All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice:

Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section 105.12 of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of Section 105.12 is attached.

d. This section shall be applicable to all contracts for equipment, goods, machinery, materials, supplies, vehicles and/or services, which are purchased, leased and/or constructed at a cost in excess of fifty thousand dollars ($50,000.00) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03. (Ord. 115-2018. Passed 5-14-18.)

5. Each Bidder, by the act of submitting its bid agrees as follows during the performance of the Agreement:

a. The Contractor shall not discriminate against any employee or applicant for employment because of race, age, handicap, religion, color, sex, national origin, sexual orientation, or gender identity. The Contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to race, religion, color, sex, national origin, military status, sexual orientation, or gender identity. As used herein, the word "treated" shall mean and include without limitation the following: recruited, whether by advertising or other means; compensation, whether in the form of rates or pay or other forms of compensation; selected for training, including apprenticeship; promoted; demoted; upgraded; downgraded; transferred; laid off; and terminated. The Contractor agrees to and shall post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officers setting forth the provisions of this nondiscrimination clause.

b. The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, age, handicap, religion, color, sex, national origin, military status, sexual orientation, or gender identity.

c. The Contractor shall send to each labor union or representative of workers, with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or workers' representative of the Contractor's commitments under the equal opportunity clause of the Owner; and it shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The Contractor shall submit in writing to the Owner its affirmative action plan, and each subcontractor and supplier of equipment or supplies shall submit to the Contractor its affirmative action plan. The responsibility for securing these affirmative action plans falls upon the Contractor and shall be on file at the office of the Contractor. The Contractor shall furnish all information and reports required by the Owner or its representative pursuant to the Contract Documents, and shall permit access to its books, records, and accounts by the contracting agency of the Owner and by the Executive Secretary of the Owner for purposes of investigation to ascertain compliance with the program.

e. The Contractor shall take such action with respect to any subcontractor as the Owner may direct as a means of enforcing the provisions of this equal opportunity clause, including penalties and sanctions for noncompliance; provided, however, that in the event the Contractor becomes involved in or is threatened with litigation as is necessary to protect the interests of the Owner and to effectuate the Owner's equal opportunity program and, in the case of contracts receiving Federal assistance, the Contractor or the Owner may request the United States to enter into such litigation to protect the interests of the United States.

f. The Contractor shall file and shall cause its subcontractors, if any, to file compliance reports with the Owner in the form and to the extent prescribed by the Owner or its representative. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs, and statistics of the Contractor and its subcontractors.

g. The Contractor shall include the provisions of this equal employment opportunity clause in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.

h. Refusal by the Contractor or subcontractor to comply with any portion of this program as herein stated and described will subject the offending party to any or all of the following penalties:

(1) Withholding of all future payments under the involved public contract to the Contractor in violation, until it is determined that the Contractor or subcontractor is in compliance with the provisions of the Agreement.

(2) Refusal of all future bids for any public contract with the Owner or any of its departments or divisions, until such time as the Contractor or subcontractor demonstrates that it has established and shall carry out the policies of the program as herein outlined.

(3) Cancellation of the public contract and declaration of forfeiture of the performance bond.

(4) In cases is which there is substantial or material violation or the threat of substantial or material violation of the compliance procedure or as may be provided by contract, appropriate proceedings may be brought to enforce these provisions, including enjoining within applicable laws of contractors, subcontractors, or other organizations, individuals, or groups who prevent, directly or indirectly, or seek to prevent, directly or indirectly, compliance with the policy as herein outlined.

2. A Project Labor Agreement (PLA) yes been required for this project (See Appendix A if applicable). Prevailing Wages are required for this Project (See Appendix B).

Y. OHIO PUBLIC WORKS COMMISSION FUNDING

1. **No** When this line is checked by the Owner, e.g. with an "X" or other mark, the Project is being funded in whole or part by the Ohio Public Works Commission ("OPWC"), and the requirements of the OPWC, attached to these Instructions to Bidders, apply.

2. The OPWC requirements include that the Bidder include with its bid certification of agreement and compliance with certain statements and covenants regarding its subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts.

END OF INSTRUCTIONS TO BIDDERS

OWNER-CONTRACTOR AGREEMENT

[Where Engineer is a Third Party Hired by Owner and Engineer Has Construction Administration Duties]

Owner:
The City of Canton
218 Cleveland Avenue SW
Canton, OH 44702
Telephone: 330.489.3283

Contract:
Ordinance: 117/2022
Alternates:

Contractor:
Telephone:
Fax:

Project: Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID)

This document is an agreement between the Owner and the Contractor for the Work described in the Contract Documents related to the Contract identified above for the Project defined above and is effective as of the date the Agreement is signed by the Owner (the "Effective Date").

The Owner and the Contractor agree as set forth in the following sections:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following documents:

A. Legal Notice;
B. Instructions to Bidders;
C. Bid Form;
D. Owner-Contractor Agreement;
E. General Conditions of the Contract for Construction (EJCDC C-700), as modified;
F. Supplementary Conditions (when applicable);
G. Drawings;
H. Specifications;
I. Project Labor Agreement (if applicable)
J. Addenda issued;
K. Contractor's Personal Property Tax Affidavit (O.R.C. 5719.042);
L. Statement of Claim Form; and
M. Modifications issued after the execution of the contract, including:
   i. A Change Order;
   ii. A Work Change Directive; or,
   iii. A written order for a minor change of the Work issued by the Owner or Engineer in accordance with the General Conditions.

N. **Yes**__ When this line is checked by the Owner, e.g. with an "X" or other mark, the State of Ohio Department of Transportation, Construction and Material Specifications, effective as of January 1, 2019, will be a Contract Document, but only as modified by the document titled *ODOT Manual Supplement*, prepared by Owner.
O. Project Labor Agreement (if applicable)

1.1 Notwithstanding anything in the Contract Documents to the contrary, in the event of any inconsistency, the provisions of this Agreement shall control over any other Contract Document, proposal, document, or other attachment. In the event inconsistencies, conflicts, or ambiguities between or among the Contract Documents

are discovered after execution of the Agreement, Contractor shall provide the better quality or greater quantity of Work or comply with the more stringent requirements.

Note: **Non-Contract Documents**. The following are the reports and tests of subsurface conditions at or contiguous to the Site, if any, that the Engineer has used in preparing the Contract Documents. These are not Contract Documents. Geotechnical data is not a warranty of subsurface conditions and is not to be relied upon as a complete representation of all possible soil conditions. It is possible that there may be other reports, and/or tests of subsurface conditions at or contiguous to the Site not prepared by or on behalf of Owner. The Owner makes no representation about such reports and/or tests, assuming they exist. Additional information, if needed by Contractor for geotechnical data or site survey, shall be obtained by the Contractor at no additional cost to Owner. The General Conditions, as modified, contain additional terms related to these reports and tests.

Contractor may rely upon the general accuracy of the “technical data” contained in such reports and drawings listed below, and except for such reliance on “technical data,” Contractor shall not rely upon or make any claim against Owner or Engineer with respect to: (1) the completeness of such reports and drawings for Contractor’s purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or (2) other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or (3) any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information. For example, all interpolations and extrapolations of data performed by Contractor to estimate locations or quantities of subsurface strata are independent factual assumptions which Owner does not warrant. (Not applicable, if none are listed).

Note: **Non-Contract Documents**. The following are those reports and drawings related to any Hazardous Conditions at the Site, if any. These are not Contract Documents. The General Conditions, as modified, contain additional terms related to these reports and drawings. (None if none are listed).

2. ENGINEER RELATIONSHIP. The Contract Documents shall not be construed to create a contractual relationship of any kind between the Engineer and the Contractor or any Subcontractor or Material Supplier to the Project. The Engineer, however, shall be entitled to performance of the obligations of the Contractor intended for its benefit and to enforcement of such obligations, but nothing contained herein shall be deemed to give the Contractor or any third party any claim or right of action against the Engineer that does not otherwise exist without regard to this Contract. The Contractor and its Subcontractors shall not be deemed to be beneficiaries of any of the acts or services of the Engineer that are performed for the sole benefit of the Owner. The Contractor shall forward all communications to the Owner through the Engineer and hereby acknowledges and agrees that any instructions, reviews, advice, approvals, orders, or directives that are rendered to it by the Engineer are specifically authorized and directed by the Owner to the Contractor through the Engineer acting on behalf of the Owner.

Engineer will be performing construction administration duties as identified in the General Conditions, including, but not limited to: reviewing Applications for Payment, Change Proposals, Claims, and Shop Drawings; measuring Work quantities; and issuing Work Change Directives.

2.1 The Engineer is:
City Engineering
2436 30th St NE
Canton, Ohio 44706

3. TIME FOR COMPLETION AND PROJECT COORDINATION.

3.1 DATE OF COMMENCEMENT. The date of commencement of the Work shall be the date identified in the Notice to Proceed issued by the Owner, or by the Owner through the Engineer, to the Contractor, or if there is no Notice to Proceed, the Effective Date of this Agreement.

3.2 DATE OF SUBSTANTIAL COMPLETION. The Project and Work for the Project consists of all labor, materials, equipment, and services necessary for construction of the Project, all in accordance with the Drawings and Specifications prepared by the Owner or Engineer. The Contractor shall achieve Substantial Completion of its Work on the Project, as defined in the General Conditions, within **180 calendar days** of the Date of Commencement ("Date of Substantial Completion"). Substantial Completion is the time at which the Work has progressed to the point where the Work is sufficiently complete, in accordance with the Contract Documents, so that the Work can be utilized for the purposes for which it is intended.

****The project duration has been extended from 90 days to 180 days and shall be completed by October 1, 2023.**

3.2.1 DATE OF FINAL COMPLETION. The Contractor shall achieve Final Completion of its Work on the Project, as defined in the General Conditions, within **30 calendar days** of the Date of Substantial Completion ("Date of Final Completion"). Final Completion shall mean that the Work is complete in accordance with the Contract Documents and the Contractor has submitted to the Owner or Engineer all documents required to be submitted to the Owner or Engineer for final payment.

3.2.2 UTILITIES AND OPERATIONS. Contractor shall not interrupt utilities to facilities or existing operations without prior written notice and approval by Owner.

3.2.3 SHUTDOWN DATES. Due to events scheduled by the Owner and/or other Owner considerations, Contractor will not be able to perform Work on the Project on the following dates (there are no shutdown dates if none are listed):

Contractor's Construction Schedule for performing the Work shall account for Contractor not being able to perform Work on these dates and the contractual dates for Substantial Completion and Final Completion will not be changed due to Contractor not being able to perform Work on these dates.

3.3 CONSTRUCTION SCHEDULE. The Construction Schedule shall be developed by the Contractor as provided in the Contract Documents.

3.4 LIQUIDATED DAMAGES. If the Contractor does not have its Work on the Project Substantially Complete by the specified Date for Substantial Completion or Finally Complete by the Date of Final Completion, the Contractor shall pay the Owner (and the Owner may set off from sums coming due the Contractor) Liquidated Damages in the per diem amounts as set forth in the following tables, whichever may be applicable. "Contract Amount" of the Work will be determined by totaling the cost of all line items of Work.

LIQUIDATED DAMAGES – DATE FOR SUBSTANTIAL COMPLETION OF OVERALL PROJECT

Original Contract Amount	Dollars Per Day
$1.00 to $500,000.00	$ 750.00
$500,000.01 to $2,000,000.00	$ 1,000.00
$2,000,000.01 to $10,000,000.00	$ 1,300.00
$10,000,000.01 to $50,000,000.00	$ 2,000.00
$50,000,000.01 and greater	$ 2,500.00

LIQUIDATED DAMAGES – FINAL COMPLETION

Original Contract Amount	Dollars Per Day
$1.00 to $500,000.00	$ 200.00
$500,000.01 to $2,000,000.00	$ 250.00
$2,000,000.01 to $10,000,000.00	$ 325.00
$10,000,000.01 to $50,000,000.00	$ 500.00
$50,000,000.01 and greater	$ 625.00

LIQUIDATED DAMAGES FOR SUBSTANTIAL COMPLETION FOR ANY INTERIM MILESTONE SCOPE WILL BE $1,000 PER DAY FOR EACH DAY OF UNEXCUSED DELAY BEYOND THE MILESTONE.

The Contractor acknowledges that such amounts of Liquidated Damages represent a reasonable estimate of the actual damages for loss of or interference with the intended use of the Project that the Owner would incur if the Contractor's Work is not Substantially Complete by its Date for Substantial Completion or Finally Complete by the required date for Final Completion.

4. **CONTRACT SUM (also called Contract Price).** The Contract Sum to be paid by the Owner to the Contractor, as provided herein, for the satisfactory performance and completion of the Work and all of the duties, obligations, and responsibilities of the Contractor under this Agreement and the other Contract Documents is , subject to adjustment as set forth in the Contract Documents. The Contract Sum includes Allowances, Accepted Alternates, and all federal, state, county, municipal, and other taxes imposed by law, including but not limited to any sales, use, commercial activity, and personal property taxes payable by or levied against the Contractor on account of the Work or the materials incorporated into the Work. The Contractor will pay any such taxes. The Contract Sum includes the following:

4.1 Base Bid Amount: (Lump Sum Bid); and

4.2 Accepted Alternates, included in the Contract Sum:

Alternate No.	Description	Amount
1	NA	
2	NA	

4.3 Allowances included in the Contract Sum:

Allowance Description	Amount
Allowance #1: NA	
Allowance #2: NA	

4.4 If after Substantial Completion of its Work, the Contractor fails to submit its final payment application with all the documents required to be submitted with such application within ninety (90) days after written notice to do so from the Owner and without prejudice to any other rights and remedies the Owner may have available to it, the balance of the Contract Sum shall become the Owner's sole and exclusive property, and the Contractor shall have no further interest in or right to such balance.

5. **RETAINAGE.** Retainage applicable to the Contract by Ohio Revised Code Sections 153.12, .13, and .14 will be withheld as defined in the Modified General Conditions. The Contractor agrees that the

financial institution selected by the Owner for deposit of retained funds is acceptable to the Contractor and will sign any documents requested related to said account.

6. GENERAL.

6.1 MODIFICATION. No modification or waiver of any of the terms of this Agreement or of any other Contract Documents will be effective against a party unless set forth in writing and signed by or on behalf of a party. In the case of the Owner, the person executing the modification or waiver must have express authority to execute the Modification on behalf of the Owner pursuant to a resolution that is duly adopted by the Owner. Under no circumstances will forbearance, including the failure or repeated failure to insist upon compliance with the terms of the Contract Documents, constitute the waiver or modification of any such terms. The parties acknowledge that no person has authority to modify this Agreement or the other Contract Documents or to waive any of its or their terms, except as expressly provided in this section.

6.2 ASSIGNMENT. The Contractor may not assign this Agreement without the written consent of the Owner, which the Owner may withhold in its sole discretion.

6.3 LAW AND JURISDICTION. All questions regarding the validity, intention, or meaning of this Agreement or any modifications of it relating to the rights and obligation of the parties will be construed and resolved under the laws of the State of Ohio. Any suit, which may be brought to enforce any provision of this Agreement or any remedy with respect hereto, shall be brought in the Common Pleas Court of the county in which the Project is located and each party hereby expressly consents to the exclusive jurisdiction of such court to the exclusion of any other court, including any U.S. District Court or any other federal court.

6.4 CONSTRUCTION. The parties acknowledge that each party has reviewed this Agreement and the other Contract Documents and entered into this Agreement as a free and voluntary act. Accordingly, the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party will not be employed in the interpretation of this Agreement, the other Contract Documents, or any amendments or exhibits to it or them.

6.5 APPROVALS. Except as expressly provided herein, the approvals and determinations of the Owner and Engineer will be subject to the sole discretion of the respective party and be valid and binding on the Contractor, provided only that they be made in good faith, i.e., honestly. If the Contractor challenges any such approval or determination, the Contractor has the burden of proving that it was not made in good faith by clear and convincing evidence.

6.6 PARTIAL INVALIDITY. If any term or provision of this Agreement is found to be illegal, unenforceable, or in violation of any laws, statutes, ordinances, or regulations of any public authority having jurisdiction, then, notwithstanding such term or provision, this Agreement will remain in full force and effect and such term will be deemed stricken; provided this Agreement will be interpreted, when possible, so as to reflect the intentions of the parties as indicated by any such stricken term or provision.

6.7 COMPLIANCE WITH LAWS AND REGULATIONS. The Contractor, at its expense, will comply with all applicable federal, state, and local laws, rules, and regulations applicable to the Work, including but not limited to Chapter 4115 of the Ohio Revised Code and Sections 153.59 and 153.60 of the Ohio Revised Code, which prohibit discrimination in the hiring and treatment of employees, with respect to which the Contractor agrees to comply and to require its subcontractors to comply.

6.7.1 NON-DISCRIMINATION. Contractor agrees:

.1 That in the hiring of employees for the performance of Work under this Agreement or in any subcontract, neither the Contractor, subcontractor, or any person acting on behalf of either of them, shall by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform the Work to which the employment relates.

.2 That neither the Contractor, subcontractor, nor any person acting on behalf of either of them shall, in any manner, discriminate against or intimidate any employee hired for the performance of Work under this Agreement on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.

.3 That there shall be deducted from the amount payable to the Contractor by the Owner under this Agreement a forfeiture of twenty-five dollars ($25.00) as required by Ohio Revised Code Section 153.60 for each person who is discriminated against or intimidated in violation of this Agreement.

.4 That this Agreement may be canceled or terminated by the Owner and all money to become due hereunder may be forfeited for a second or subsequent violation of the terms of this section of this Agreement.

6.7.2 **PREVAILING WAGE RATES.** The Contractor and its subcontractors, regardless of tier, shall strictly comply with their obligation, if any, to pay their employees working on the Project site at the applicable prevailing wage rates for the type of work, including any changes thereto, pursuant to Ohio Revised Code Chapter 4115 or Davis Bacon rates and requirements.

6.7.3 **ETHICS.** By signing and entering into this agreement with the Owner, the Contractor represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements. The Contractor understands that failure to comply with the ethics laws is, in itself, grounds for termination of this contract and may result in the loss of other contracts with the Owner.

6.8 **JOB MEETINGS.** The Contractor or one of its representatives with authority to bind the Contractor will attend all job meetings. The Owner anticipates that job meetings will be scheduled on a weekly basis during construction or as needed. The Contractor will ensure that its Subcontractors also hold regular job meetings at which safety issues and job matters are discussed as these relate to the Work being performed. Job meetings include, but are not limited to, pre-construction meetings, weekly job meetings, weekly safety tool box meetings, and monthly safety meetings.

6.9 **PROPERTY TAX AFFIDAVIT.** The Contractor's affidavit given under Section 5719.024, Ohio Revised Code, is incorporated herein.

6.10 **WARRANTIES.** Notwithstanding anything to the contrary in the Contract Documents, including the Project Manual and Specifications, no warranties by Contractor shall be limited to any time shorter than the statute of limitations for written contracts in Ohio.

6.11 **CONTRACTOR ATTESTATIONS.**

.1 Contractor attests that it has not scaled these contract documents to determine quantities for bids, as Contractor has field verified and taken its own dimensions to determine the quantities for its bid.

.2 Contractor agrees that all the scales noted on the drawings are correct; so as to give it an "intent" of what is to be bid. Contractor has not relied on any other dimensions than what are noted in text and dimension lines.

.3 Contractor has thoroughly read the Contract Documents and has asked any and all questions it has on the intent of the scope of work, or supposed errors and omissions contained in these drawings, during the bid process and prior to signing this Agreement.

.4 Contractor will not be asserting a claim for additional time or money associated with the three issues listed above.

.5 Contractor believes it has accurately interpreted the Contract Documents and has asked for clarification and received satisfactory response for all items not thoroughly addressed or appeared to be conflicting in the Contract Documents and has found all stipulations and

requirements contained in this Agreement are as stated in the bid specifications and are enforceable according to Ohio Law, including but not limited to the Owner's right of offset, and the Owner's right to assess liquidated damages for work not completed according to the milestones listed on the project schedule contained in the Contract Documents.

6.12 ENTIRE AGREEMENT. This Agreement and the other Contract Documents constitute the entire agreement among the parties with respect to their subject matter and will supersede all prior and contemporaneous, oral or written, agreements, negotiations, communications, representations, and understandings with respect to such subject matter, and no person is justified in relying on such agreements, negotiations, communications, representations, or understandings.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their properly authorized representatives and agree that this Agreement is effective as of the date first set forth above.

Owner:
The City of Canton

By: _____

Name: _____

Title: _____

Date: _____

Contractor:

By: _____

Name: _____

Title: _____

Date: _____

CERTIFICATE
(Section 5705.41, R.C.)

The undersigned, fiscal officer of the Owner, certifies that the moneys required to pay that part of the Contract Sum coming due during the current fiscal year, under the Agreement to which this Certificate is attached have been lawfully appropriated for such purpose and are in the appropriate account of the Owner, or in the process of collection to the credit of the appropriate account or fund, free from any previous encumbrances. Moneys due in excess of the Contract Sum shall require an additional and separate Fiscal Officer's Certificate.

DATED: _____

_____
Fiscal Officer

BID GUARANTY AND CONTRACT BOND

(O.R.C. § 153.571)

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned _____ _____ ("Contractor") as principal and _____ _____ as surety are hereby held and firmly bound unto the **City of Canton** as obligee in the penal sum of the dollar amount of the bid submitted by the principal to the obligee on _____ _____, 20__, to undertake the construction of the **Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project** ("Project"). The penal sum referred to herein shall be the dollar amount of the principal's bid to the obligee, incorporating any additive or deductive Alternates made by the principal on the date referred to above to the obligee, which are accepted by the obligee. In no case shall the penal sum exceed the amount of _____ _____ Dollars ($_____). (If the foregoing blank is not filled in, the penal sum will be the full amount of the principal's bid, including add Alternates. Alternatively, if the blank is filled in the amount stated must not be less than the full amount of the bid including add Alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

Signed this _____ day of _____, 20__.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas the above named principal has submitted a bid for work on the Project.

Now, therefore, if the obligee accepts the bid of the principal and the principal fails to enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material; and in the event the principal pays to the obligee the difference not to exceed ten percent (10%) of the penalty hereof between the amount specified in the bid and such larger amount for which the obligee may in good faith contract with the next lowest bidder to perform the work covered by the bid; or in the event the obligee does not award the contract to the next lowest bidder and resubmits the project for bidding, the principal pays to the obligee the difference not-to-exceed ten percent (10%) of the penalty hereof between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders, whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect; if the obligee accepts the bid of the principal and the principal within ten (10) days after the awarding of the contract enters into a proper contract in accordance with the bid, plans, details, specifications, and bills of material, which said contract is made a part of this bond the same as though set forth herein.

Now also, if the said principal shall well and faithfully do and perform the things agreed by said principal to be done and performed according to the terms of said contract; and shall pay all lawful claims of subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materialman or laborer having a just claim, as well as for the obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; and surety shall indemnify the obligee against all damage suffered by failure of the principal to perform the contract according to its provisions and in accordance with the plans, details, specifications, and bills of material therefor and to pay all lawful claims of subcontractors, materialmen, and laborers for labor performed or material furnished in carrying forward, performing, or completing the contract and surety further agrees and assents that this undertaking is for the benefit of any subcontractor, materialman, or laborer having a just claim, as well as for the obligee; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulates and agrees that no modifications, omissions, or additions in or to the terms of the said contract or in or to the plans or specifications therefore shall in any wise affect the

obligations of said surety on its bond, and does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to the work or to the specifications.

Signed and sealed this _____ day of _____, 20__.

_____
PRINCIPAL

By: _____

Printed Name & Title: _____

_____
SURETY

By: _____

Printed Name & Title: _____

_____

Surety's Address: _____

_____

Surety's Telephone Number: _____

Surety's Fax Number: _____

_____
SURETY'S AGENT

Surety's Agent's Address: _____

_____

Surety's Agent's Telephone Number: _____

Surety's Agent's Fax Number: _____

NOTE: The Contract Bond form that follows is to be used ONLY by a bidder that is awarded a contract <u>and</u> submits a form of bid guaranty other than the combined Bid Guaranty and Contract Bond with its bid. If a bidder submits a combined Bid Guaranty and Contract Bond, then the bid guaranty becomes the contract bond when the contract is awarded.

AIA and EJCDC Bid Bond or Payment and Performance Bond forms are not acceptable for this Project.

CONTRACT BOND
(O.R.C. § 153.57)

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned ("Contractor"), as principal, and _____, as surety, are hereby held and firmly bound unto the **City of Canton** ("Owner") as oblige, in the penal sum of _____ _____ Dollars ($_____ _____), for the payment of which well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas, the above-named principal did on the _____ day of _____, 20__, enter into a contract with the Owner for construction of the **Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project** ("Project"), which said contract is made a part of this bond the same as though set forth herein:

Now, if the said Contractor shall well and faithfully do and perform the things agreed by the Contractor to be done and performed according to the terms of said contract; and shall pay all lawful claims of subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materialman or laborer having a just claim, as well as for the obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulates and agrees that no modifications, omissions, or additions in or to the terms of the said contract or in or to the plans or specifications therefore shall in any wise affect the obligations of said surety on its bond, and does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to the work or to the specifications.

Signed and sealed this _____ day of _____, 20__.

_____
(PRINCIPAL)

By: _____

Printed Name & Title:_____

_____

_____
(SURETY)

By: _____

Printed Name & Title:_____

_____

Surety's Address: _____

_____

Surety's Telephone Number:_____

Surety's Fax Number:_____

_____
NAME OF SURETY'S AGENT

Surety's Agent's Address: _____

_____

Surety's Agent's Telephone Number:_____

Surety's Agent's Fax Number:_____

BID FORM

1.01 BID SUBMITTED BY:

_____
(Contractor)

Date bid submitted: _____

1.02 DELIVER TO:

The City of Canton
ATTN: **Purchasing/Bids**
218 Cleveland Avenue SW
Canton, OH 44702

1.03 Having carefully reviewed the Instructions to Bidders, Drawings, Specifications and other Contract Documents for the Project titled **Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project** including having also received, read, and taken into account the following Addenda:

Addendum No.	Dated
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

and likewise having inspected the site and the conditions affecting and governing the Project, the undersigned hereby proposes to furnish all materials and to perform all labor, as specified and described in the said Specifications and/or as shown on the said Drawings for all Work necessary to complete the Project on a timely basis and in accordance with the Contract Documents regardless of whether expressly provided for in such Specifications and Drawings.

1.04 Before completing the Bid Form, the undersigned represents that it has carefully reviewed the Legal Notice to Bidders, Instructions to Bidders, this Bid Form, Form of Bid Guaranty and Contract Bond, Contractor's Affidavit (O.R.C. 5719.042), Owner-Contractor Agreement, General Conditions of the Contract (EJCDC C-700) (as modified for the Project), Drawings, Project Specifications, and other Contract Documents. Failure to comply with provisions of the Contract Documents may be cause for disqualification of the bid.

1.05 BONDS AND CONTRACT: If the undersigned is notified of bid acceptance, it agrees to furnish required bonds as indicated in the Instructions to Bidders.

1.06 COMPLETION OF WORK: In submitting a bid, the undersigned agrees to execute the Owner-Contractor Agreement in the form included in the Contract Documents and to complete its Work as required by the Contract Documents.

NOTE A: The wording of the Bid Form shall be used throughout, without change, alteration, or addition. Any change may cause it to be rejected.

NOTE B: Bidder is cautioned to bid only on the Brands or Standards specified.

NOTE C: If there is an inconsistency or conflict in the Bid amount, the lowest amount shall control, whether expressed in numbers or words.

2.01 BID:

Include the cost of all labor and material for the contract listed below. Bidder is to fill in all blanks related to the Bid Package for which a bid is being submitted. If no bid is submitted for an item, leave the item blank or insert "NO BID" in the blank. For alternate items, indicate whether the amount stated is in addition to or a deduction from the base bid amount (if there is no indication whether the amount for an alternate is an addition or a deduction, the amount shall be a deduction).

2.02 Bidder will complete the Work in accordance with the Contract Documents for the prices set forth in the attached Bid Schedule.

3.01 INSTRUCTIONS FOR SIGNING

A. The person signing for a sole proprietorship must be the sole proprietor or his authorized representative. The name of the sole proprietor must be shown below.

B. The person signing for a partnership must be a partner or his authorized representative.

C. The person signing for a corporation must be the president, vice president or other authorized representative; or he must show authority, by affidavit, to bind the corporation.

D. The person signing for some other legal entity must show his authority, by affidavit, to bind the legal entity.

4.01 BIDDER CERTIFICATIONS. The Bidder hereby acknowledges that the following representations in this bid are material and not mere recitals:

1. **The Bidder acknowledges that this is a public project involving public funds, and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. The Bidder by submitting its bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Design Professional, (b) it will use its best efforts to cooperate with the Owner and the Design Professional and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Design Professional and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.**

2. The Bidder represents that it has had a competent person carefully and diligently review each part of the Contract Documents, including any Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors or omissions in the Contract Documents for which it has not notified the Owner in writing at least ten (10) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment or materials of the better quality or greater quantity of Work; and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any additional compensation for any conflicts, inconsistencies, errors or omissions that would have been discovered by such careful and diligent review, unless it has given such prior written notice to Owner.

3. The Bidder represents that it has had a competent person carefully and diligently inspect and examine the entire site for the Project and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder agrees that its bid shall include all costs attributable to site and surrounding area conditions that would have been

discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of conditions that could have been discovered by such an investigation.

4. The Bidder represents, understands and agrees that a) the Claim procedures in the General Conditions as modified for the Project are material terms of the Contract Documents, b) if it has a Claim, it will have its personnel provide complete and accurate information to complete and submit the Statement of Claim form on a timely basis, c) the proper completion and timely submission of a Statement of Claim form is a condition precedent to any change in the Contract Sum or the Contract Time(s), and d) the proper and timely submission of the Statement of Claim form provides the Owner with necessary information so that the Owner may investigate the Claim and mitigate its damages.

5. The Bidder represents that the bid contains the name of every person interested therein and is based upon the Standards specified by the Contract Documents.

6. The Bidder and each person signing on behalf of the Bidder certifies, and in the case of a bid by joint venture, each member thereof certifies as to such member's entity, under penalty of perjury, that to the best of the undersigned's knowledge and belief: (a) the Base Bid, any Unit Prices and any Alternate bid in the bid have been arrived at independently without collusion, consultation, communication or agreement, or for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Prices or Alternate bid with any other Bidder; (b) unless otherwise required by law, the Base Bid, any Unit Prices and any Alternate bid in the bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Prices or Alternate bid; (c) no attempt has been made or will be made by the Bidder to induce any other Person to submit or not to submit a bid for the purpose of restricting competition; and (d) the statements made in this Bid Form are true and correct.

7. The Bidder will execute the form of Owner/Contractor Agreement in the form included with the Contract Documents, if a Contract is awarded on the basis of this bid, and if the Bidder does not execute the Contract Form for any reason, other than as authorized by law, the Bidder and the Bidder's Surety are liable to the Owner.

8. The Bidder certifies that the upon the award of a Contract, the Contractor will ensure that all of the Contractor's employees, while working on the Project site, will not purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.

9. The Bidder agrees to furnish any information requested by the Owner's authorized representative to evaluate that the Bidder has submitted the lowest and best bid and that the bid is responsive to the specifications.

10. The Bidder certifies that it has no unresolved findings for recovery issued by the Auditor of State.

11. The Bidder certifies that it is aware of and in compliance with the requirements of Ohio Revised Code Section 3517.13 regarding campaign contributions.

LEGAL NAME OF BIDDER: _____

BIDDER IS (check one): __ sole proprietor __ partnership __ corporation __ other legal entity

NAME & TITLE OF PERSON LEGALLY AUTHORIZED TO BIND BIDDER TO A CONTRACT:

_____
Name Title

DATE SIGNED: _____

SIGNATURE: _____

ADDRESS: _____

_____

TELEPHONE: _____

FAX: _____

FEDERAL TAX I.D. # _____

When the Bidder is a partnership or a joint venture, state name and address of each partner in the partnership or participant in the joint venture below:

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

END OF SECTION

The City of Canton

CONTRACTOR'S QUALIFICATION STATEMENT

Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project

SUBMITTED TO: The City of Canton
ATTN: **Purchasing/Bids**
218 Cleveland Avenue SW
Canton, OH 44702

SUBMITTED BY: _____

NAME: _____

ADDRESS: _____
_____
_____

PRINCIPAL OFFICE: _____
_____

☐ Corporation

☐ Partnership

☐ Individual

☐ Joint Venture

☐ Other

NAME OF PROJECT: Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project

1. ORGANIZATION

1.1 How many years has your organization been in business as a Contractor in the construction industry?

1.2 How many years has your organization been in business under its present business name?

1.2.1 Under what other or former names has your organization operated?

1.3 If your organization is a corporation, answer the following:

1.3.1 Date of incorporation:

1.3.2 State of incorporation:

1.3.3 President's name:

1.3.4 Vice President's name(s):

1.3.5 Secretary's name:

1.3.6 Treasurer's name:

1.4 If your organization is a partnership, answer the following:

1.4.1 Date of organization:

1.4.2 Type of partnership (if applicable):

1.4.3 Name(s) of general partner(s):

1.5 If your organization is individually owned, answer the following:

1.5.1 Date of organization:

1.5.2 Name of owner:

1.6 If the form of your organization is other than those listed above, describe it and name the principals:

2. LICENSING

2.1. List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

2.2. List jurisdictions in which your organization's partnership or trade name is filed.

2.3. List any suspension or revocations of any professional license of any director, officer, owner, or managerial employees of the Contractor, to the extent that any work to be performed on this Project is within the field of such licensed profession.

3. EXPERIENCE

3.1. List the categories of work that your organization normally performs with its own forces.

3.2. Claims and Lawsuits (If the answer to any of the questions below is yes, please attach details.)

3.2.1. Has your organization ever failed to complete any work?

3.2.2. Has your organization ever failed to complete any work by the substantial completion date, final completion date, or in a timely manner?

3.2.3. Within the last five (5) years has your organization or any of its officers prosecuted any Claims, had any Claims prosecuted against it or them, or been involved in or is currently involved in any mediation or arbitration proceedings or lawsuits related to any construction project, or has any judgments or awards outstanding against it or them? Has your organization had any extension requests, fines and penalties imposed, or contract defaults? If the answer is yes, please attach the details for each Claim, including the names and telephone numbers of the persons who are parties, the amount of the Claim, the type of Claim and the basis for the Claim, and the outcome.

Note: As used in this document "Claim" means a Claim initiated under the Contract Documents for a project or relating to the Work for a project, including Claims made against performance bonds secured by the Contractor on other construction projects.

3.3. Has your organization ever failed to comply with federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act, the Ohio Prevailing Wage laws, and Ohio ethics laws? If the answer is yes, please attach details and reason(s) for each instance and the outcome including any fines or penalties imposed.

3.4. Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction

contract? If the answer is yes, please attach details for each instance, including the names and telephone numbers of the persons who are parties to the contract, and the reason(s) the contract was not completed.

3.5. On a separate sheet, list construction projects your organization has in progress with an original Contract Sum of more than $10,000,000, giving the name of project, owner and its telephone number, design professional and its telephone number, contract amount, percent complete and scheduled completion date.

3.5.1. State total amount of work in progress and under contract:

3.6. Provide the following information for each contract your organization has had during the last five (5) years, including current contracts, where the Contract Sum is fifty percent (50%) or more of the bid amount for this Project, including add alternates. Include details regarding timeliness of performance and quality of work. List the original contract price for each project, the amount of any change orders or cost overruns on each, the reasons for the change orders or cost overruns, and your organization's record for complying with and meeting completion deadlines on construction projects. If there are more than ten (10) of these contracts, only provide information on the most recent ten (10) contracts, including current contracts.

Project And Work	Contract Sum	Owner's Representative & Telephone Number	Engineer's Or Architect's Representative Name & Telephone Number	Additional Comments

3.7. Provide the following information for each project your organization has had during the last five (5) years, which your organization believes is of comparable or greater size and complexity than the Owner's project. Include details regarding how such projects demonstrate your organization's ability and capacity to perform a substantial portion of the Project with its own work force. If there are more than five (5) of these projects, only provide information on the most recent five (5) projects, including current projects.

Project And Work	Contract Sum	Owner's Representative & Telephone Number	Engineer's Or Architect's Representative Name & Telephone Number	Additional Comments

3.7.1. State average annual amount of construction work your organization has performed during the last five years.

3.7.2. If any of the following members of your organization's management -- president, chairman of the board, or any director -- operates or has operated another construction company during the last five (5) years, identify the member of management and the name of the construction company.

3.7.3. If your organization is operating under a trade name registration with the Secretary of State for the State of Ohio, identify the entity for which the trade name is registered. If none, state "none."

3.7.4. If your organization is a division or wholly-owned subsidiary of another entity or has another relationship with another entity, identify the entity of which it is a division or wholly-owned subsidiary or with which it has another relationship and also identify the nature of the relationship. If none, state "not applicable."

3.8. On a separate sheet, list the construction education, training, construction experience, and tenure with your organization for each person who will fill a management role on the Project, including without limitation the Project Executive, Project Engineer, Project Manager, and Project Superintendent. For each person listed, include with the other information the last three projects on which the person worked and the name and telephone number of the Design Professional and the Owner.

3.9. Describe the size and experience of your organization's work force and your equipment and facilities, in relation to your organization's ability to complete the Project successfully and on time.

4. REFERENCES

4.1. Trade References:

4.2. Bank References:

4.3. Surety:

4.3.1. Name of bonding company:

4.3.2. Name and address of agent:

5. FINANCING

5.1 Financial Statement **(May be required, but only post-bid. Not a requirement to provide with bid.)**

5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets;

Other Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes); and

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

5.1.2 Name and address of firm preparing attached financial statement, and date thereof.

5.1.3 Is the attached financial statement for the identical organization named on page one?

5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidiary).

5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

5.3 Attach additional documentation or explanations demonstrating your organization's financial responsibility, adequate resources and availability of credit, its means and ability to procure insurance and acceptable performance bonds required for the Project.

6. Does your organization participate in a drug-free workplace program? Provide your organization's record for both resolved and unresolved findings of the Auditor of the State of Ohio for recovery as defined in Section 9.24 of the Ohio Revised Code.

7. List any projects within the previous five years where a public entity determined that your organization was not a responsible bidder, including the name of the public entity, the reasons given by the public entity, and an explanation thereof.

8. Additional Criteria. Pursuant to the Codified Ordinance of the City of Canton, Chapter 105, the Owner, in its discretion, reserves the right to request additional information and documentation relating to the foregoing and related to any of the criteria listed in Paragraph I.6 of the Instructions to Bidders from Bidders after the bid opening. The Owner may consider such information and documentation in determining which bid is lowest and best. The Owner, in its discretion, may consider and give such weight to any and all criteria as it deems appropriate.

[left intentionally blank]

Certification. The undersigned certifies for the reliance of the Owner that after diligent investigation, to the best of the undersigned's belief, the information provided with this Contractor's Qualification Statement is true, accurate and not misleading.

SIGNATURE:

Dated this _____ day of _____ 20____.

Name of Organization: _____

By: _____
[print name]

Signature: _____

Title: _____

State of _____

County of _____

_____, being duly sworn, deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

Subscribed and sworn before me this _____ day of _____ 20__.

_____
Notary Public

My Commission Expires:_____

SEAL

Modified General Conditions (EJCDC)

Please go to this link for the document or enter the following link information into a web browser:

https://cantonohio.gov/DocumentCenter/View/596/Modified-Standard-General-Conditions-of-the-Construction-Contract---3rd-Party-Engineer

ODOT MANUAL SUPPLEMENT

This Supplement shall apply where and to the extent that the State of Ohio Department of Transportation Construction and Material Specifications, in the current version as of January 1, 2019, is expressly incorporated into the Contract Documents via the Owner-Contractor Agreement, or when designated as a Contract Document in the list of Contract Documents in the Owner-Contractor Agreement, or is referenced anywhere else in the Contract Documents as one of the Contract Documents.

1. **Regardless of any terms to the contrary in Division 100 or elsewhere, any directions or orders of the Engineer that will result in an adjustment of the Contract Price or the Contract Time shall require the prior written approval of the Owner. It is expressly understood and agreed that the Engineer does not have authority to authorize changes or modifications in the Contract Price or Contract Time.**

2. The Contractor's obligations under this ODOT Supplement are in addition to and not in limitation of its other obligations under the Contract Documents.

3. Delays. Regardless of the terms in this ODOT Supplement, including Item 109.05, all time adjustments shall be subject to a) filing a Change Proposal and / or Claim in accordance with Articles 11 and 12 of the Modified Standard General Conditions **of the Contract for Construction (EJCDC C-700, 2013 edition) ("Modified Standard General Conditions"), b)** substantiating the Contractor's entitlement to a time adjustment in accordance with the Modified Standard General Conditions and c) Item 109.05. The Contractor will be entitled to additional compensation for delays but only for those delays described in the Modified Standard General Conditions. As part of the Claims process and as a condition precedent to receiving any additional compensation, the Contractor shall prepare a cost analysis as allowed by Item 109.05.D substantiating its entitlement to additional compensation.

4. Division 100, General Provisions. The following Division 100 General Provisions of the State of Ohio Department of Transportation, Construction Specifications Manual in the current version as of January 31, 2019, are incorporated in this ODOT Supplement, subject to any changes or limitations herein.

a. **Item 101.01**, General.

b. Item 101.02, Abbreviations, provided that references to DCA, DDD, DET, DGE shall mean the Owner.

c. Item 101.03, Definitions, provided where terms that are defined in the other Contract Documents, the definition in the other Contract Documents shall control, and further provided that the following definitions are deleted, modified and/or added:

i. Claims is deleted

ii. Contract Bond is deleted.

iii. Contract Documents is deleted.

iv. Contract Price is deleted.

v. Contract Time is deleted.

vi. Contractor is deleted.

vii. Department shall mean the Owner.

viii. Director shall mean the Owner's representative.

ix. Disputes is deleted.

x. Engineer is deleted.

xi. Extra Work Contract is deleted.

xii. Final Acceptance shall mean Final Completion as defined in the Owner Contractor Agreement.

xiii. Final Inspector shall mean the Owner.

xiv. Laboratory is deleted.

xv. Prebid Question is deleted.

xvi. Proposal Guaranty is deleted.

xvii. Questionnaire is deleted.

xviii. Shop Drawings is deleted.

xix. Signatures on Contract Documents is deleted.

xx. State or state shall mean the Owner.

xxi. Subcontractor is deleted.

xxii. Work is deleted.

d. **Item 101.04, Interpretations.**

e. Item 103.03, Cancellation of Award.

f. Item 104.02.D.2, Significant Changes in the Character of the Work (including Tables 104.02-1 and 104.02-2 following this Item), provided that all references to Item 108 and 109.12 are deleted and that all time adjustments shall be subject to filing a Change Proposal and / or Claim in accordance with the Modified Standard General Conditions and substantiating the entitlement to an extension of time as provided in the Modified Standard General Conditions (EJCDC Document C-700, 2013 edition) ("Modified Standard General Conditions").

g. Item 104.03, Rights in and Use of Materials Found on the Work.

h. Item 104.04, Cleaning Up.

i. Item 105.02, Plans and Working Drawings, provided that the review of submittals may be by the Owner or the Engineer in the Owner's discretion.

j. Item 105.06, Superintendent.

k. Item 105.10, Inspection of Work.

l. Item 105.11, Removal of Defective and Unauthorized Work.

m. Item 105.12, Load Restrictions.

n. Item 105.13, Haul Roads, provided that the second paragraph in this Item is deleted. The Contractor shall be responsible for any damage to the roads referred to in the second paragraph.

o. Item 105.14, Maintenance During Construction, except substitute "Final Completion" for "Final Inspector accepts the work under 109.12" and delete the remainder of the first sentence. Additionally, delete the second to last sentence in this Item.

p. Item 105.15, Failure to Maintain Roadway or Structure.

q. Item 105.16, Borrow and Waste Areas.

r. Item 105.17, Construction and Demolition Debris.

s. Item 106.01, Source of Supply and Quality Requirements.

t. Item 106.02, Samples, Tests and Cited Specifications, provided that this Item will be optional at the discretion of the Owner. If the Owner elects to proceed under this Item, a) the Contractor

without additional cost will provide material samples as required by the Owner, and b) the Owner may conduct such tests as it determines proper.

u. **Item 106.03, Small Quantities and Materials for Temporary Application.**

v. Item **106.04, Plant Sampling and Testing Plan.**

w. **Item 106.05, Storage of Materials.**

x. **Item 106.06, Handling Materials.**

y. **Item 106.07, Unacceptable Materials, except substitute the word "unacceptance" in the third sentence with the word "unacceptable."**

z. Item 106.08, **Department-Furnished Material.**

aa. **Item 106.09, Steel and Iron Products Made in the United States.**

bb. **Item 107.01, Laws to be Observed.**

cc. **Item 107.02, Permits, Licenses, and Taxes.**

dd. **Item 107.03, Patented Devices, Materials, and Processes.**

ee. **Item 107.05, Federal-Aid Provisions.**

ff. **Item 107.06, Sanitary Provisions.**

gg. **Item 107.07, Public Convenience and Safety.**

hh. **Item 107.08, Bridges Over Navigable Waters.**

ii. Item **107.09, Use of Explosives, provided that both bringing explosives onto the site and any use of explosives shall require the prior written approval of the Owner.**

jj. Item **107.10, Protection and Restoration of Property, provided that the Contractor shall remain responsible for** all damage and injury to property until the Project is Finally Complete, and all references to Items 109.11 and 109.12 are deleted.

kk. Item **107.11, Contractor's Use of the Project Right-of-Way or Other Department-Owned Property, provided the reference to Item 109.12 is deleted.**

ll. Item **107.12, Responsibility for Damage Claims and Liability Insurance, provided that all notices and certificates shall be delivered to the Owner's representative and, if there is no Owner's representative, to the Engineer. Reference to the "**State of Ohio, Department of Transportation" shall mean the Owner.

mm. Item **107.13, Reporting, Investigating, and Resolving Motorist Damage Claims, provided that this item is modified to read, "**When a motorist reports damage to its vehicle either verbally or in writing to the Contractor, the Contractor shall within 3 days make and file a written report to the Owner and the Engineer and also file a report with its insurance carrier".

nn. Item **107.14** Opening **Sections of Project to Traffic, provided that the reference to Item 108.06 is deleted.**

oo. Item **107.15, Contractor's Responsibility for Work, provided that reference to "**Final Inspection according to 109.12.A" shall mean "Final Completion." and all references to Item 108 are deleted.

pp. Item **107.17, Furnishing Right-of-Way.**

qq. Item **107.19, Environmental Protection, provided that the Owner makes no representation as to having acquired any permits unless expressly provided in the Contract Documents. The Contractor will comply with any permits obtained by the Owner.**

rr. Item **107.20, Civil Rights.**

ss. Item **107.21, Prompt Payment.**

tt. **with information or reports on DBE participation unless the Contract Documents otherwise require such reports or information. Additionally, unless otherwise provided in the Contract Documents, the 50% self-contracting requirement in the first sentence is waived.**

uu. Item **108.04, Limitation of Operations.**

vv. Item **108.05, Character of Workers, Methods, and Equipment.**

ww. Item **108.10, Payroll Records.**

xx. Item 109.01, Measurement of Quantities, provided that this item will apply only where payment is to be based on the measurement of quantities.

yy. Item 109.02, Measurement Units.

zz. Item 109.03, Scope of Payment.

aaa. Item **108.01, Subletting of the Contract, provided that the Contractor need not provide the Owner** (Reserved.)

bbb. Item 109.05, Extra Work as modified in this Supplement, provided that a) the references to Items 105.07, 105.10 and 108 are deleted, b) all negotiated prices shall require the Owner's written approval, c) the Owner must approve in writing any directions or orders by the Engineer to proceed with force account work, d) in Item 109.05.B.2 the reference to Department shall mean the Ohio Department of Transportation, e) the compensation provided in 109.05.B through 109.05.D constitutes payment in full for all the items referred to in Items 109.05.C.1-10, except for any additional compensation for delays, f) the mark-ups provided in Items 109.05.D.2.b and 109.05.D.2.d are deleted, and g) Item 109.05.D.2.f regarding home office overhead is deleted. The Contractor's entitlement to home office overhead, if any, shall be subject to current Ohio law.

ccc. **109.06, Directed Acceleration.**

ddd. **(Reserved.)**

eee. **109.08, Unrecoverable Costs.**

5. Divisions 200 through 700. Divisions 200 through 700 of the State of Ohio Department of Transportation, Construction Specifications Manual in the current version as of January 31, 2019 are incorporated in this ODOT Supplement.

a. All references to Division 100 Items in Divisions 200 through 700 shall be to the Division 100 Items as modified in this Supplement.

b. Where Division 100 Items are referred to in Divisions 200 through 700 but are not included in this Supplement, the deleted references will be governed by this Paragraph 5.

c. In Item 203.04, the reference to Item 108.06 shall be governed by Paragraph 3, Delays, in this Supplement.

d. In Item 514.24, the reference to Item 109.10 shall be governed by the payment provisions in the Modified Standard General Conditions.

e. In Item 624.04, the reference to item 109.09 shall be governed by the payment provisions in the Modified Standard General Conditions, i.e., the Owner will process and make payments in accordance with the provisions in the Modified Standard General Conditions. In this regard, the basis for payment of mobilization costs will be as provided in Item 624.04.

f. General to Divisions 200 through 700. The basis for payment provided in the Basis for Payment items in these Divisions shall be the basis for payment to the Contractor when applicable.

END OF ODOT SUPPLEMENT

City of Canton Codified Ordinances

Bidders shall take notice that they are to comply with the Codified Ordinances of the City of Canton, including but not limited to, the following:

1. **Chapter 105.02 – Public Paving Time Restrictions.**
   All City public paving contracts shall include a provision for liquidated damages in order to provide the City reasonable compensation for actual damages due to a failure to ensure that asphalt paving take place on the City's road surfaces from May 1st to October 1st; and/or during optimal climatic conditions that are conducive to the best mix compacting and long term durability of the pavement, according to the highest and best practices of the asphalt paving industry.
   (Ord. 270-2014. Passed 12-29-14.)

2. **Chapter 105.03 – U.S. Steel Usage Required; Exception.**
   All City contracts shall stipulate or provide that all steel necessary in the construction of any work performed under such contracts shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply. This section shall apply to only contracts awarded by the Board of Control of the City.
   (Ord. 224-77. Passed 6-27-77.)

3. **Chapter 105.05 – Materials to be Purchased Locally.**
   In all future contracts for the construction of buildings, structures, or other improvements under the Capital Improvement Budget, the following clause shall be printed or typewritten on each contract:
   It is the desire of the City of Canton that all materials used in the construction covered by this contract shall be purchased in the Canton area except such materials which are unavailable in the Canton area.
   (Res. 49-77. Passed 2-7-77.)

4. **Chapter 105.06 – Minority Contract Provision.**
   a. All contracts with the City shall include the following clause:
   The bidder agrees to expend at least $_____of the Contract in the event the contract is awarded to such bidder for minority/women's business enterprises. For purposes of this pledge, the term "minority/women's business enterprise" means a bona fide business established as a sole proprietorship, partnership or corporation owned, operated and controlled by one or more minority persons or women who have at least fifty-one percent (51%) ownership. "Minority" includes African Americans, Asian/Pacific Islanders, Hispanic/Latino Americans and Native American Indians. The minority or woman must have operational and managerial control, interest in capital, and earnings commensurate with the percentage of ownership. Minority/women's business enterprises may be employed as construction contractors, subcontractors, vendors or suppliers.
   (Ord.185-2011. Passed 10-31-11.)

5. **Chapter 105.12 – Local Bidder Preference.**
   a. The Board of Control, in determining the lowest and best bidder in the award of contracts to which this section is applicable, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than five percent (5%) higher, subject to a maximum amount of twenty thousand dollars ($20,000.00), than the lowest dollar bid submitted by non-local bidders. The Board of Control's decision in making such an award shall be final.

b. For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract has a headquarters, division, sales office, sales outlet, manufacturing facility, or similar significant business-related location in Stark County, Ohio.

c. All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice:

Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section 105.12 of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of Section 105.12 is attached.

d. This section shall be applicable to all contracts for equipment, goods, machinery, materials, supplies, vehicles and/or services, which are purchased, leased and/or constructed at a cost in excess of fifty thousand dollars ($50,000.00) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03.

(Ord. 115-2018. Passed 5-14-18.)

6. Chapter 105.15 – City Income Tax

a. No person, partnership, corporation or unincorporated association may be awarded a contract with the City under Sections 105.09 or 105.10, unless the bidder is paid in full or is current and not otherwise delinquent in the payment of City income taxes, including any obligation to pay taxes withheld from employees under Section 182.05 and any payment on net profits under Section 182.06.

b. Falsification of any information related to or any post-contractual violation of the requirement to pay City income taxes set forth in subsection (a) shall constitute cause for the rescission of the balance of the contract at the City's discretion.

c. No partnership, corporation or unincorporated association which has as one of its partners, shareholders or owners a person who is a twenty percent (20%) or greater equity owner in such partnership, corporation or unincorporated association and who is delinquent in the payment of City income taxes as set forth in subsection (a), may be awarded a contract with the City under Sections 105.09 or 105.10.

d. A person who is a twenty percent (20%) or greater equity owner in any partnership, corporation or unincorporated association which is delinquent in the payment of City income taxes as set forth in subsection (a) may not be awarded a contract with the City under Sections 105.09 or 105.10.

e. A contract awarded under Sections 105.09 or 105.10 for a public improvement project, services other than personal or professional services, and personal or professional services shall not be binding or valid unless such contract contains the following provisions:

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has

a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.
(Ord. 238-2015. Passed 11-30-15.)

7. Chapter 182.30 – Contract Provisions

a. No contract on behalf of the City under Sections 105.09 or 105.10 of the Codified Ordinances of Canton for a public improvement project, services other than personal or professional services, and personal or professional services shall be binding or valid unless such contract contains the following provisions:

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.

b. By entering into contract with the City of Canton _____ agrees with the City regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code.
   i. Municipal income tax withholding provisions of Sections 718.011(B)(1) and 718.011(D) ORC shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property.
   ii. _____ agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.

(Ord. 238-2015. Passed 11-30-15.)

8. Chapter 507.03 – Equal Employment Opportunity Clause.

b. During the performance of this contract, the contractor agrees as follows:
   1. The contractor shall not discriminate against any employee or applicant for employment because of race, age, handicap, religion, color, sex, national origin, sexual orientation or gender identity. The contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to race, religion, color, sex, national origin, military status, sexual orientation or gender identity. As used herein, the word "treated" shall mean and include without limitation the following: recruited, whether by advertising or other means; compensation, whether in the form of rates or pay or other forms of compensation; selected for training, including apprenticeship; promoted; demoted; upgraded; downgraded; transferred; laid off; and terminated. The contractor agrees to and shall post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officers setting forth the provisions of this nondiscrimination clause.
   2. The contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, age, handicap, religion, color, sex, national origin, military status, sexual orientation or gender identity.

(Ord. 153-2012. Passed 9-24-12.)

3. The contractor shall send to each labor union or representative of workers, with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or workers' representative of the contractor's commitments under the equal opportunity clause of the City; and he shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The contractor shall submit in writing to the City his affirmative action plan, and each subcontractor and supplier of equipment or supplies shall submit to the general contractor his affirmative action plan. The responsibility for securing these affirmative action plans falls upon the general contractor and shall be on file at the office of the general contractor. The contractor shall furnish all information and reports required by the City or its representative pursuant to this chapter, and shall permit access to his books, records, and accounts by the contracting agency and by the Executive Secretary for purposes of investigation to ascertain compliance with the program.
5. The contractor shall take such action with respect to any subcontractor as the City may direct as a means of enforcing the provisions of this equal opportunity clause, including penalties and sanctions for noncompliance; provided, however, that in the event the contractor becomes involved in or is threatened with litigation as the result of such direction by the City, the City will enter into such litigation as is necessary to protect the interests of the City and to effectuate the City's equal opportunity program and, in the case of contracts receiving Federal assistance, the contractor or the City may request the United States to enter into such litigation to protect the interests of the United States.
6. The contractor shall file and shall cause his subcontractors, if any, to file compliance reports with the City in the form and to the extent prescribed by the City or its representative. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the contractor and his subcontractors.
7. The contractor shall include the provisions of this equal employment opportunity clause in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.
8. Refusal by the contractor or subcontractor to comply with any portion of this program as herein stated and described will subject the offending party to any or all of the following penalties:
   A. Withholding of all future payments under the involved public contract to the contractor in violation, until it is determined that the contractor or subcontractor is in compliance with the provisions of this contract.
   B. Refusal of all future bids for any public contract with the City or any of its departments or divisions, until such time as the contractor of subcontractor demonstrates that he has established and shall carry out the policies of the program as herein outlined.
   C. Cancellation of the public contract and declaration of forfeiture of the performance bond.
   D. In cases in which there is substantial or material violation or the threat of substantial or material violation of the compliance procedure or as may be provided by contract, appropriate proceedings may be brought to enforce these provisions, including the enjoining within applicable laws of contractors, subcontractors or other organizations, individuals or groups who prevent, directly or indirectly, or seek to prevent, directly or indirectly, compliance with the policy as herein outlined.

(Ord. 179-74. Passed 6-17-74.)

The City of Canton

STATEMENT OF CLAIM FORM

Claim No. ___ for Contractor

1. Name of Contractor: _____

2. Date written claim given:_____.

3. Contractor's representative to contact regarding the claim:

   Name:_____ Title: _____
   Telephone No. _____ (office) FAX No. _____

   E-mail: _____

4. General description of claim:

_____

5. Contract Documents. If the claim is based upon any part or provision in the Contract Documents, including but not limited to pages in the Drawings and/or paragraphs in the Specifications, Owner-Contractor Agreement, General Conditions or Supplementary General Conditions, state upon which parts or provisions the claim is based:

_____

6. Delay claims:

   6.1 Date delay commenced: _____
   6.2 Duration of the delay: _____
   6.3 Apparent cause of the delay and part of critical path affected:

_____

   6.4 Impact of the delay and recommendations for minimizing such impact:

_____

7. Additional compensation. Set forth in detail all additional compensation to which the Contractor believes it is entitled with respect to this claim:

_____

8. Instructions for Completing the Statement of Claim Form ("Instructions"). The Instructions are incorporated in this Form.

9. Truth of Claim. By submitting this claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this State of Claim is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

CONTRACTOR: _____

By: _____

Name and Title:_____

Date: _____

CONTRACTOR'S ACKNOWLEDGMENT

State of _____,

County of _____, ss:

_____ first being sworn, states that after conscientious and thorough review, the statements made in attached Statement of Claim Form are complete and true to the best of his or her knowledge and belief.

_____

Sworn to before me a notary public by _____ on _____ __, 20__.

_____

Notary Public

WHEN COMPLETED, FORWARD A COPY OF THIS NOTICE AND STATEMENT OF CLAIM FORM TO THE OWNER AND ENGINEER.

INSTRUCTIONS FOR COMPLETING THE STATEMENT OF CLAIM FORM

1. Completing the Statement of Claim Form ("Claim Form") is a material term of the Contract. The Claim Form tells the Owner and Design Professional that the Contractor is making a Claim and that they need to act promptly to mitigate the effects of the occurrence giving rise to the Claim. The Claim Form also provides them with information so that they can mitigate such effects. The Contractor acknowledges that constructive knowledge of the conditions giving rise to the Claim through job meetings, correspondence, site observations, etc. is inadequate notice, because knowledge of these conditions does not tell the Owner and Engineer that the Contractor will be making a Claim and most often is incomplete.

2. If the space provided in the Claim Form is insufficient, the Contractor, as necessary to provide complete and detailed information, must attach pages to the Claim Form with the required information.

3. Paragraph 4. The Contractor must state what it wants, *i.e.*, time and/or compensation, and the reason why it is entitled to time and/or compensation.

4. Paragraph 5. The Contractor must identify the exact provisions of the Contract Documents it is relying on in making its Claim. For example, if the Claim is for a change in the scope of the Contractor's Work, the Contractor must identify the specific provisions of the Specifications, and the Plan sheets and details that provide the basis for the scope change.

5. Paragraph 6. This paragraph applies to delay claims, including delays that the Contractor believes result in constructive acceleration. The Contractor must identify the cause of the delay, party or parties responsible, and what the party did or did not do that caused the delay, *i.e.*, specific work activities. The Contractor acknowledges that general statements are not sufficient, and do not provide the Owner with sufficient information to exercise the remedies available to the Owner or to mitigate the effects of the delay.

   For example, if the Contractor claims a slow response time on submittals caused a delay, the Contractor must identify the specific submittals, all relevant dates, and then show on the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Also for example, if the Contractor claims it was delayed by another Contractor, the Contractor must identify the delaying Contractor, specifically what the delaying Contractor did or did not do that caused the delay, and then show the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Further by example, if the Contractor seeks an extension of time for unusually severe weather, the Contractor must submit comparative weather data along with a record of the actual weather at the job site and job site conditions.

6. Paragraph 6.4. Time is of the essence under the Contract Documents. If there is a delay, it is important to know what can be done to minimize the impact of the delay. It therefore is important that the Contractor provide specific recommendations on how to do so.

7. Paragraph 7. The Contractor must provide a specific and detailed breakdown of the additional compensation it seeks to recover. For future compensation, the Contractor shall provide its best estimate of such compensation.

8. Paragraph 8 and Acknowledgment. By submitting this Claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this Claim Form is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the

Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

End of Instructions

CONTRACTOR'S PERSONAL PROPERTY TAX AFFIDAVIT

(O.R.C. § 5719.042)

State of Ohio
County of _____, ss:

_____, being first duly sworn, deposes and says that he is the
(Name)

_____ of _____ with offices located at
(Title) (Contractor)

_____, and as its duly
(Address of Contractor)

authorized representative, states that effective this _____ day of _____, 20___,

_____
(Name of Contractor)

( ) is charged with delinquent personal property taxes on the general list of personal property as set forth below:

County	Amount (includes total amount due, plus penalties and interest thereon)
Stark	$_____

( ) is not charged with delinquent personal property taxes on the general list of personal property in Stark County.

_____

_____
(Affiant)

Sworn to and subscribed before me by the above-named affiant this _____ day of _____, 20__.

_____
(Notary Public)

My commission expires

_____, 20__

CONTRACTOR'S FINAL WAIVER & RELEASE AFFIDAVIT
("AFFIDAVIT")

Project: **Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID)**

In consideration for payment received from the City of Canton (the "City") in the amount requested in Contractor's Final Application for Payment to the City, the receipt of which is hereby acknowledged, the undersigned Contractor hereby waives and releases any rights it has or may have to any and all types of claims relating to the Project, including without limitation claims of payment, Mechanic's Lien, stop notice, equitable lien, labor and material bond, breach of contract or unjust enrichment, or any other claim against the City, for any labor, materials, or equipment the undersigned may have delivered or provided to the Project, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned further certifies that this Affidavit covers claims by all contractors, subcontractors, and suppliers who may have provided any labor, material, or equipment to the Project through the undersigned or at the undersigned's request. The undersigned acknowledges that all such contractors, subcontractors, sub-subcontractors and suppliers have signed an affidavit in the form of this Affidavit releasing any and all claims against the City, except for any Claims the undersigned has made by properly and timely submitting a written statement of its Claim. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

This Affidavit is for the benefit of, and may be relied upon by the City. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, work of improvement, and real property from any and all claims, or liens that are or should have been released in accordance with this Affidavit.

_____
Company Name

_____
Authorized Signature (Company Officer)

_____
Title

_____
Date

State of: _____ County of _____

Subscribed and sworn to before me this _____

day of _____

Notary Public: _____

My Commission Expires: _____

CITY OF CANTON

Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349 (RE-BID) Project

PRE-BID SUBSTITUTION FORM

1. Note. Certain brands of material or apparatus are specified. Each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner for use in the Project) may be requested as provided in the Instructions to Bidders. Substitutions, however, unless approved and issued in an Addendum, will not be considered in determining which bidder to award the contract to.

2. The detailed procedures for submitting substitutions are set forth in Paragraph K of the Instructions to Bidders.

Specification Section	Brand or Name Specified	Proposed Substitution

Appendix A

PROJECT LABOR AGREEMENT
FOR

MIDDLE BRANCH NIMISHILLEN CREEK
STORMWATER CONSTRUCTED WETLAND – GP 1349

CITY OF CANTON
AND

EAST CENTRAL OHIO BUILDING AND CONSTRUCTION
TRADES COUNCIL AFL-CIO
AND

SIGNATORY LOCAL UNIONS

Effective _____

CONTENTS

ARTICLE I
INTENT AND DURATION

Section 1. Intent And Duration. This Project Labor Agreement (the "Agreement" or "PLA") is entered into between the City of Canton (the "Owner"); the East Central Ohio Building and Construction Trades Council, AFL-CIO ("ECOB & CTC" or "Council"); and the Signatory Unions (the "Unions"), and applies exclusively to the construction work within the scope of this Agreement to be performed on the Middle Branch Nimishillen Creek Stormwater Constructed Wetland – GP 1349 (hereinafter "the Project"). The purpose of this Agreement is to promote efficiency and cost-savings in the construction and refurbishment that is a part of the Project and to provide for the peaceful settlement of any and all labor disputes and grievances without strikes or lockouts, thereby promoting the public interest in assuring the timely and economical completion of the Project. This Agreement shall expire and be of no further force or effect upon the completion of the Project.

Upon execution of this Agreement by all parties, all construction, reconstruction, repair, and renovation work covered by this Agreement on the Project shall be contracted exclusively to Contractors, of whatever tier, who agree to execute and be bound by the terms of this Agreement. Prior to performing any work on the Project, all Contractors of whatever tier shall execute the Letter of Assent (attached as Appendix 1) *and* participate in a Pre-Job Conference as required by Article VIII, Section 4 of this Agreement. The Owner (or its permitted designee) shall monitor compliance with this Agreement by all contractors and subcontractors. For purposes of the Agreement, the term "Contractor" shall be deemed to include all construction contractors and subcontractors of whatever tier engaged in any on-site construction, reconstruction, repair, and renovation work required to complete the Project, unless such work is specifically excluded by Article IV, Section 2 of this Agreement. The Owner, the Unions and all signatory Contractors agree to abide by the terms and conditions contained in the Agreement. This Agreement represents the complete understanding of all parties, and no Contractor is or will be required to sign any other agreement with a signatory union as a condition of performing work coming within the scope of this Agreement. No

practice, understanding or agreement between a Contractor and a Union, which conflicts with any provisions in this Agreement, will be binding on any other party unless endorsed in writing by the Owner.

Section 2. Limitation Of Agreement To Project. The Unions agree that this Agreement will be made available to, and will fully apply to, any successful bidder for work on the Project, without regard to whether that successful bidder performs work at other sites on either a union or a non-union basis, and without regard to whether employees of such bidder are or are not members of any union. The Unions further agree that this Agreement applies only to this Project. Nothing in this agreement is intended to, or shall, interfere with, or negate, any existing contractual relationship or collective bargaining agreement between the Union and any contractor or subcontractor that may execute this Agreement.

ARTICLE II
PURPOSE

Section 1. Purpose. The City of Canton's systems and networks of stormwater treatment require immediate upgrading. This Project and this Agreement are necessary to secure and preserve the health and safety of Canton residents and to protect the integrity of the City's water quality and distribution system. The parties to this Agreement understand and acknowledge that the Project is significant to the economic development of the City of Canton.

Stormwater wetlands incorporate wetland plants in a shallow and quasi-permanent pool of water which treats incoming stormwater and removes dangerous pollutants. Consistent with this need, and the City Council having declared this Project to be an emergency, the City has duly approved and directed the construction of a stormwater wetland at the City's Middle Branch Nimishillen Creek location. The Project will include the construction of the stormwater wetland and associated landscaping, storm sewer, and appurtenances.

The Project has an estimated cost of $160,162.00 and is planned to be let out for

bid on or around January 1, 2023.

Section 2. Time Is Of The Essence. The parties to this Agreement understand and agree that time is of the essence for this Project. The parties understand and agree that timely completion of the Project will require the use of substantial numbers of employees from construction and supporting crafts possessing skills and qualifications that are essential to the Project. The Unions pledge that they have members who are competent, skilled, and qualified to perform the required construction work. The parties also understand that on-budget completion of the Project is most critical; it is therefore essential that construction work on the Project be done in an efficient, economical manner with optimum productivity and with no delays. In recognition of those special needs of the Project, the Unions signatory hereto and their members agree not to initiate, authorize, sanction, participate in or condone, or permit their members to engage in any strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project or other operations of the City of Canton. Contractors agree not to engage in any lockouts.

ARTICLE III
BENEFITS OF THE AGREEMENT

Section 1. Benefits Of The Agreement. This Agreement is intended to foster the achievement of a timely and on-budget completion of the Project by, among other things:

(a) reducing and/or eliminating the tension and potential disagreements that might otherwise exist between Union and non-union workers on the Project;

(b) avoiding the costly delays of strikes, sympathy strikes, jurisdictional strikes, slowdowns, walkouts, picketing, handbilling and any other disruptions or interference with work, and promoting labor harmony and peace for the

duration of the Project;

(c) standardizing terms and conditions governing the employment of labor on the Project;

(d) permitting flexibility in work scheduling and shift hours and times;

(e) achieving negotiated adjustments as to work rules and staffing requirements from those which otherwise might obtain;

(f) providing comprehensive and standardized mechanisms for the settlement of work disputes;

(g) ensuring a reliable source of skilled and experienced labor; and

(h) furthering public policy objectives, to the extent lawful, as to improved employment opportunities for minorities, women and the economically disadvantaged in the construction industry. Mindful of the economic condition and unemployment rate in Stark County, the Owner anticipates and expects that all construction workers and employees on this Project will be residents of Stark County. In view of the very technical and specialized work that is inherent in the construction industry, all parties acknowledge that this expectation by the Owner is a goal, not a mandate. To this end, all Contractors working under this Agreement pledge that they will make a good-faith effort to reach this goal expressed by the Owner.

ARTICLE IV
SCOPE OF AGREEMENT

Section 1. The Work. This Agreement is specifically defined and limited to onsite construction, reconstruction, repair, and renovation work required to complete the Project.

Section 2. Exclusions From Scope. Items specifically excluded from the scope of this Agreement, even if performed in connection with the Project, include the following:

(a) Work of non-manual employees, including but not limited to,

superintendents, supervisors, staff engineers, inspectors, quality control and quality assurance personnel, timekeepers, mail carriers, clerks, office workers, including messengers, guards, safety personnel, emergency medical and first aid technicians, and other professional, engineering, administrative, supervisory and management employees.

(b) Equipment and machinery owned or controlled and operated by the Owner.

(c) All off-site manufacture, fabrication or handling of materials, equipment or machinery (except at dedicated lay-down or storage areas and except as provided in Article IV, Section 9), and all deliveries of any type to and from the Project site (except on-site pouring of concrete).

(d) All employees of the Owner, the Construction Supervisor, design team or any environmental, engineering or other consultant when such employees do not perform labor coming within the scope of this Agreement.

(e) Any work performed on or near or leading to or onto the site of work on the Project and undertaken by state, county, city or other governmental bodies, or their contractors; or by public utilities or their contractors.

(f) Off-site maintenance of leased equipment and on-site supervision of all such maintenance work.

(g) Work by employees of a manufacturer or vendor necessary to maintain such manufacturer's or vendor's warranty or guarantee, or work performed by supervisors or technicians employed by the manufacturer or vendor to oversee the testing of equipment once installed to insure that the equipment is fully operational.

(h) Laboratory work for specialty testing or inspections not ordinarily done by the signatory local unions.

(i) All work done by employees of any State agency, authority or entity or employees of any municipality or other public employer.

(j) This Agreement does not apply to work covered under a collective bargaining agreement between a contractor and a local union in the

outside line branch of the International Brotherhood of Electrical Workers, including, but not limited to, construction of electrical transmission and distribution lines (including above-ground and below-ground lines), catenary and trolley facilities, switch yards, and substations.

The Unions agree that there shall be no interference with or disruption of work, of those contractors, employers, and employees exempted from coverage of this Agreement by subparagraph (a) through (j) above.

Section 3. Contract Award and Consent to Agreement.

(a) The Owner, and/or Contractors, as appropriate, have the absolute right to award contracts or subcontracts on the Project notwithstanding the existence or nonexistence of any agreements between such Contractor and any Union party, *provided that* any and all Contractors are willing, ready and able to execute and comply with this Agreement should such Contractor be awarded work covered by this Agreement.

(b) All Contractors, as a condition to awarding any contract or subcontract for any work covered by this Agreement, shall obtain and deliver to the Council a Letter of Assent (in the form provided by Appendix 1) executed by the awarded Contractor.

(c) Where any Contractor violates the above Section 3(b), such Contractor and subcontractor shall be jointly and severally liable for damages incurred by any affected Union(s) from such failure of the Contractor to properly bind a subcontractor to the Agreement by Letter of Assent, determined pursuant to the Grievance Procedure set forth in Article VII of this Agreement.

(d) Notwithstanding the foregoing Section 3(c), compliance with this Agreement is an absolute condition, as determined by the Owner, to performing any work on the Project unless such work is specifically excluded by Article IV, Section 2. Any Contractor performing work on the Project shall be deemed to have accepted this Agreement by such

performance and agreed to be bound by all of its terms, without exception.

Section 4. Stand-Alone Agreement. This Agreement is a stand-alone Agreement. While this Agreement expressly does not incorporate any local area collective bargaining agreements, such local area collective bargaining agreements may be referenced for the limited purposes as hereinafter set forth in this Agreement. However, to the extent, if any, that any provisions of this Agreement conflict with any provision of a local area collective bargaining agreement, the provisions of this Agreement shall control, except for all work performed under the NTL Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, all instrument calibration work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians, and the National Agreement of the International Union of Elevator Constructors, with the exception of Articles VII, VIII and X of this Agreement, which shall apply to such work.

Section 5. Craft Jurisdiction. This Agreement shall recognize the traditional craft jurisdictions of the signatory unions. Any and all jurisdictional disputes shall be settled in accordance with Article VIII below. While this Agreement is a stand-alone Agreement, the Agreement will utilize the local area collective bargaining agreements of signatory locals, not state-wide agreements or other special project agreements, as a reference to define the signatory local unions' craft jurisdiction.

Section 6. Subcontracting. The Owner agrees that neither it nor any of its contractors or subcontractors will subcontract any work covered by this Agreement to be done on the Project except to a person, firm or corporation who is or agrees to become party to this Agreement by the procedure set forth in Article IV, Section 3. Contractors who are signatory to local are collective bargaining agreements shall be bound by the terms of their respective local collective bargaining agreements on subcontracting to the extent such terms are consistent with Article IV, Section 2 of this

Agreement. Disputes concerning compliance with such local subcontracting provisions for this Project shall be subject to all of the dispute resolution provisions of this Agreement.

Section 7. Liability. It is understood that the liability of the Contractor and the liability of the separate Unions under this Agreement shall be several and not joint. The Unions agree that this Agreement does not have the effect of creating any joint employer status between or among the Owner, Construction Supervisor and/or any Contractor, and neither the Owner nor Construction Supervisor shall assume any liabilities of the Contractors.

Section 8. Abatement of Agreement. As areas of covered work on the Project are accepted by the Owner, this Agreement shall have no further force or effect on such areas except where the Contractor is directed by the Owner to engage in repairs or punch list modifications.

Section 9. Miscellaneous. Notwithstanding any other provision of this Agreement, this Agreement applies and is limited to the recognized and accepted historical definition of demolition and new construction work under the direction of and performed by the contractor(s), of whatever tier, who have contracts awarded for such work on the project. Such work shall include site preparation work and dedicated off-site work except for the contractors and subcontractors specifically excluded in this Article II. Any off-site prefabrication of any building materials, systems and/or components traditionally performed on site shall be performed by the appropriate craft signatory to this Agreement and approved by the owner.

ARTICLE V
LABOR/MANAGEMENT COOPERATION
JOINT ADMINISTRATIVE COMMITTEE

Section 1. The parties to this Agreement shall establish a Project Joint

Administrative Committee ("Committee"). This Committee will be a two-person committee comprised of one member each appointed by the Owner (or its designee) and the Unions, with an alternate appointee Union member available to replace the regular appointee when a problem or grievance concerns the regular appointee's Union. Each member of the Committee shall designate an alternate who shall serve in the absence of the member for any purpose contemplated by this Agreement.

Section 2. The Committee shall meet at least quarterly, or more often if special circumstances warrant, to discuss the administration of the Agreement, the progress of the Project, labor/management problems that may arise, and any other relevant matters. Any need for interpretation which might arise from the application of the terms and conditions of the Agreement shall be referred directly to the Committee for resolution.

ARTICLE VI
UNION RECOGNITION AND EMPLOYMENT

Section 1. Pre-Hire Recognition. Each Contractor and subcontractor recognizes the Unions as the sole and exclusive bargaining representatives of all craft and trade employees within their respective jurisdictions working on the Project under the Agreement.

Section 2. Contractor's Right of Selection. Each Contractor shall have the right to determine the competency of all employees, the number of employees required and shall have the sole responsibility for selecting employees to be laid off. To the extent any training or vendor education is required to fill any position, said training shall be undertaken at no cost or expense to Owner.

Section 3. Union Referral. For local Unions having a job referral system, each Contractor agrees to comply with such system, and the referral system shall be used exclusively by such Contractor, except as modified by this Article. Such job referral

system will be operated in a non-discriminatory manner and in full compliance with Federal, state, and local laws and regulations requiring equal employment opportunities and nondiscrimination, and referrals shall not be affected in any way by the rules, regulations, bylaws, constitutional provisions or any other aspects or obligations of union membership, policies or requirements. The Union shall indemnify and hold each Contractor harmless with respect to any claim arising out of how the Union operates and administers its referral system. All hiring procedures, including related practices affecting apprenticeship and training, will be operated so as to facilitate the ability of the contractors to meet any and all equal employment opportunity/affirmative action obligations. The Contractor may reject any referral and request another, different referral; provided, however, the Contractor shall furnish, upon request from the Union, a written explanation for the rejection.

Section 4. Lack of Job Referral System. In the event that a signatory Local Union does not have a job referral system as set forth in Section 3 above, the Contractor shall give the Union a forty-eight (48) hour opportunity to refer applicants. The Contractor shall notify the Union of employees hired from any source other than referral by the Union.

Section 5. Unavailability of Union Referrals. In the event that local Unions are unable to fill any requisitions for qualified employees within forty-eight hours (48) after such requisition is made by the Contractor (Saturdays, Sundays, and Holidays excepted), the Contractor may employ applicants from any other available source. The Contractor shall inform the Union of the name, address and telephone number of any applicants hired from other sources and refer the applicant for the Local Union for dispatch to the Project.

Section 6. Union Best Efforts. The Local Unions will exert their utmost efforts to recruit sufficient numbers of skilled craft workers to fulfill the manpower requirements of each Contractor, including calls to local unions in other geographic areas when its referral lists have been exhausted. The parties to this Agreement support the

development of increased numbers of skilled construction workers from the residents of the area of the Project. Toward that end, the Unions agree to encourage the referral and utilization, to the extent permitted by law and the hiring hall procedures, of qualified residents as journeymen, apprentices and trainees on the Project.

ARTICLE VII
GRIEVANCE ARBITRATION PROCEDURE

Section 1. This Agreement is intended to provide close cooperation between management and labor. Each of the Unions will assign a representative to this Project for the purpose of completing the construction of the Project economically, efficiently, continuously, and without interruptions, delays, or work stoppages.

Section 2. The Contractors, Unions, and the employees, collectively and individually, realize the importance to all parties to maintain continuous and uninterrupted performance of the work of the Project, and agree to resolve disputes in accordance with the grievance-arbitration provisions set forth in this Article.

Section 3. Any question or dispute arising out of and during the term of this Agreement (other than trade jurisdictional disputes) shall be considered a grievance and subject to resolution under the following procedures:

> **Step 1.** (a) When any employee subject to the provisions of this Agreement feels he or she is aggrieved by a violation of this Agreement, he or she, through his or her local union business representative or job steward, shall, within five (5) working days after the occurrence of the violation, give notice to the work-site representative of the involved Contractor stating the provision(s) alleged to have been violated. The business representative of the local union or the job steward and the work-site representative of the involved Contractor

shall meet and endeavor to adjust the matter within three (3) working days after timely notice has been given. The representative of the Contractor shall keep the meeting minutes and shall respond to the Union representative in writing at the conclusion of the meeting but not later than twenty-four (24) hours thereafter. If they fail to resolve the matter within the prescribed period, the Local Union may, within forty-eight (48) hours thereafter, pursue Step 2 of the Grievance Procedure, provided the grievance is reduced to writing, setting forth the relevant information concerning the alleged grievance, including a short description hereof, the date on which the grievance occurred, and the provisions of the Agreement alleged to have been violated.

(b) Should the Local Union(s) or the Project Contractor or any Contractor have a dispute with the other party and if, after conferring, a settlement is not reached within three (3) working days, the dispute may be reduced to writing and proceed to Step 2 in the same manner as outlined herein for the adjustment of an employee complaint.

Step 2. The International Union Representative and the involved Contractor shall meet within seven (7) working days of the referral of a dispute to this second step to arrive at a satisfactory settlement thereof. Meeting minutes shall be kept by the Contractor. If the parties fail to reach an agreement, the dispute may be appealed by the Union, in writing, in accordance with the provisions of Step 3.

Step 3. (a) If the grievance has been submitted but not adjusted under Step 2, either party may request in writing, within seven (7) calendar days thereafter, that the grievance be submitted to an Arbitrator mutually agreed upon by them.

The Contractor and the involved Union shall attempt mutually to select an arbitrator, but if they are unable to do so, they shall request the Federal Mediation and Conciliation Services (FMCS) to provide them with a list of arbitrators from which the Arbitrator shall be selected. The rules of FMCS shall govern the conduct of the arbitration hearing. The decision of the Arbitrator shall be final and binding on all parties. The fee and expenses of such Arbitration shall be borne equally be the Contractor and the involved Local Union(s).

Section 4. Failure of the grieving party to adhere to the time limits established herein shall render the grievance null and void. Failure of the Contractor to adhere to the time limits established herein shall result in the grievance being sustained. The time limits established herein may be extended only by written consent of the parties involved at the particular step where the extension is agreed upon. The Arbitrator shall have the authority to make decisions only on issues presented to him or her, and he or she shall not have authority to change, amend, add to or detract from any of the provisions of this Agreement.

Section 5. The Owner shall be notified of all actions at Steps 2 and 3 and shall, upon their request, be permitted to participate in all proceedings at these steps.

ARTICLE VIII
JURISDICTIONAL DISPUTES

Section 1. The assignment of work will be the responsibility of the Contractor performing the work involved and such work assignments will be in accordance with decisions issued under the Plan for the Settlement of Jurisdictional Disputes in the Construction Industry (the "Plan"), or any successor Plan, adopted by the National Building and Construction Trades Department.

Section 2. All jurisdictional disputes on this Project, between or among Building and Construction Trades Unions and employers, parties to this Agreement, shall be settled and adjusted according to the present Plan established by the Building and Construction Trades Department or any other plan or method of procedure that may be adopted in the future by the Building and Construction Trades Department. Decisions rendered shall be final, binding and conclusive on the Contractors and Unions parties to this Agreement.

Section 3. All jurisdictional disputes shall be resolved without the occurrence of any strike, work stoppage, or slow-down of any nature, and the Contractor's assignment shall be adhered to until the dispute is resolved. Individuals violating this section shall be subject to immediate discharge.

Section 4. Each Contractor will conduct a Pre-Job Conference with the Council prior to commencing work which shall require completion of a Pre-Job Conference Verification Form (attached as Appendix 2). This Pre-Job Conference requirement may be waived only by the Council, in writing, upon request of a Contractor. The Owner will be advised in advance of all such conferences and may participate if they wish.

ARTICLE IX
MANAGEMENT'S RIGHTS

Section 1. Exclusive Owner - Workforce. Except as otherwise provided in this Agreement, the Owner (or its designee) and the Contractors retain the authority to manage their operations and workforces.

Section 2. Materials, Design, Machinery, Equipment. There shall be no limitation or restriction by a signatory Union upon a Contractor's choice of materials or design, nor, regardless of source or location, upon the full use and utilization of equipment, machinery packaging, pre-cast, pre-fabricated, pre-finish, or pre-assembled materials, tools or other labor saving devices. The on-site installation or

application of all items shall be performed by the craft having jurisdiction of such work; provided, however, that installation of specialty items may be performed by employees employed under this Agreement who may be directed by other personnel in a supervisory role, in circumstances requiring special knowledge of the particular items.

Section 3. New Technology, Equipment. The use of new technology, equipment, machinery, tools and/or labor saving devices and methods of performing work may be initiated by any Contractor from time to time during the Project. The Union agrees that it will not in any way restrict the implementation of such new devices or work methods.

Section 4. Disputes. If there is any disagreement between any Contractor and the Union concerning the manner or implementation of such device or method of work, the implementation shall proceed as directed by the Contractor, and the Union shall have the right to grieve and/or arbitrate the dispute as set forth in Article VII of this Agreement.

ARTICLE X
WORK STOPPAGES

Section 1. No Strikes or Work Disruptions. There shall be no strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project. The applicable local union shall not sanction, aid or abet, encourage or continue any work stoppage, strike, picketing or other disruptive activity which violates this Article and shall undertake all reasonable means to prevent or to terminate any such activity. No employee shall engage in activity which violates this Article. Any employee who participates in or encourages any activity which violates this Article shall be subject to disciplinary action, including discharge, and if justifiably discharged for the above reasons, shall not be eligible for

rehire on the same project for a period of not less than ninety (90) days. Further, if the Local Union is unable to provide qualified replacements for those employees who are in violation of this Article by the beginning of the next shift, the Employer is free to hire from any source.

Section 2. Union Responsibilities. The Local Union shall not be liable for acts of employees for which it has no responsibility. The principal officers of the Local Union will immediately instruct, order and use their best efforts to cause the members of the Local Union they represent to cease any violations of this Article. If it complies with this obligation, the Local Union shall not be responsible for unauthorized acts of employees it represents.

ARTICLE XI
WAGES AND BENEFITS

Section 1. Wages. All employees covered by this Agreement shall be classified in accordance with work performed and paid 100% of the wages and 100% of the fringe benefits as established in the respective Union's Local Area Collective Bargaining Agreement and any subsequent modifications thereto. The Contractor, upon request, shall provide the Unions and Owner with substantiation that wages and benefits are being paid on the Project. The Unions shall provide the Owner, and any Contractor or subcontractor that is party to this Agreement, with wage, fringe benefit and dues reporting forms.

Section 2. Payment of Benefits/Contributions. Each Contractor will also pay all required contributions in the amounts required by Section 1 of this Article to the established employee benefit funds that accrue to the direct benefit of the employees (such as pension and annuity, health and welfare, vacation, apprenticeship, training funds). With respect to contributions required in this Section to Employer-Union jointly trusted funds, the Contractor adopts and agrees to be bound by the written terms of the legally established trust agreement specifying the detailed basis on which

payments are to be made into, and benefits paid out of, such Trust Funds. The Contractor authorizes the parties to such Trust Funds to appoint Trustees and successor Trustees to administer the Trust Funds and hereby ratifies and accepts the Trustees so appointed as if made by Contractor.

Section 3. Non-Affiliated Labor Organizations. The Contractor shall deduct from each employee's wages all uniform dues and working assessments the employee has voluntarily authorized in writing as set forth in the Employee's Local Collective Bargaining Agreement. If a labor organization is not affiliated with the Council, and supplies its members or referrals for work on the Project, such labor organization shall pay to the Council the dues and assessments it would owe the Council if affiliated, for all periods during which the labor organization has members or referrals working on the Project. Any disputes under this paragraph shall be resolved exclusively between the labor organization and the Council by using the grievance procedure appearing in Article VII, as provided herein. All grievances shall be reduced to writing within thirty (30) days of the date on which the aggrieved party discovered the dispute. The grievance shall be initiated at Article VII, Section 3, Step 3.

ARTICLE XII
LOCAL UNION NEGOTIATIONS DURING THE PENDENCY OF THE AGREEMENT

Section 1. All parties to this Agreement understand and acknowledge that some crafts who will be working on the Project are covered by local collective bargaining agreements that will expire prior to the projected completion of the Project. All parties understand and agree that irrespective of whether such local collective bargaining agreement negotiations are successful or unsuccessful, there shall be no strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project by any Union involved in such local

negotiations, or by any of its members, nor shall there be any lockout by a Contractor on the Project affecting such union or its members during the course of such negotiations. Irrespective of the status of any such local collective bargaining agreement negotiations, the affected Union and all of its members will observe and fully comply with the provisions of this Agreement. Should any Local Union fail or refuse to provide and/or refer qualified employees for work on the Project during an economic strike, any affected Contractor shall be permitted to utilize the procedures appearing in Article VI, Section 5 of this Agreement.

Section 2. Wage/Benefit Increases. Should a craft covered by this Agreement negotiate an increase in wages or an increase in benefits with any Contractor to become effective during the term of the Project, those wage and/or benefit increases shall be paid by the affected Contractor, as of the effective date of those increases, to those employees in that craft performing work covered by this Agreement.

ARTICLE XIII
HOURS OF WORK, OVERTIME, SHIFTS AND HOLIDAY

Section 1. Work Day and Work Week. Except as provided in Section 4, the first shift shall consist of eight (8) or ten (10) hours per day between the hours of 6:00 a.m. and 5:30 p.m., plus one-half (1/2) hour unpaid for lunch, approximately mid-way through the shift. Forty (40) hours per week shall constitute a regular week's work, whether consisting of five (5) eight (8) eight hours days, or four (4) ten (10) hour days. The work week will start on Monday and conclude on Sunday. A uniform starting time will be established for all crafts on each project or segment of the work. Nothing herein shall be construed as guaranteeing any employee eight (8) or ten (10) hours per day or forty (40) hours per week. The Union(s) shall be informed of the work starting time set by the contractor at the pre job conference which may be changed thereafter upon three (3) days' notice to the Union(s) and the employees. A second shift, if used, shall consist of eight hours between 3:00 p.m. and 1:00 a.m.; a third shift, if used, shall begin between 10:00 p.m. and 1:00 a.m. For purposes of Section 3, the third shift shall be

considered as part of the prior day's work.

Section 2. Starting Times. Employees shall be at their place of work at the starting time and shall remain at their place of work (as designated by the Contractor) performing their assigned functions until quitting time, which is defined as the scheduled end of the shift. The parties reaffirm their policy of a fair day's work for a fair day's wage. There shall be no pay for time not worked unless the employee is otherwise engaged at the direction of the Contractor.

Section 3. Overtime. Overtime shall be defined as all hours worked in excess of forty (40) hours in a work week or, for 8 hour shifts, in excess of eight (8) hours per day; or for 10 (ten) hour shifts for work in excess of 10 hours per day; such work and work performed on Saturdays shall be paid at one and one-half times the straight time rate of pay. However, in scheduled four (4) day/ten hour shift work weeks, Friday may be scheduled as a "makeup" day at straight time to make up for a day lost (Monday through Thursday) due to inclement weather. In addition, if a "make-up" day is scheduled, all employees directed to work on such day will be guaranteed a minimum of four (4) hours work or pay. In any week in which employees on the Project are scheduled on four/ten hour shifts, an employee whose first day of work on the Project begins on Wednesday or later day of the schedule shall be paid, during the first week of his employment only, time-and-one-half for all hours worked in excess of eight in a day or each day he works during said week. Work on Sundays and holidays shall be at double time. There shall be no restriction on any contractor's scheduling of overtime or the non-discriminatory designation of employees who will work. The contractor shall have the right to schedule work so as to minimize overtime. There shall be no pyramiding of overtime pay under any circumstances.

Section 4. Shifts.

(a) Shift work may be performed at the option of the Contractor(s) upon three (3) days' prior notice to the Union and shall continue for a period of not less than five (5) working days. Saturdays and Sundays, if worked, may be used

for establishing the five (5) day minimum work shift. If two shifts are worked, each shall consist of eight (8) hours of continuous work exclusive of a one--half (½) hour non-paid lunch period. Any third shift shall consist of seven (7) hours of continuous work exclusive of one-half (½) hour non-paid lunch period for eight (8) hours pay. A premium of $.25 per hour shall be paid for work on the second shift and $.50 per hour for work on the third shift.

(b) The Contractor may establish a work week of four (4) consecutive ten (10) hour work days (exclusive of one-half (½) hour unpaid lunch, approximately midway through the shift) between Monday through Thursday.

Section 5. Minimum Pay. An employee who reports for work at the regular starting time and for whom no work is provided shall receive pay equivalent to two (2) hours at the applicable hourly rate, provided the employee at the employer's discretion remains available for work. Any employee who reports for work and for whom work is provided shall be paid for actual time worked but not less than two (2) hours. It will not be a violation of this agreement when the employer considers it necessary to shut down to avoid the possible loss of human life, because of an emergency situation that could endanger the life and safety of an employee. In such cases, employees will be compensated only for the actual time worked. In the case of a situation described above where the employer requests employees to remain available for work, the employees will be compensation for such time. If a project is shut down because of weather, employees, who report for work, shall be paid actual time worked but not less than two (2) hours. Procedures for prior notification of work cancellation shall be determined at the pre-job conference. The provisions of this section are not applicable where the employee voluntarily quits or lays off.

Section 6. Holidays. Holidays shall be New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Day after Thanksgiving Day, and Christmas Day. A holiday falling on Saturday shall be observed on the preceding Friday. A holiday falling on Sunday shall be observed on the following Monday.

Section 7. Meal Period. The Contractor will schedule a meal period of not more than one-half hour duration at the work location at approximately the mid-point of the scheduled work shift (4 hours in a five day work week, 5 hours in a four-day work week), consistent with Section 1; provided, however, that the Contractor may, for efficiency of the operation, establish a schedule which coordinates the meal periods of two or more crafts. If an employee is required to work through his meal period, he shall be compensated for the time worked at the applicable overtime rate and the employee shall, when work permits, eat his lunch "on the fly".

Section 8. No Organized Work Breaks. There will be one (1) break during the first four (4) hours of a shift which shall be taken at the employee's work station. Individual nonalcoholic beverage containers will be permitted at the employee's work station.

Section 9. Helmets to Hardhats.

(a) The Employers and the Unions recognize a desire to facilitate the entry into the building and construction trades of veterans who are interested in careers in the building and construction industry. The Employers and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter "Center") and the Center's "Helmets to Hardhats" program to serve as a resource for preliminary orientation, assessment of construction aptitude, referral to apprenticeship programs or hiring halls, counseling and mentoring, support network, employment opportunities and other needs as identified by the parties.

(b) The Unions and Employers agree to coordinate with the Center to create and maintain an integrated database of veterans interested in working on this Project and of apprenticeship and employment opportunities for this Project. To the extent permitted by law, the Unions will give credit to such veterans for bona fide, provable past experience.

ARTICLE XIV
APPRENTICES

Section 1. Need For. The parties recognize the need to maintain continuing support of programs designed to develop adequate numbers of competent workers in the construction industry. The Contractor(s) will, accordingly, employ apprentices in their respective crafts to perform work on the Project in accordance with Section 2 below.

Section 2. Ratios. The Union agrees to cooperate with the Contractor in furnishing qualified apprentices as requested and if available. Apprentices shall perform the work of their craft in accordance with the ratios and terms in their local area collective bargaining agreements. To the extent requested by Owner, the Contractor(s) may use the maximum number of apprentices permitted by local collective bargaining agreements.

ARTICLE XV
DRUG AND ALCOHOL POLICY

Section 1. Drug and Alcohol Policy. All parties understand and agree that a drug and alcohol policy, approved by the Council, will be in force for all work performed under the Agreement. The drug and alcohol policy will prohibit the use, sale, transfer, purchase and/or possession of a controlled substance, alcohol and/or firearms while on the Project's premises and will require testing of employees. The drug and alcohol policy, attached hereto as Appendix 3, is incorporated into and made part of this Agreement and is implemented for all Contractors and employees working on the Project.

ARTICLE XVI
NON-DISCRIMINATION

Section 1. Policy. It is the continuing policy of the Owner, the Contractors and the Unions that the provisions of this Agreement shall be applied without discrimination because of age, race, sex, color, religion, creed, national origin, sexual orientation or any other basis prohibited by applicable law.

ARTICLE XVII
SOLE AND COMPLETE AGREEMENT

Section 1. The parties agree that this Agreement constitutes the sole and complete agreement between them governing the rates of pay and working conditions of the construction employees working on the Project. This Agreement settles all demands and issues on the matters subject to collective bargaining and shall not be modified or supplemented in any way except by written agreement executed by the Owner and all parties.

ARTICLE XVIII
SEPARABILITY AND SAVINGS CLAUSE

Section 1. Intent of Parties. If any article or section of this Agreement shall be held invalid by law or by a tribunal of competent jurisdiction, or if compliance with or enforcement of any article should be restrained pending a final determination as to its validity, the remainder of this Agreement shall not be affected and shall remain in full force and effect. In the event that any article or section is held invalid, the parties hereto shall, upon the request of the Unions, enter into collective bargaining negotiations for the purpose of arriving at a mutually satisfactory replacement for such article during the period of invalidity or restraint. If the Owner and the Council cannot agree on a mutually satisfactory replacement, either party shall be permitted to submit its demand to formal interest arbitration under the Rules of Federal Mediation and Conciliation Service.

Section 2. Force of Agreement. The parties recognize the right of the Owner to withdraw, at its absolute discretion, the utilization of this Agreement as part of any bid specification should a court of competent jurisdiction issue any order which could result, temporarily or permanently, in a delay of the bidding, awarding, and/or construction work on the Project. Notwithstanding such an action by the Owner, or such court order, the parties agree that the Agreement shall remain in full force and effect on the Project, to the maximum extent legally possible. It is hereby agreed that this Agreement covers all of the signatory local unions listed below.

Section 3. Delegation. The Owner, in its sole and absolute discretion has the right to delegate its duties hereunder to a representative and/or designee who may be either an employee of Owner or a third party with whom Owner has contracted for contractor services.

OWNER
CITY OF CANTON

Director of Public Service

EAST CENTRAL OHIO BUILDING & CONSTRUCTION TRADES COUNCIL, AFL-CIO

PRESIDENT

APPROVED AS TO FORM

CITY OF CANTON
DIRECTOR OF LAW

BOILERMAKERS LOCAL NO. 744

By:

Name: MARTIN D. MAHON

Title: BUSINESS MANAGER

Date: 10 · 19 · 2022

BRICKLAYERS LOCAL 6

By:

Name: Justin M. Gartrell

Title: Field Rep.

Date: 10-11-22

ELECTRICIANS LOCAL NO. 540

By:

Name: AARON M. BROWN

Title: BUSINESS MANAGER

Date: 10/5/2022

ELEVATOR CONSTRUCTORS LOCAL NO. 45

By: _____

Name: Ron Johnston

Title: BA

Date: 10/5/2022

GENERAL TRUCK DRIVERS & HELPERS UNION LOCAL NO. 92

By: _____

Name: Warren Brustosk'

Title: B.A.

Date: 10-11-22

GLAZIERS LOCAL NO. 1162

By: _____

Name: Scott Harter

Title: B.A.

Date: 10-5-22

HEAT & FROST INSULATORS AND ALLIED WORKERS LOCAL NO. 84

By: _____

Name: DAMON WROBEL

Title: BUSINESS MANAGER

Date: 10/05/22

IRONWORKERS LOCAL NO. 550

By: _____

Name: William V. Sherer II

Title: BM

Date: 10-5-22

LABORERS LOCAL NO. 1015

By: _____

Name: Jake Croston Jr

Title: Business Manager

Date: 10/20/22

OPERATIVE PLASTERERS AND CEMENT MASONS LOCAL NO. 109

By: Mark Anderson

Name: Mark Anderson

Title: B.A. President

Date: 10-5-2022

PAINTERS LOCAL NO. 841

By: Scott Harter

Name: Scott Harter

Title: B.A.

Date: 10-5-22

PLUMBERS, PIPEFITTERS AND REFRIGERATION LOCAL NO. 94

By: Brett McGlothlin

Name:

Title: Business Manager

Date: OCT 04 2022

ROOFERS LOCAL UNION NO. 88

By: James R. Mayers

Name: James R. Mayers

Title: Business Manager

Date: 10/18/2022

SHEET METAL WORKERS LOCAL NO. 33

By: _____

Name: TERRY DURIEUX

Title: BUSINESS AGENT

Date: 10/4/22

SPRINKLER FITTERS LOCAL NO. 669

By: _____

Name: Sean McKelvey

Title: B.A.

Date: 10.10.22

APPENDIX 1

LETTER OF ASSENT TO THE PROJECT LABOR AGREEMENT

FOR THE

MIDDLE BRANCH NIMISHILLEN CREEK STORMWATER CONSTRUCTED WETLAND – GP 1349

Pursuant to Article I, Section 1 and Article IV, Section 3 of the Project Labor Agreement (the "Agreement") for the above-referenced Project, the undersigned party hereby agrees that it will comply with and be bound by all of the terms and conditions of the Agreement and agrees to all approved amendments or revisions thereto.

By executing this Letter of Assent, the undersigned also reaffirms, acknowledges, and agrees that it must participate in a Pre-Job Conference with the East Central Ohio Building & Construction Trades Council prior to performing any work on the Project. A Pre-Job Conference shall be valid only where the undersigned Contractor completes the Pre-Job Conference Verification Form provided in Appendix 2.

This Letter of Assent shall ONLY apply to the above-referenced Project and shall remain in effect for the duration of the above-referenced Project, after which this Letter of Assent will automatically terminate without further notice.

For the Contractor (or Subcontractor of whatever tier)

Name of Contractor/Subcontractor: _____

By its Authorized Representative: _____

Print Name: _____

Title: _____

Signature: _____

Date: _____

Phone: _____

Email: _____

APPENDIX 2

Pre-Job Conference Verification Form

Date of Conference _____

Location of Conference _____

Project Name _____

Contractor Name _____

Address of Contractor _____

_____

Point of Contact _____

Phone _____

Email _____

Scope of Work _____

_____

_____

Contractor has provided Council with a list of all proposed trade assignments by craft including scope of work for each assignment.

Y___ N___

Contractor has provided Council with a list of all subcontractors that will perform work on the Project.

Y___ N___

Contractor affirms that it is responsible for subcontracting any work on the Project in strict compliance with Article IV, Section 3 of the Project Labor Agreement.

Y___ N___

The Council has in its possession a Letter of Assent signed by Contractor.

Y___ N___

ACKNOWLEDGED:

BY COUNCIL: (signature)_____(title)_____

BY CONTRACTOR: (signature)_____(title)_____

APPENDIX 3

EMPLOYEE DRUG AND ALCOHOL TESTING POLICY

SPECIFICATIONS

The Owner is committed to providing a safe workplace for the workers assigned the Project, promoting high standards of employment health, and fostering productivity that satisfies its quality expectations. Consistent with the intent and spirit of this commitment, the Owner and ECOB & CTC have established a substance abuse testing specification for the Project with the goal of maintaining a work environment that is free from the effects of the use of illegal drugs and alcohol. The Owner will implement the terms of this policy.

This specification is not intended as a substitute for the Contractors' complete written substance abuse policy. Normally, such policies include other important features, including, but not limited to, an employee education and awareness Program, a supervisor training program and an employee assistance program.

The policy for this Project requires that any construction employee entering the project site will comply with the substance abuse testing requirements as outlined in this section. The Owner reserves the right to amend this specification upon written notice to the Contractor and the Unions on the Project. The parties to this agreement shall recognize the Drug Free Work Site Program as implemented through participating Unions and/or Contractors as administered by the contractor, or for contractors who are not signatory to agreements with signatory unions belonging to ECOB & CTC, and their core employees, an equivalent program that meets the specifications, contractual requirements, and testing requirements as set forth in Appendix 3.

CONTRACTUAL REQUIREMENTS

All Contractors must have and enforce a written Substance Abuse Program incorporating the testing requirements, term, and conditions set forth in this specification. This specification is applicable to all employees, current and prospective, in order to be eligible to perform work at the Project. The Contractors must comply with the specification. Supplies, vendors, and visitors are subject to confirmation of their abstinence from the possession or use of substances indicated in this specification. A copy of each contractor's substance abuse program must be

submitted to the Owner for approval prior to commencement of any work on the Project site.

The substance abuse program must apply to all employees working on the Project and subcontractors' of any of tier working on the Project site. This includes workers, new hires, replacement workers, and supervisory personnel. No employee or prospective employee of a Contractor shall be permitted to work on the Project site unless such employee has submitted to testing by this specification and unless the results of such testing are negative as hereinafter defined. The Contractor must provide the Owner with a Monthly Summary Report of the Substance Abuse Program compliance.

All Contractors must train their respective employees in methods that will allow them to recognize substance abusers. Supervisory Employees of the Owner or its subcontractor shall be trained to take action, and to confront a substance abuser in a manner consistent with generally accepted safety-training procedures.

The cost of implementing the Substance Abuse program shall be borne by each respective Contractor affected by this specification.

Suppliers, vendors, and visitors must become signatory to the terms of this specification and their abstinence from substance abuse, and their continued avoidance of violations of the specification at the project site. Furthermore, in the event of an incident and/or accident occurrences involving suppliers, vendors, and/or visitors, the same agrees to submit to the substance abuse testing when requested. Refusal to comply would be grounds to have the supplier, vendor, or visitor permanently barred from the Project site by regulators.

TESTING REQUIREMENTS

The Project requires:

- Post-offer/Pre-engagement drug and alcohol testing.
- Testing for reasonable suspicion of illegal drug use or alcohol use.
- Post accident and post incident drug and alcohol testing upon reasonable suspicion.
- Drug testing following discovery of illegal or unauthorized drugs or paraphernalia as creating reasonable suspicion.

All Prime Contractors must perform post-offer/pre-engagement, and post accident/incident testing upon reasonable suspicion, as follows:

a. All drug testing must be conducted by a National Institute of Drug Abuse (NIDA) certified laboratory with test results interpreted by a licensed medical review officer (MRO).
b. The initial screen tests for alcohol shall be performed by using either a saliva test or breathalyzer test comparable to the type used by state or local law enforcement officials. Furthermore, alcohol confirmatory tests shall be performed by using either blood alcohol test or a Breathalyzer test comparable to the type used by state or local law enforcement officials.
c. Evidence of the negative test results of individual employees required by this specification shall be furnished to the Owner prior to the commencement of work by the individual employee and promptly after performance of any subsequent testing required by this specification. Acceptable negative test result format.
    - A certificate signed by the testing laboratory, setting forth the nature and results of performed; or
    - An identification card signed by the respective Prime Contractor and issued to the individual employee, setting forth as reported on a certificate issued by the testing laboratory. The name of the testing laboratory shall also appear on the identification card; provided the affected employee authorizes the issuance of such identification card.

COMPLIANCE PROCEDURE

The Owner reserves the right to audit any substance abuse program required by this specification to verify compliance results within twenty-four (24) hours of notification of the intent to audit. The Owner shall have free right of access to all relevant records of the Prime Contractor and their subcontractors and supplies for this purpose, provided such record disclosures are within the scope of the States guidelines pertaining to confidentiality of employee records.

The Contractor's pre-engagement employees who receive a positive test result shall immediately leave the Project Site. Transportation of employees receiving the

positive test result is the direct responsibility of the employing Prime Contractor, including employees of its subcontractors. Furthermore, pre-engagement employees receiving a positive test shall not be permitted to return to the Project Site earlier than 90 days from the date of the positive test. At this time the employee may begin the process outlined by this specification again.

DEFINITIONS/ CONFIDENTIALITY/RULES- DISCIPLINARY ACTIONS- GRIEVANCE PROCEDURES

1. DEFINITIONS:

   (a) Company Premises - the term "Company Premises" as used in this policy includes all property, facilities, land, building, structures, automobiles, trucks and other vehicles owned, leased or used by the Contractor on the Project. Construction job sites for which the Contractor has responsibility are included.

   (b) Prohibited Items & Substances - Prohibited substances include illegal drugs (including controlled substances, look alike drugs and designer drugs, alcoholic beverages, and drug paraphernalia in the possession of or being used by an employee on the job.

   (c) Employee - Individuals, who perform work for the Contractor, including, but not limited to management, supervision, engineering, craft workers and clerical personnel.

   (d) Accident - Any event resulting in injury to a person or property to which an employee, or contractor/contractor's employee, contributed as a direct or indirect cause.

   (e) Incident - An event which has all the attributes of an accident, except that no harm was caused to person or property.

   (f) Reasonable Cause - Reasonable cause shall be defined as tardiness, excessive absenteeism, and erratic behavior such as noticeable imbalance, incoherence, and disorientation.

2. CONFIDENTIALITY

   (a) All parties to this policy and program have only the interests of employees in mind; therefore, encourage any employee with a substance abuse problem

to come forward and voluntarily accept our assistance in dealing with the illness. An employee assistance program will provide guidance and direction for you during your recovery period. If you volunteer for help, the Contractor will make every reasonable effort to return you to work upon your recovery. The Contractor will also take action to assure that your illness is handled in a confidential manner.

(b) All actions taken under this policy and program will be confidential and disclosed only to those with a "need to know."

(c) When a test is required, the specimen will be identified with a code number, not by name, to insure confidentiality of the donor. Each specimen container will be properly label and made tamper proof. The donor must witness this procedure.

(d) Unless an initial positive result is confirmed as positive, it shall be deemed negative and reported by the laboratory as such.

(e) The handling and transportation of each specimen will be properly documented through the strict chain of custody procedures.

3. RULES - all employees must report to work in a physical condition that will enable them to perform their jobs in a safe and efficient manner. Employees shall not:

(a) Use, possess, dispense or receive prohibited substances on or at the Project job site; or

(b) Report to work at or on the Project with any measurable amount of prohibited substances in their system.

4. DISCIPLINE - When the Contractor has reasonable cause to believe an employee is under the influence of a prohibited substance, for reasons of safety, the employee may be suspended until test results are available. If no test results are received after three (3) working days, the employee, if available, shall return to work with back pay. If the test results prove negative, the employee shall be reinstated with back pay. In all other cases:

(a) Applicants testing positive for drug use will not be hired.

(b) Employees who have not voluntarily come forward, and who test positive for a drug use, will be terminated.

(c) Employees who refuse to cooperate with testing procedures will be terminated.

(d) Employees found in possession of drugs or drug paraphernalia will be terminated.

(e) Employees found under the influence of alcohol while on duty, or while operating a company vehicle, will be subject to termination.

5. PRESCRIPTION DRUGS - Employees using a prescribed medication which, in their physician's opinion, may impair the performance of their duties, either mental or motor functions, must immediately inform the supervisor of such prescription drug use if instructed by their physician to do so. For the safety of all employees, the Contractor will consult with you and your physician to determine if a reassignment of duties is necessary. The Contractor will attempt to accommodate your needs by making an appropriate reassignment. However, if a reassignment is not possible, you will be placed on temporary medical leave until released as fit for duty by the prescribing physician.

Appendix B

Prevailing Wage Requirements and Rates

Overview
This project will utilize Ohio Prevailing Wage Rates. All contractors and subcontractors are required to comply with all Prevailing Wage Requirements in the Ohio Revised Code. These requirements are outlined below and sample documents are contained in the following pages and will be utilized to comply with these requirements. **Please note that the City of Canton will withhold payroll and/or retainage for a pay application or for the project in total until all prevailing wage issues are resolved.**

Payroll Dates Form
Must be submitted to the Prevailing Wage Coordinator (PWC) on or before the date your company starts work under the contract. It is to be completed with the **actual payroll dates** and not a day of the week. This requirement applies to all contractors/subcontractors.

Letter of Authorization for Payroll Signature
The person signing the certified payrolls must be an Owner or Corporate Officer of the company, or an Authorization letter must be completed and sent to the Prevailing Wage Coordinator. The document sent **must be** the **original signed notarized document**. If the person signing the payroll changes during the course of the project then a new Letter of Authorization for payroll signature must be submitted.

Fringe Benefits Form
Please complete and return along with the payroll dates form and letter of authorization for payroll signature form.

Notification to Employee Form
If your company is a **non-union company** you **must provide a completed Notification form to each employee working on this site and provide the PWC a copy** (wage and fringe benefit amounts on Notification must match amounts listed on payrolls), the form must have the Prevailing Wage Coordinator information, if you are a **union company** you need to send the PWC **a copy of the contract/agreement your company has with the local Trade Union(s)**.

Certified Payroll
The **first certified payroll** must be sent to the Prevailing Wage Coordinator **within two weeks of 1st pay period on the job**, payrolls must be sent **weekly** to the Prevailing Wage Coordinator if your company is working **four months or less** on site, payrolls must be sent **at least monthly** if working **more than four months** on site. Certified payroll forms used by contractors **must include all the information that is on payroll form included** with this package, if the payroll form you use does not have sections for all the information, it must be included as an attachment to the certified payroll. (During the project you may send copies of the certified payroll but **by the end of the project you must provide the original signed documents to the Prevailing Wage Coordinator** before you will receive your final payment). Fringe benefit break down needs to be attached to **each** payroll. For any **work classifications** requiring a group number (1-5) such as laborer or operating engineer if the group number or identifying equipment employee is operating is not entered a revised payroll will be required.

Affidavit of Compliance
When each contractor/subcontractor has completed their work on the job site they're required to submit a Final Affidavit of Compliance before the primary contractor receives their final payment and any retainer. Must send Prevailing Wage Coordinator original signed document.

Apprentices
Any/all apprentices working on this project must be registered with the State of Ohio Apprenticeship Council, apprentices on site cannot exceed ratios in the wage decision rate schedule, contractors/subs must provide the Prevailing Wage Coordinator a copy of the Apprenticeship Agreement from the program for each apprentice on the project with the first payroll on which they appear. You must provide the apprentice level/year, i.e. 1, 2, 3, etc. and/or percent of Journeyman's pay rate, i.e. 50%, 55%, etc. on the certified payrolls.

Subcontractors
If any subcontractors will be used during this project then a list of subcontractors including their name, address, and phone number must be provided to the Prevailing Wage Coordinator. The Prime contractor is responsible for all forms to be furnished to subcontractors, **along with wage rates** or any other modification vital to the project.

Prevailing Wage Rates
Attached are the State of Ohio Prevailing Wage Rates as of the posting date of this bid. Actual rates due to workers will be those in affect at the time of work. Please note that the wages of the County where the work is be completed will be in effect. Due to the location of the water treatment plants, this could be either Stark or Tuscarawas counties. Both are attached. All applicable prevailing wage rates must be posted on the job site for the duration of the project.

WEEKLY PAYROLLS

Each week as work progresses the Contractor must submit to the Prevailing Wage Coordinator original, certified, signed weekly payrolls containing the following information:

A) Name of each employee.

B) Employees' social security numbers

C) Special classification of employees (same as shown on wage determination or provisional approval.)

D) Rate of pay not less than that shown on the wage determination.

E) Allowable fringe benefits paid to the employee.

F) Hours worked each day and total hours worked for each week for each employee.

G) Gross amount paid to each employee.

H) Itemized deductions for each employee.

I) Net amount paid to each employee.

J) The following certification:

"I certify that the payroll is correct and complete, that the wage rates contained therein are not less than the applicable rates contained in the Wage Determination decision of the Department of Industrial Relations, Prevailing Wage Rate Division, State of Ohio, and that the classifications set forth for each laborer or mechanic conform with the work he performs".

_____ _____

(SIGNATURE) (TITLE)

PREVAILING WAGE COORDINATOR

The City of Canton has designated Cheryl Southwell as Prevailing Wage Coordinator, in accordance with Section 4115.071 of the Ohio Revised Code.

Her office is located at City of Canton, 218 Cleveland Ave SW, Canton, Ohio 47702
Cheryl Southwell: 330-438-4183

CONTRACTORS SUBMISSIONS TO THE WAGE COORDINATOR:

1) Contractors are required to supply to the Wage Coordinator, **a schedule of the dates during the life of the contract with City of Canton on which they are required to pay wages to the employees**. See Section 4115.03 (A) (2)

2) Contractors shall also deliver to the Wage Coordinator **a certified copy of the payroll within two weeks after the initial pay date and supplemental reports for each month thereafter, which shall exhibit for each employee, their name, current address, social security number, job classification, number of hours worked for project, rate of pay, project gross pay, fringe payments, total hours all jobs, total gross all jobs, and deductions from their wages.** See Section 4115.03 (A) (3)

3) If the life of the contract is expected to be no more than four months from the beginning of performance by the contractor or subcontractor, such supplemental reports shall be filed each week after the initial report. See Section 4115.03 (A) (6) (C)

4) The certification of each payroll shall be executed by the contractor, subcontractor, or duly appointed agent thereof and **include a State of Compliance** stating that the payroll is correct and complete and that during the payroll period, all persons employed on said project have been paid the full weekly wages earned, that no rebates have or will be made either directly or indirectly to, or on behalf of said contractor or subcontractor for the full weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions. See Section 4115.03 (A) (6) (C)

5) Contractors will also provide **each month a copy of any Labor Union Fringe Benefit Fund reports that they submitted to the unions**. See Section 4115.03

PREVAILING WAGE COORDINATOR MONITORING PROCEDURES

The wage Coordinator's duties are those specified in Section 4115.071 and shall include:

1 Attend Pre-Construction Meetings to advise contractor of Prevailing Wage responsibilities

2 Wage Coordinator has the authority to spot check employees pay checks in the field on the scheduled pay days for full compliance, with regard to the prevailing wage rates, including benefits.

3 Wage Coordinator shall visit the project site to get names of employees performing work on the project site, to cross check with payroll reports submitted.

4 Wage Coordinator shall verify the subcontractors performing work on the project site with regard to whether they have been approved by the contracting authority.

5 Wage Coordinator shall check to see that the prevailing wages are posted on the project site in a place accessible to employees.

6 Ascertain that the statement of compliance accompanying the certified payroll is the correct one for the project

7 Wage Coordinator has the right to request any addition information they feel is required for proper wage verification.

8 Contact Contractors of delinquent payrolls

9 Notify contractors when necessary to request payroll corrections

10 Investigate wage complaints ,by self or with Ohio Department of Commerce Division of Labor & Worker Safety

PAYROLL DATES
PREVAILING WAGE LAW

Instructions to the Contractor: Please read the following and provide the required information noted on this form. This document must be submitted to the Prevailing Wage Coordinator for the public authority on or before your company begins any work under a contract for a public improvement. This requirement is also applicable to your subcontractors. Please make a copy of this document available to them. The prevailing wage laws state that contractors are responsible for their subcontractors.

_____ will begin performance under contract on the
(Name of Contractor)

_____ project on _____
(Name and Location of Project) (Start Date)

and will conclude work on said project on _____.
(End Date, if known)

In accordance with Section 4115.071 (C) of the Ohio Revised Code, listing of payroll dates, I hereby submit the following schedule of dates that my company is required to pay wages to its workers while on this project.
NOTE: If the life of the project is expected to be over three (3) months in length, provide only the days of the week your pay period starts and ends, plus the day you pay your workers.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Day Pay Period Starts:_____ Day Pay Period Ends:_____

Pay Day:_____

I acknowledge that I am required by section 4115.071 (C) of the Ohio Revised Code that I must submit a copy of my company's certified payroll records for this project to the Prevailing Wage Coordinator of the public authority within two weeks of the initial pay date listed above. I further acknowledge that I am responsible to collect and submit my subcontractor's prevailing wage documents, including their certified payroll records in accordance with the law.

_____ _____
(Contractor's Signature and Title) (Company Name)

_____
(Date)

LETTER OF AUTHORIZATION FOR PAYROLL SIGNATURE:

DATE: _____

COMPANY NAME: _____

ADDRESS: _____

_____

FEDERAL I.D.# _____

RE: _____

(Project Name) (Project Number)

_____

(Address)

_____ hereby authorizes

(Company Officer/Owner-Title)

_____ as the person to

complete and sign all certified payroll forms for the above project.

BY:_____

(Print Name)

_____

(Signature)

_____

(Title)

Sworn and subscribed in my presence this _____ day of _____ 20___

_____

Notary Public

FRINGE BENEFITS

PLEASE COMPLETE THIS FORM AND RETURN IT TO THE ADDRESS BELOW.

_____ FRINGE BENEFITS ARE ALL PAID IN CASH TO THE EMPLOYEE.

_____ FRINGE BENEFITS ARE PAID IN CASH AND TO THE BENEFIT PROGRAMS LISTED BELOW.

_____ FRINGE BENEFITS ARE ALL PAID TO THE FOLLOWING BENEFIT PROGRAMS:

HEALTH & WELFARE PLAN: _____

ADDRESS: _____

_____

PENSION PLAN: _____

ADDRESS: _____

_____

APPRENTICESHIP PROGRAM: _____

YOUR COMPANY IS: _____ UNION _____ NON-UNION

YOUR COMPANY PAYS ALL EMPLOYEES: _____ WEEKLY _____ BI-WEEKLY

FORWARD A BLANK FORM TO EACH SUBCONTRACTOR ON THE PROJECT FOR COMPLETION.
RETURN ALL FORMS TO:

CITY OF CANTON
218 CLEVELAND AVE SW
CANTON, OHIO 44702
ATTN: PREVAILING WAGE COORDINATOR

CONTRACTOR'S NAME: _____

ADDRESS: _____

PROJECT NAME: _____

PREVAILING WAGE NOTIFICATION TO EMPLOYEE

4115.05...the contractor or subcontractor shall furnish each employee **NOT covered by a collective bargaining agreement** written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed.

Project Name:	Job Number:
Contractor:	
Project Location:	

Prevailing Wage Coordinator	Employee
Public Authority:	Name:
Name of PWC:	Street:
Street:	City:
City:	State/Zip:
State/Zip:	Phone: Email:
Phone:	Last 4 Digits of SS #:

You will be performing work on this project that falls under these classifications. You will be paid the appropriate rate for the type of work you are performing.

Classification:	Prevailing Wage Rate Total Package:	Minus your fringe benefits *:	Your hourly base rate and overtime:
			/
			/
			/
			/
			/
			/

Hourly fringe benefits paid on your behalf by this company (Yearly amount the **company pays** divided by 2080):

Fringe	Amount	Fringe	Amount
Health Insurance		Vacation	
Life Insurance		Holiday	
Pension		Sick Pay	
Other (Specify)		Training	
Other (Specify)		**Total Hourly Fringes ***	

Contractor's Signature:	Date:
Employee's Signature:	Date:

INSTRUCTIONS FOR PREPARING CERTIFIED PAYROLL REPORTS

General:

Contractors and subcontractors are required by law to submit certified payroll reports for work on projects covered by Ohio's Prevailing Wage Law. This form meets the reporting requirements established by Ohio Revised Code Chapter 4115. The use of this form is not mandatory; employers may submit their own forms if all of the required information is included. This form may be reproduced, or additional copies obtained from:

Ohio Department of Commerce
Division of Industrial Compliance
Bureau of Wage and Hour Administration
6606 Tussing Road, P.O. Box 4009
Reynoldsburg, Ohio 43068-9009
614-644-2239
www.com.ohio.gov

Certified Payroll Heading:

Employer name and address: Company's full name and address...Indicate if the company is a subcontractor.
Subcontractor: Check and list the name of the General Contractor or Prime.
Project: Name and location of the project, including county.
Contracting Public Authority: Name and address of the contracting public authority... (Owner of the project).
Week Ending: Month, day, and year for last day of reporting period.
Payroll #: Indicates first, second, third, etc. payroll filed by the company for the project.
Page indicator: number of pages included in the report.
Project Number: Determined by the public authority...If there is no number leave blank.

Payroll Information by column:

1. Employee Name, Address and Social Security number: This information must be provided for all employees that perform physical labor on the project. The Social Security number is required; the last four digits may be permitted by the public authority. Corporate officers, partners, and salaried employees are considered employees and must be paid the prevailing rate. Individual sole proprietors do not have to pay themselves prevailing rate but must report their hours on the project.

2. Work Class: List classification of work performed by employee. If unsure of work classification, consult the Ohio Department of Commerce-Division of Industrial Compliance & Labor-Bureau of Wage and Hour Administration. Employees working more than one classification should have separate line entries for each classification. Indicate what year/level for Apprentices. Be specific when using laborer and operator classifications; for example, Backhoe Operator or Asphalt Laborer or by "Group".

3. Hours Worked, Day & Date: In the first row of column 3, enter days of the company's pay period for example; M T W TH F S S. The second row is for the date that corresponds with each day for the pay period. In the employee information section, enter the number of hours worked on the prevailing wage project and which day the hours were worked. Separate rows are labeled for (ST) straight time hours and (OT) overtime hours. All hours worked after 40, must be paid at the appropriate overtime rate.

4. Project Total Hours: Total the hours entered for pay period.

5. Base Rate: Enter actual rate per hour paid to the employee. The overtime hourly rate is time and one-half the base rate listed in the prevailing wage schedule plus fringe benefits at straight time rate. The prevailing wage schedule lists the base rate plus fringe benefit amounts. These amounts added together equal the total prevailing wage rate. Employers must pay this total amount in one of three ways.
   1) Total rate may be paid in entirety in the base rate to the employee; in which case, the cash designation will be checked for fringe benefits.
   2) Total rate may be paid as listed in prevailing wage rate schedule with total fringe amounts paid approved plans.
   3) Total rate may be paid with a combination of base rate and fringe payments to approved plans in amounts other than those listed in schedule.

6. Project Gross: Enter total gross wages earned on the project for straight time and overtime. Project hours "X" base rate should equal project gross.

7. Fringes: If fringe benefits are paid in the hourly base rate, indicate this by marking the **Cash** space. If fringe benefits are paid to approved plans as listed in the prevailing wage rate schedule, mark the space **Approved Plans**. If fringe benefits are paid partially in the base rate and partially to approved plans, mark the space **Cash & Approved Plans**. List the hourly amount paid to approved plans for each fringe. If payments are not made on a per hour basis, ***calculate the hourly fringe credit by dividing the yearly employer contribution by*** the lesser of: hours actually worked in the year (these must be documented) or ***2080***. Fringe benefits include: **Employer's share** of health insurance, life insurance, retirement plan, bonus/profit sharing, sick pay, holiday pay, personal leave, vacation, and education/training programs. If unsure of a possible fringe benefit, contact the Ohio Department of Commerce-Division of Industrial Compliance & Labor-Bureau of Wage and Hour Administration.

8. Total Hours All Jobs: Total all hours worked during the pay period including non-prevailing wage jobs.

9. Total Gross All Jobs: Gross amount earned in the pay period for all hours worked.

10. Self-explanatory.

11. Self-explanatory.

Certified Payroll Report

Report for:

Company:[1] _____

Address: _____

City, State, Zip _____

Phone No: _____

☐ Check if Subcontractor[1]

If Sub, GC/Prime Contractor Name: _____

Public Authority (Owner): _____

Contract No: _____

Project Name & Location: _____

Payroll No: _____

Week Ending: _____

Sheet:[2] _____ of _____

1. Employee Name, Address, & SS# (Last 4 digits if permitted)	2.Work Class[3]	3.Prevailing Wage Project Hours Worked - Day & Date								4.Total Hours	5.Base Rate	6.Project Gross	7. Fringes: ☐ Cash ☐ Approved Plans ☐ Cash & Approved Plans						Weekly Payroll Amount			
													Fringe Rate Your Company Pays Per Hour						8.Total Hrs for all Jobs	9. Total Gross on All Jobs	10. Total Deductions	11. Net Pay on All Jobs
													H&W	Pens	Vac	Hol	Other	Total				
		OT																				
		ST																				
		OT																				
		ST																				
		OT																				
		ST																				
		OT																				
		ST																				
		OT																				
		ST																				

1) By signing below, I certify that: (1) I pay, or supervise the payment of the employees shown above; (2) during the pay period reported on this form, all hours worked on this project have been paid at the appropriate prevailing wage rate for the class of work done; (3) the fringe benefits have been paid as indicated above; (4) no rebates or deductions have been or will be made, directly or indirectly from the total wages earned, other than permissable deductions as defined in ORC Chapter 4115; and (5) apprentices are registered with the U.S. Dept. of Labor, Bureau of Apprenticeship and Training. I understand that the willful falsification of any of the above statements may subject the Contractor or Subcontractor to civil or criminal prosecution.

Type or Print Name and Title _____ Signature _____ Date _____

[2]Attach additional sheets as necessary. [3]Type in continuous line, text will wrap.

DO NOT REDO FORM AND CHANGE RATES IF AN ERROR HAS BEEN MADE! SUBMIT A CORRECTED REPORT:

CORRECTED

CORRECTED FORMS CAN BE HANDWRITTEN

CERTIFIED PAYROLL REPORT

Total Hours being corrected for this indiv.

Difference in base rate & corrected base rate if applicable.

Employer Name & Address Fill out all other areas of the form as usual.	Name of General / Prime Contractor	Project Name & Location	Contracting Public Authority
Check if subcontractor ☐	Week Ending	Payroll # Correcting from xx to xx Page ____ Of ____	Project Number

1. Employee Name, Address and Social Security Number	2. Work Class	3. Hours Worked - Day & Date	4. Project Total Hrs	5. Base Rate	6. Project Gross	7. Fringes: Cash ☐ Approved Plans ☐ Cash & Approved Plans ☐					8. Total Hours All Jobs	9. Total Gross All Jobs	10. Taxes Withheld	11. Other Deducts	12. NET Paid
						H&W	Pens	Vac	App	Other					
Name/Address/SSN	Class	OT													
		ST													
Name/Address/SSN	Class														
		ST													
		OT													
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		ST													

Put the period that is being corrected, i.e.: Oct 26 to Dec 19, not individual weekly dates.

Difference in fringes & corrected fringes if applicable.

The net paid will be the total of difference paid and the total hours being corrected. Provide Check # in margin.

Date Fill in My signature on this form signifies that I pay, or supervise the payment of the employees shown above. I am certifying: 1) That during the pay period reported on this form, all hours worked on this project have been paid at the appropriate prevailing wage rate for the class of work done. 2) That the fringe benefits have been paid as indicated above. 3) That no rebates or deductions have been or will be made, directly or indirectly from the total wages earned, other than permissable deductions as defined in the Ohio Revised Code Chapter 4115. 4) That apprentices are registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training. The willful falsification of any of the above statements may subject the contractor or subcontractor to civil or criminal prosecution.

Name and Title Complete

Signature Sign

Send cover letter stating what happened, with a signed letter from the employee acknowledging that they were underpaid, received payment, check or transaction number.

FINAL AFFIDAVIT OF COMPLIANCE
PREVAILING WAGES

I, _____, _____ do hereby certify
(Name of person signing affidavit) (Title)

that the wages paid to all employees of: _____
(Company name)

for all hours worked on project: _____
(Project name)

_____
(Project location)

During the period from _____to_____ are in compliance with
(Project Dates)

Prevailing Wage requirements of Chapter 4115 of the Ohio Revised Code. I further certify that no rebates or deductions have been or will be made, directly or indirectly, from any wages paid in connection with this project, other than those provided by law.

_____ _____
(Signature of Officer or Agent) (Print Name of Officer or Agent)

Sworn to and subscribed in my presence this _____day of _____, 20_____.

_____
(Notary Public)

The above affidavit must be executed and sworn to by the officer or agent of the contractor or subcontractor who supervises the payment of employees. This affidavit must be submitted to the owner (public authority) before the surety is released or final payment due under the terms of the contract is made.

Appendix B

Prevailing Wage Determination Cover Letter

County: STARK
Determination Date: 02/27/2023
Expiration Date: 05/27/2023

THE FOLLOWING PAGES ARE PREVAILING RATES OF WAGES ON PUBLIC IMPROVEMENTS FAIRLY ESTIMATED TO BE MORE THAN THE AMOUNT IN O.R.C. SEC. 4115.03 (b) (1) or (2), AS APPLICABLE.

Section 4115.05 provides, in part: "Where contracts are not awarded or construction undertaken within ninety days from the date of the establishment of the prevailing wages, there shall be a redetermination of the prevailing rate of wages before the contract is awarded." The expiration date of this wage schedule is listed above for your convenience only. This wage determination is not intended as a blanket determination to be used for all projects during this period without prior approval of this Department.

Section 4115.04, Ohio Revised Code provides, in part: "Such schedule of wages shall be attached to and made a part of the specifications for the work, and shall be printed on the bidding blanks where the work is done by contract..."

The contract between the letting authority and the successful bidder shall contain a statement requiring that mechanics and laborers be paid a prevailing rate of wage as required in Section 4115.06, Ohio Revised Code.

The contractor or subcontractor is required to file with the contracting public authority upon completion of the project and prior to final payment therefore an affidavit stating that he has fully complied with Chapter 4115 of the Ohio Revised Code.

The wage rates contained in this schedule are the "Prevailing Wages" as defined by Section 4115.03, Ohio Revised Code (the basic hourly rates plus certain fringe benefits). These rates and fringes shall be a minimum to be paid under a contract regulated by Chapter 4115 of the Ohio Revised Code by contractors and subcontractors. The prevailing wage rates contained in this schedule include the effective dates and wage rates currently on file. In cases where future effective dates are not included in this schedule, modifications to the wage schedule will be furnished to the Prevailing Wage Coordinator appointed by the public authority as soon as prevailing wage rates increases are received by this office.

"There shall be posted in a prominent and accessible place on the site of work a legible statement of the Schedule of Wage Rates specified in the contract to the various classifications of laborers, workmen, and mechanics employed, said statement to remain posted during the life of such contract." Section 4115.07, Ohio Revised Code.

Apprentices will be permitted to work only under a bona fide apprenticeship program if such program exists and if such program is registered with the Ohio Apprenticeship Council.

Section 4115.071 provides that no later than ten days before the first payment of wages is due to any employee of any contractor or subcontractor working on a contract regulated by Chapter 4115, Ohio Revised Code, the contracting public authority shall appoint one of his own employees to act as the prevailing wage coordinator for said contract. The duties of the prevailing wage coordinator are outlined in Section 4115.071 of the Ohio Revised Code.

Section 4115.05 provides for an escalator in the prevailing wage rate. Each time a new rate is established, that rate is required to be paid on all ongoing public improvement projects.

A further requirement of Section 4115.05 of the Ohio Revised Code is: "On the occasion of the first pay date under a contract, the contractor shall furnish each employee not covered by a collective bargaining agreement or understanding between employers and bona fide organizations of Labor with individual written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage Coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed."

Work performed in connection with the installation of modular furniture may be subject to prevailing wage.

THIS PACKET IS NOT TO BE SEPARATED BUT IS TO REMAIN COMPLETE AS IT IS SUBMITTED TO YOU. (Reference guidelines and forms are included in this packet to be helpful in the compliance of the Prevailing

Wage law.)
wh1500

Prevailing Wage Rate
Skilled Crafts

Name of Union: Asbestos Local 207 OH

Change # : LCN01-2018fbLoc207OH

Craft : Asbestos Worker Effective Date : 08/23/2018 Last Posted : 08/23/2018

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Asbestos Abatement	$25.50	$7.25	$6.45	$0.65	$0.00	$0.00	$0.07	$0.00	$0.00	$39.92	$52.67
Trainee	$16.50	$7.25	$1.50	$0.65	$0.00	$0.00	$0.07	$0.00	$0.00	$25.97	$34.22

Special Calculation Note :

Ratio :

3 Journeymen to 1 Trainee

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ASHLAND, ASHTABULA*, ATHENS, AUGLAIZE, BROWN, BUTLER*, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARDIN, HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, KNOX, LAKE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MIAMI, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PORTAGE, PREBLE, RICHLAND, ROSS, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN*, WAYNE

Special Jurisdictional Note : Butler County:(townships of Fairfield,Hanover,Liberty,Milford,Morgan,Oxford,Ripley,Ross,StClair,Union & Wayne.) (Lemon & Madison) Warren County: (townships of: Deerfield, Hamilton, Harlan, Salem, Union & Washington). (Clear Creek, Franklin, Mossie, Turtle Creek & Wayney). Ashtabula County: (post offices & townships

of Ashtabula, Austinburg, Geneva, Harperfield, Jefferson, Plymouth & Saybrook) (townships of Andover, Cherry Valley, Colbrook, Canneaut, Denmark, Dorset, East Orwell, Hartsgrove, Kingville, Lenox, Monroe,Morgan,New Lyme,North Kingsville, Orwell, Pierpoint, Richmond Rock Creek, Rome, Shefield, Trumbull, Wayne, Williamsfield & Windsor) Erie County:(post offices & townships of Berlin, Berlin Heights,Birmingham,Florence ,Huron, Milan, Shinrock & Vermilion)

Details :

Asbestos & lead paint abatement including,but not limited to the removal or encapsulation of asbestos & lead paint,all work in conjunction with the preparation of the removal of same & all work in conjunction with the clean up after said removal.The removal of all insulation materials, whether they contain asbestos or not, from mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) is recognized as being the exclusive work of the Asbestos Abatement Workers.

On all mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) that are going to be demolished, the removal of all insulating materials whether they contain asbestos or not shall be the exclusive work of the Laborers.

An Abatement Journeyman is anyone who has more than 300 hours in the Asbestos Abatement field.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Asbestos Local 3 Heat & Frost Insulators

Change # : LCN01-2022sksLoc3

Craft : Asbestos Worker Effective Date : 09/21/2022 Last Posted : 09/21/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Asbestos Insulation Worker	$41.23		$14.40	$10.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$65.63	$86.25
Fire Stop Specialist	$41.23		$14.40	$10.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$65.63	$86.25
Fire Stop Technician	$34.10		$14.40	$4.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$52.50	$69.55
Apprentice	Percent											
1st year	50.20	$20.70	$14.40	$1.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$36.10	$46.45
2nd year	63.68	$26.26	$14.40	$2.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$42.66	$55.78
3rd year	69.25	$28.55	$14.40	$3.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$45.95	$60.23
4th year	82.70	$34.10	$14.40	$4.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$52.50	$69.55

Special Calculation Note : There are no special calculations for this classification.

Ratio :

3 Journeymen to 1 Apprentice per shop

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, ASHTABULA*, CARROLL, COLUMBIANA, COSHOCTON, CUYAHOGA, ERIE*, GEAUGA, HARRISON, HOLMES, HURON, LAKE, LORAIN, MAHONING, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Ashtabula (the townships of Ashtabula, Austinburg, Geneva, Jefferson, Plymouth & Saybrook), The remainder of Ashtabula County will be considered open counties on a 90 day basis autormatically renewable unless revoked by the Union upon 15 day written notice by the employers. Erie (to Sandusky limits)

Details :

Mechanics & apprentices engaged in the manufacture,fabrication,assembling,molding,handling,erection,spraying,pouring,mixing,hanging,clean-up, preparation,application,adjusting,alteration,repairing,dismantling,reconditioning,testing&maintenance of Heat & Frost Insulation such as Magnesia,Asbestos,Hair Felt,Wool Felt,Cork,Mineral Wool, Infusorial Earth,Mercerized Silk,Flax,Fiber,Fire Felt,Asbestos Paper,Asbestos Curtain,Asbestos Millboard,Fiberglass,

Foam glass, Styrofoam, Polyurethane, fire stopping,smoke stopping,all recyclable material,soundproofing,all penetrations,any flexible or rigid fireproofing,all jacketing systems including metal,lead,and PVC or other material.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Asbestos Local 84 Heat & Frost Insulators

Change # : LCN01-2023ibLoc84

Craft : Asbestos Worker Effective Date : 02/15/2023 Last Posted : 02/15/2023

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Asbestos Insulation Worker	$34.57		$7.90	$9.50	$0.36	$0.00	$6.39	$0.24	$0.00	$0.00	$58.96	$76.24
Apprentice	Percent											
1st Year	50.02	$17.29	$7.90	$9.50	$0.36	$0.00	$6.39	$0.24	$0.00	$0.00	$41.68	$50.33
2nd Year	60.00	$20.74	$7.90	$9.50	$0.36	$0.00	$6.39	$0.24	$0.00	$0.00	$45.13	$55.50
3rd Year	70.00	$24.20	$7.90	$9.50	$0.36	$0.00	$6.39	$0.24	$0.00	$0.00	$48.59	$60.69
4th Year	80.00	$27.66	$7.90	$9.50	$0.36	$0.00	$6.39	$0.24	$0.00	$0.00	$52.05	$65.87

Special Calculation Note : Other is Industry and Labor Management Fund

Ratio :

3 Journeymen to 1 Apprentice per shop

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, ASHTABULA*, CARROLL, COLUMBIANA, COSHOCTON, HARRISON, HOLMES, MAHONING, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Ashtabula County: except for the townships of Ashtabula, Austinburg, Geneva, Harpersfield, Jefferson, Plymouth and Saybrook.

Details :

The removal of all insulation materials, whether they contain asbestos or not, from mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) is recognized as being the exclusive work of the Asbestos Workers.

On all mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) that are going to be demolished, the removal of all insulating materials whether they contain asbestos or not shall be the exclusive work of the Laborers.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Boilermaker Local 744

Change # : LCNO1-2019fbLoc744

Craft : Boilermaker Effective Date : 04/03/2019 Last Posted : 04/03/2019

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Boilermaker	$38.05		$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$67.76	$86.78
Apprentice	Percent											
1st 6 months	70.02	$26.64	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$56.35	$69.67
2nd 6 months	72.52	$27.59	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$57.30	$71.10
3rd 6 months	75.00	$28.54	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$58.25	$72.52
4th 6 months	77.51	$29.49	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$59.20	$73.95
5th 6 months	80.00	$30.44	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$60.15	$75.37
6th 6 months	85.03	$32.35	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$62.06	$78.24
7th 6 months	90.00	$34.25	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$63.96	$81.08
8th 6 months	95.00	$36.15	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$65.86	$83.93
Helper	60.00	$22.83	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$52.54	$63.96

Special Calculation Note : Other is Supplemental Health

Ratio :

5 Journeymen to 1 Apprentice to 1 Helper

Jurisdiction (* denotes special jurisdictional note) :

ASHTABULA, CARROLL, COSHOCTON, CUYAHOGA, GEAUGA, HARRISON, HOLMES, LAKE, LORAIN, MAHONING, MEDINA, PORTAGE, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 6

Change # : LCN01-2022sksLoc6

Craft : Bricklayer **Effective Date :** 05/04/2022 **Last Posted :** 05/04/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer	$30.76		$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$49.88	$65.26
Pointer Caulker Cleaner	$30.76		$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$49.88	$65.26
Stone Mason	$30.76		$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$49.88	$65.26
Cement Mason	$30.76		$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$49.88	$65.26
Plaster	$30.76		$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$49.88	$65.26
Apprentice	Percent											
1st 6 months	55.00	$16.92	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$36.04	$44.50
2nd 6 months	60.00	$18.46	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$37.58	$46.80
3rd 6 months	65.00	$19.99	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$39.11	$49.11
4th 6 months	70.00	$21.53	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$40.65	$51.42
5th 6 months	75.00	$23.07	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$42.19	$53.73
6th 6 months	80.00	$24.61	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$43.73	$56.03
7th 6 months	90.00	$27.68	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$46.80	$60.65
8th 6 months	95.00	$29.22	$9.64	$8.23	$1.20	$0.00	$0.00	$0.05	$0.00	$0.00	$48.34	$62.95

Special Calculation Note : OTHER IS DRUG TESTING

Ratio :

1 Journeymen to 1 Apprentice
5 Journeymen to 2 Apprentice
9 Journeymen to 3 Apprentice
13 Journeymen to 4 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, STARK, TUSCARAWAS

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 8 Zone 2 Tile Setters & Finishers

Change # : LCN1-2022sksLoc6

Craft : Bricklayer Effective Date : 06/08/2022 Last Posted : 06/08/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer Tile Setter	$26.74		$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$42.66	$56.03
Marble Mason	$26.74		$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$42.66	$56.03
Terrazzo worker	$26.74		$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$42.66	$56.03
Finisher Support	$24.16		$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$40.08	$52.16
Apprentice Finisher Support Only												
1st 30 days	$14.50		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14.50	$21.75
30 days-6 months	$14.50		$8.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$23.19	$30.44
2ND 6 months	$16.91		$8.69	$6.60	$0.60	$0.00	$0.00	$0.00	$0.00	$0.00	$32.80	$41.26
3RD 6 months	$18.12		$8.69	$6.60	$0.60	$0.00	$0.00	$0.00	$0.00	$0.00	$34.01	$43.07
4TH 6 months	$19.33		$8.69	$6.60	$0.60	$0.00	$0.00	$0.00	$0.00	$0.00	$35.22	$44.89
5TH 6 months	$20.54		$8.69	$6.60	$0.60	$0.00	$0.00	$0.00	$0.00	$0.00	$36.43	$46.70
6TH 6 months	$21.74		$8.69	$6.60	$0.60	$0.00	$0.00	$0.00	$0.00	$0.00	$37.63	$48.50
Apprentice	**Percent**											
1st 30 Days	60.00	$16.04	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$16.04	$24.07
30 days- 6 months	60.00	$16.04	$8.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$24.73	$32.76
2nd 6 months	70.00	$18.72	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$34.64	$44.00
3rd 6 months	75.00	$20.05	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$35.98	$46.00
4th 6 months	80.00	$21.39	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$37.31	$48.01

5th 6 months	85.00	$22.73	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$38.65	$50.01
6th 6 months	90.00	$24.07	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$39.99	$52.02
7th 6 months	95.00	$25.40	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$41.32	$54.02
8th 6 months	95.00	$25.40	$8.69	$6.60	$0.63	$0.00	$0.00	$0.00	$0.00	$0.00	$41.32	$54.02

Special Calculation Note : Classification title contains "Bricklayer" because contract originates within the Bricklayer Local.
Note that the classification description is clarified after the local union number at the top of the page.

Ratio :

4 Journeymen to 1 Apprentice
6 Journeymen to 1 Apprentice (Thereafter)

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON, JEFFERSON, MONROE, STARK, TUSCARAWAS

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Commercial NE Zone 2B

Change # : LCN01-2022sksLocNEZone2B

Craft : Carpenter Effective Date : 06/08/2022 Last Posted : 06/08/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter	$29.04		$7.88	$11.77	$0.50	$0.00	$1.36	$0.12	$0.00	$0.00	$50.67	$65.19
Apprentice	Percent											
1st 3 Months	60.00	$17.42	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$17.42	$26.14
2nd 3 Months	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$25.92	$34.64
2nd 6 Months is 1st year	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$25.92	$34.64
3rd 6 Months	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$25.92	$34.64
4th 6 Months is 2nd year	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$25.92	$34.64
5th 6 Months	70.00	$20.33	$7.88	$8.24	$0.50	$0.00	$0.95	$0.12	$0.00	$0.00	$38.02	$48.18
6th 6 Months is 3rd year	75.00	$21.78	$7.88	$8.83	$0.50	$0.00	$1.02	$0.12	$0.00	$0.00	$40.13	$51.02
7th 6 Months	80.00	$23.23	$7.88	$9.42	$0.50	$0.00	$1.09	$0.12	$0.00	$0.00	$42.24	$53.86
8th 6 Months is 4th year	85.00	$24.68	$7.88	$10.00	$0.50	$0.00	$1.16	$0.12	$0.00	$0.00	$44.34	$56.69

Special Calculation Note : *Other is International Training

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Floorlayer NE Zone 2B

Change # : OCR01-2022sksLocNEZone2B

Craft : Carpenter **Effective Date :** 06/15/2022 **Last Posted :** 06/15/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Floorlayer	$29.04		$7.88	$11.77	$0.50	$0.00	$1.36	$0.14	$0.00	$0.00	$50.69	$65.21
Apprentice	Percent											
1st 3 Months	60.00	$17.42	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$17.42	$26.14
2nd 3 Months	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.14	$0.00	$0.00	$25.94	$34.66
2nd 6 Months is 1st year	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.14	$0.00	$0.00	$25.94	$34.66
3rd 6 Months	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.14	$0.00	$0.00	$25.94	$34.66
4th 6 Months is 2nd year	60.00	$17.42	$7.88	$0.00	$0.50	$0.00	$0.00	$0.14	$0.00	$0.00	$25.94	$34.66
5th 6 Months	70.00	$20.33	$7.88	$8.24	$0.50	$0.00	$0.95	$0.14	$0.00	$0.00	$38.04	$48.20
6th 6 Months is 3rd year	75.00	$21.78	$7.88	$8.83	$0.50	$0.00	$1.02	$0.14	$0.00	$0.00	$40.15	$51.04
7th 6 Months	80.00	$23.23	$7.88	$9.42	$0.50	$0.00	$1.09	$0.14	$0.00	$0.00	$42.26	$53.88
8th 6 Months is 4th year	85.00	$24.68	$7.88	$10.00	$0.50	$0.00	$1.16	$0.14	$0.00	$0.00	$44.36	$56.71

Special Calculation Note : *Other is International Training

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Insulation NE Zone 2B

Change # : LCN01-2022sksLocNEZone2B

Craft : Carpenter **Effective Date :** 06/15/2022 **Last Posted :** 06/15/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Insulation	$23.23		$7.88	$11.77	$0.50	$0.00	$1.36	$0.12	$0.00	$0.00	$44.86	$56.48
Apprentice	Percent											
1st 3 months	50.00	$11.62	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11.62	$17.42
2nd 3 months	50.00	$11.62	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$20.12	$25.92
2nd 6 months	50.00	$11.62	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$20.12	$25.92
3rd 6 months	55.00	$12.78	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$21.28	$27.66
4th 6 months	60.00	$13.94	$7.88	$0.00	$0.50	$0.00	$0.00	$0.12	$0.00	$0.00	$22.44	$29.41
5th 6 months	70.00	$16.26	$7.88	$8.24	$0.50	$0.00	$0.95	$0.12	$0.00	$0.00	$33.95	$42.08
6th 6 months	75.00	$17.42	$7.88	$8.83	$0.50	$0.00	$1.02	$0.12	$0.00	$0.00	$35.77	$44.48
7th 6 months	80.00	$18.58	$7.88	$9.42	$0.50	$0.00	$1.09	$0.12	$0.00	$0.00	$37.59	$46.89
8th 6 months	85.00	$19.75	$7.88	$10.00	$0.50	$0.00	$1.16	$0.12	$0.00	$0.00	$39.41	$49.28

Special Calculation Note : *Other is Training

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Millwright NE Zone M3

Change # : OCR01-2022sksLocNEZoneM3

Craft : Carpenter **Effective Date :** 06/15/2022 **Last Posted :** 06/15/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Millwright	$34.05		$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$56.44	$73.46
Certified Welder	$35.05		$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$57.44	$74.96
Lay-Out Man on Monorail	$35.55		$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$57.94	$75.71
Apprentice	Percent											
1st 6 months	60.00	$20.43	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$42.82	$53.03
2nd 6 months	60.00	$20.43	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$42.82	$53.03
3rd 6 months	62.00	$21.11	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$43.50	$54.06
4th 6 months	65.50	$22.30	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$44.69	$55.84
5th 6 months	69.00	$23.49	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$45.88	$57.63
6th 6 months	72.50	$24.69	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$47.08	$59.42
7th 6 months	76.00	$25.88	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$48.27	$61.21
8th 6 months	80.00	$27.24	$7.96	$11.50	$0.50	$0.00	$2.26	$0.17	$0.00	$0.00	$49.63	$63.25

Special Calculation Note : Other is Training

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

The term "Millwright and Machine Erectors'" jurisdiction shall mean the unloading, hoisting, rigging, skidding, moving, dismantling, aligning, erecting, assembling, repairing, maintenance and adjusting of all

structures, processing areas either under cover, under ground or elsewhere, required to process material, handle, manufacture or service, be it powered or receiving power manually, by steam, gas, electricity, gasoline, diesel, nuclear, solar, water, air or chemically, and in industries such as and including, which are identified for the purpose of description, but not limited to, the following: woodworking plants; canning industries; steel mills; coffee roasting plants; paper and pulp; cellophane; stone crushing; gravel and sand washing and handling; refineries; grain storage and handling; asphalt plants; sewage disposal; water plants; laundries; bakeries; mixing plants; can, bottle and bag packing plants; textile mills; paint mills; breweries; milk processing plants; power plants; aluminum processing or manufacturing plants; and amusement and entertainment fields. The installation of mechanical equipment in atomic energy plants; installation of reactors in power plants; installation of control rods and equipment in reactors; and installation of mechanical equipment in rocket missile bases, launchers, launching gantry, floating bases, hydraulic escape doors and any and all component parts thereto, either assembled, semi-assembled or disassembled. The installation of, but not limited to, the following: setting-up of all engines, motors, generators, air compressors, fans, pumps, scales, hoppers, conveyors of all types, sizes and their supports; escalators; man lifts; moving sidewalks; hoists; dumb waiters; all types of feeding machinery; amusement devices; mechanical pin setters and spotters in bowling alleys; refrigeration equipment; and the installation of all types of equipment necessary and required to process material either in the manufacturing or servicing. The handling and installation of pulleys, gears, sheaves, fly wheels, air and vacuum drives, worm drives and gear drives directly or indirectly coupled to motors, belts, chains, screws, legs, boots, guards, booth tanks, all bin valves, turn heads and indicators, shafting, bearings, cable sprockets, cutting all key seats in new and old work, troughs, chippers, filters, calendars, rolls, winders, rewinders, slitters, cutters, wrapping machines, blowers, forging machines, rams, hydraulic or otherwise, planing, extruder, ball, dust collectors, equipment in meat packing plants, splicing of ropes and cables. The laying-out, fabrication and installation of protection equipment including machinery guards, making and setting of templates for machinery, fabrication of bolts, nuts, pans, drilling of holes for any equipment which the Millwrights install regardless of materials; all welding and burning regardless of type, fabrication of all lines, hose or tubing used in lubricating machinery installed by Millwrights; grinding, cleaning, servicing and any machine work necessary for any part of any equipment installed by the Millwrights; and the break-in and trial run of any equipment or machinery installed by the Millwrights. It is agreed the Millwrights shall use the layout tools and optic equipment necessary to perform their work.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter NE District Industrial Dock & Door

Change # : LCN01-2014fbCarpNEStatewide

Craft : Carpenter Effective Date : 03/05/2014 Last Posted : 03/05/2014 fringe 6.20

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter	$19.70		$5.05	$1.00	$0.15	$0.00	$0.00	$0.00	$0.00	$0.00	$25.90	$35.75
Trainee	Percent											
1st Year	60.00	$11.82	$5.05	$1.00	$0.15	$0.00	$0.00	$0.00	$0.00	$0.00	$18.02	$23.93
2nd Year	80.20	$15.80	$5.05	$1.00	$0.15	$0.00	$0.00	$0.00	$0.00	$0.00	$22.00	$29.90

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeymen to 1 Trainee

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING,

MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note : Industrial Dock and Door is the installation of overhead doors, roll up doors and dock leveling equipment

Details :
10/27/10 New Contract jc

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Pile Driver NE Zone P3

Change # : OCR01-2022sksLocNEZoneP3

Craft : Carpenter **Effective Date :** 06/15/2022 **Last Posted :** 06/15/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Pile Driver	$28.85		$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$51.22	$65.65
Diver	$43.28		$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$65.65	$87.29
Certified Welder	$29.90		$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$52.27	$67.22
Apprentice	Percent											
1st 6 months	60.00	$17.31	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$39.68	$48.34
2nd 6 months	60.00	$17.31	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$39.68	$48.34
3rd 6 months	62.00	$17.89	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$40.26	$49.20
4th 6 months	65.50	$18.90	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$41.27	$50.72
5th 6 months	69.00	$19.91	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$42.28	$52.23
6th 6 months	72.50	$20.92	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$43.29	$53.74
7th 6 months	76.00	$21.93	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$44.30	$55.26
8th 6 months	80.00	$23.08	$8.05	$11.50	$0.50	$0.00	$2.15	$0.17	$0.00	$0.00	$45.45	$56.99

Special Calculation Note : *Other is Training

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

STARK, WAYNE, CARROLL, TUSCARAWAS

Special Jurisdictional Note :

Details :

Pile Drivers duties shall include but not limited to: Pile driving, milling, fashioning, joining assembling, erecting, fastening, or dismantling of all material of wood, plastic, metal, fiber, cork and composition and all other substitute materials: pile driving, cutting, fitting and placing of lagging, and the handling, cleaning, erecting, installing and dismantling of machinery, equipment and erecting pre-engineered metal buildings.

Pile Drivers work but not limited to: unloading, assembling, erection, repairs, operation, signaling, dismantling and reloading all equipment that is used for pile driving including pule butts is defined as sheeting or scrap piling. Underwater work that may be required in connection with the installation of piling. The driver and his tender work as a team and shall arrive at their own financial arrangements with the contractor. Any configuration of wood, steel, concrete or composite that is jetted, driven or vibrated onto the ground by conventional pile driving equipment for the purpose of supporting a future load that may be permanent or temporary. The construction of all wharves and docks, including the fabrication and installation of floating docks. Driving bracing, plumbing, cutting off and capping of all piling whether wood, metal, pipe piling or composite, loading, unloading, erecting, framing, dismantling, moving and handling of pile driving equipment piling used in the construction and repair of all wharves, docks, piers, trestles, caissons, cofferdams and erection of all sea walls and breakwaters. All underwater and marine work on bulkheads, wharves, docks, shipyards, caissons, piers, bridges, pipeline, work, viaducts, marine cable and trestles, as well as salvage and reclamation work where divers are employed. Rate shall include carpenters, acoustic and ceiling installers, drywall installers, pile drivers and floorlayers.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Bricklayer Local 97 HevHwy A

Change # : LCN01-2022sksHvyHwy

Craft : Bricklayer **Effective Date :** 06/08/2022 **Last Posted :** 06/08/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason Bricklayer Sewer Water Works A	$31.40		$9.75	$8.30	$0.50	$0.00	$0.00	$0.00	$0.00	$0.00	$49.95	$65.65
Apprentice	Percent											
1st year	70.00	$21.98	$9.75	$8.30	$0.50	$0.00	$0.00	$0.00	$0.00	$0.00	$40.53	$51.52
2nd year	80.00	$25.12	$9.75	$8.30	$0.50	$0.00	$0.00	$0.00	$0.00	$0.00	$43.67	$56.23
3rd year	90.00	$28.26	$9.75	$8.30	$0.50	$0.00	$0.00	$0.00	$0.00	$0.00	$46.81	$60.94

Special Calculation Note : NOT FOR BUILDING CONSTRUCTION.

Ratio :

3 Journeymen to 1 Apprentice
6 Journeymen to 2 Apprentice
9 Journeymen to 3 Apprentice
12 Journeymen to 4 Apprentice
15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN

WERT, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

(A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.
(B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Bricklayer Local 97 HevHwy B

Change # : LCN01-2022sksHvyHwy

Craft : Bricklayer Effective Date : 06/08/2022 Last Posted : 06/08/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason Bricklayer Power Plants Tunnels Amusement Parks B	$32.39		$9.75	$8.30	$0.51	$0.00	$0.00	$0.00	$0.00	$0.00	$50.95	$67.15
Apprentice	**Percent**											
1st year	70.00	$22.67	$9.75	$8.30	$0.51	$0.00	$0.00	$0.00	$0.00	$0.00	$41.23	$52.57
2nd year	80.00	$25.91	$9.75	$8.30	$0.51	$0.00	$0.00	$0.00	$0.00	$0.00	$44.47	$57.43
3rd year	90.00	$29.15	$9.75	$8.30	$0.51	$0.00	$0.00	$0.00	$0.00	$0.00	$47.71	$62.29

Special Calculation Note : NOT FOR BUILDING CONSTRUCTION.

Ratio :

3 Journeymen to 1 Apprentice
6 Journeymen to 2 Apprentice
9 Journeymen to 2 Apprentice
12 Journeymen to 4 Apprentice
15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT,

TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

(A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.
(B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Statewide HevHwy

Change # : OCR01-2022sksCementHevHwy

Craft : Cement Mason Effective Date : 05/05/2022 Last Posted : 05/05/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	$32.49		$8.45	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$51.26	$67.50
Apprentice	Percent											
1st Year	70.00	$22.74	$8.45	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$41.51	$52.88
2nd Year	80.00	$25.99	$8.45	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$44.76	$57.76
3rd Year	90.00	$29.24	$8.45	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$48.01	$62.63

Special Calculation Note : Other $0.07 is for International Training Fund

Ratio :

1 Journeymen to 1 Apprentice
2 to 1 thereafter

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA*, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA*, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON*, GALLIA, GEAUGA*, GREENE, GUERNSEY, HAMILTON, HANCOCK*, HARDIN, HARRISON, HENRY*, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE*, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS*, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM*, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD*, WYANDOT

Special Jurisdictional Note : (A) Highway Construction, Sewer, Waterworks And Utility

Construction, Industrial & Building Site, Heavy
Construction, Airport Construction Or Railroad Construction Work, Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work, Waste & Water Plant, Water Treatment Facilities Construction.

*For Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work, Pollution Control, Sewer Plant, Waste & Water Plant, Water Treatment Facility Construction work in the following Counties: Ashtabula, Cuyahoga, Fulton, Geauga, Hancock, Henry, Lake, Lucas, Putnam and Wood Counties, those counties will use the Cement Mason Statewide Heavy Highway Exhibit B District 1 Wage Rate.

Details :
This rate replaces the previous Cement Mason Heavy Highway Statewide Rates (Exhibit A and Exhibit B rates), except for Cement Mason Statewide Heavy Highway Exhibit B Dist 1. sks

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason & Plasterer Local 109

Change # : LCN01-2022sksLoc109

Craft : Cement Effective Date : 06/01/2022 Last Posted : 06/01/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	$31.74		$9.09	$7.35	$0.70	$0.00	$4.74	$0.07	$0.00	$0.00	$53.69	$69.56
Plasterer	$30.61		$8.75	$7.35	$0.70	$0.00	$4.75	$0.07	$0.00	$0.00	$52.23	$67.53
Apprentice Cement Mason	Percent											
1st year	70.00	$22.22	$9.09	$7.35	$0.70	$0.00	$4.74	$0.07	$0.00	$0.00	$44.17	$55.28
2nd year	79.98	$25.39	$9.09	$7.35	$0.70	$0.00	$4.74	$0.07	$0.00	$0.00	$47.34	$60.03
3rd year	90.00	$28.57	$9.09	$7.35	$0.70	$0.00	$4.74	$0.07	$0.00	$0.00	$50.52	$64.80
Plasterer Apprentice												
1st year	67.53	$21.43	$8.75	$7.35	$0.70	$0.00	$4.75	$0.07	$0.00	$0.00	$43.05	$53.77
2nd year	77.17	$24.49	$8.75	$7.35	$0.70	$0.00	$4.75	$0.07	$0.00	$0.00	$46.11	$58.36
3rd year	86.80	$27.55	$8.75	$7.35	$0.70	$0.00	$4.75	$0.07	$0.00	$0.00	$49.17	$62.95

Special Calculation Note : Other is for International Training.

Ratio :

1 Journeymen to 1 Apprentice
5 Journeymen to 2 Apprentice
10 Journeyman to 3 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, HOLMES, MEDINA, PORTAGE, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :
Finishers when applying colorshake shall be paid an additional $2.00 per DAY.
Swing Scaffolds up to 50 feet shall be paid $0.25 above the Journeymen rate.
Swing Scaffolds over 50 feet shall be paid $0.35 above the Journeymen rate.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 540 Inside

Change # : LCN01-2023ibLoc540in

Craft : Electrical **Effective Date :** 01/11/2023 **Last Posted :** 01/11/2023

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Electrician	$36.28		$6.60	$10.50	$1.12	$3.63	$3.99	$1.20	$0.00	$0.00	$63.32	$81.46
Apprentice	Percent											
1st 1000 hrs	45.00	$16.33	$6.60	$0.00	$0.46	$0.00	$0.49	$0.49	$0.00	$0.00	$24.37	$32.53
2nd 1000 hrs	47.00	$17.05	$6.60	$0.00	$0.48	$0.00	$0.51	$0.51	$0.00	$0.00	$25.15	$33.68
3rd 1500 hrs	50.00	$18.14	$6.60	$2.63	$0.55	$1.45	$0.59	$0.59	$0.00	$0.00	$30.55	$39.62
4th 1500 hrs	60.00	$21.77	$6.60	$5.25	$0.66	$1.74	$0.71	$0.71	$0.00	$0.00	$37.44	$48.32
5th 1500 hrs	70.00	$25.40	$6.60	$7.88	$0.77	$2.03	$0.82	$0.82	$0.00	$0.00	$44.32	$57.01
6th 1500 hrs	80.00	$29.02	$6.60	$10.50	$0.88	$2.32	$0.94	$0.94	$0.00	$0.00	$51.20	$65.72

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund. Vacation contribution is equal to 8% of the gross weekly wages.

Ratio :

The first person assigned to any job site shall be a Journeyman Wireman. Ratio thereafter:

1-3 Journeymen to 2 Apprentices
4 to 6 Journeymen up to 4 Apprentices
7 to 9 Journeymen up to 6 Apprentices

Jurisdiction (* denotes special jurisdictional note) :
CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

Special Jurisdictional Note : Carroll County: North half including; Fox, Harrison, Rose and Washington Townships.
Columbiana County: Knox Township only.
Mahoning County: Smith Township only.
Tuscarawas County: That portion North of Auburn, Clay, Rush and York Townships.
Wayne County: That portion south of Baughman, Chester, Green and WayneTownships.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 540 Inside Lt Commercial Northern

Change # : LCN01-2023ibLoc540in

Craft : Electrical **Effective Date :** 01/11/2023 **Last Posted :** 01/11/2023

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Electrician	$36.28		$6.60	$10.50	$1.12	$3.63	$3.99	$1.20	$0.00	$0.00	$63.32	$81.46
CE-3 12,001-14,000 Hrs	$27.59		$6.51	$0.00	$0.82	$0.00	$0.83	$0.83	$0.00	$0.10	$36.68	$50.47
CE-2 10,001-12,000 Hrs	$21.68		$6.51	$0.00	$0.82	$0.00	$0.65	$0.65	$0.00	$0.10	$30.41	$41.25
CE-1 8,001-10,000 Hrs	$19.71		$6.51	$0.00	$0.82	$0.00	$0.59	$0.59	$0.00	$0.10	$28.32	$38.18
CW-4 6,001-8,000 Hrs	$17.74		$6.51	$0.00	$0.82	$0.00	$0.53	$0.53	$0.00	$0.10	$26.23	$35.10
CW-3 4,001-6,000 Hrs	$15.77		$6.51	$0.00	$0.82	$0.00	$0.47	$0.47	$0.00	$0.10	$24.14	$32.03
CW-2 2,001-4,000 Hrs	$14.78		$6.51	$0.00	$0.82	$0.00	$0.44	$0.44	$0.00	$0.10	$23.09	$30.48
CW-1 0-2,000 Hrs	$13.80		$6.51	$0.00	$0.82	$0.00	$0.41	$0.41	$0.00	$0.10	$22.05	$28.95
Apprentice	**Percent**											
1st 1000 hrs	45.00	$16.33	$6.60	$0.00	$0.46	$0.00	$0.49	$0.49	$0.00	$0.00	$24.37	$32.53
2nd 1000 hrs	47.00	$17.05	$6.60	$0.00	$0.48	$0.00	$0.51	$0.51	$0.00	$0.00	$25.15	$33.68
3rd 1500 hrs	50.00	$18.14	$6.60	$2.63	$0.55	$1.45	$0.59	$0.59	$0.00	$0.00	$30.55	$39.62
4th 1500 hrs	60.00	$21.77	$6.60	$5.25	$0.66	$1.74	$0.71	$0.71	$0.00	$0.00	$37.44	$48.32
5th 1500 hrs	70.00	$25.40	$6.60	$7.88	$0.77	$2.03	$0.82	$0.82	$0.00	$0.00	$44.32	$57.01
6th 1500 hrs	80.00	$29.02	$6.60	$10.50	$0.88	$2.32	$0.94	$0.94	$0.00	$0.00	$51.20	$65.72

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund

Ratio :

1 to 3 Journeymen to 2 Apprentices
4 to 6 Journeymen up to 4 Apprentices
7 to 9 Journeymen up to 6 Apprentices

Jurisdiction (* denotes special jurisdictional note) :
CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

Construction Electrician and Construction Wireman
Ratio
There shall be a minimum ratio of one inside Journeyman Wireman to every (4) employees of different classifications per jobsite. An Inside Journeyman Wireman is required on the project as the fifth (5th) worker or when apprentices are used.

Special Jurisdictional Note : Carroll County: North half including; Fox, Harrison, Rose and Washington Townships.
Columbiana County: Knox Township only.
Mahoning County: Smith Township only.
Tuscarawas County: That portion North of Auburn, Clay, Rush and York Townships.
Wayne County: That portion south of Baughman, Chester, Green, Wayne and Wooster Townships.

The scope of work for the light commercial agreement shall apply to the following small medical clinics, stand-alone doctor and dentist offices with up to 600 amp service (not attached to a hospital), gas stations/convenience stores, fast food restaurants and franchised chain restaurants including independent bars and taverns, places of worship, funeral homes, nursing homes, assisted living facilities and day-care facilities under 15,000 sq ft, small office, retail/wholesale facilities under 15,000 sq ft with less than 10 units attached, storage units, car washes, express hotels and motels (4 stories or less) without conference or restaurants facilities, residential units (subject to Davis Bacon Rates) small stand-alone manufacturing facilities when free standing and not part of a larger facility (less than 15,000 sq ft) solar projects (500 panels or less) unless other wise covered under this agreement, lighting retrofits (when not associated with remodels involving branch re-circuiting) Lighting retrofits shall be defined as the changing of lamps and ballasts in existing light fixtures and shall also include the one for one replacement of existing fixtures.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 540 Voice Data Video

Change # : LCN01-2022sksLoc540VDV

Craft : Voice Data Video Effective Date : 08/29/2022 Last Posted : 08/26/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Electrical Installer Technician	$23.26		$6.50	$4.79	$0.58	$2.33	$2.07	$0.77	$0.00	$0.00	$40.30	$51.93
Cable Puller	$13.26		$6.50	$0.00	$0.30	$0.00	$0.40	$0.40	$0.00	$0.00	$20.86	$27.49
Apprentice Starting Prior to 08/01/2020												
6th Step 90%	$20.93		$6.50	$4.79	$0.51	$1.67	$2.07	$0.68	$0.00	$0.00	$37.15	$47.61
Apprentice Starting After 08/01/2020	**Percent**											
1st Step	60.00	$13.96	$6.50	$0.00	$0.31	$0.00	$1.24	$0.42	$0.00	$0.00	$22.43	$29.40
2nd Step	65.00	$15.12	$6.50	$3.11	$0.37	$1.21	$1.35	$0.49	$0.00	$0.00	$28.15	$35.71
3rd Step	75.00	$17.44	$6.50	$3.59	$0.42	$1.40	$1.55	$0.57	$0.00	$0.00	$31.48	$40.20
4th Step	85.00	$19.77	$6.50	$4.07	$0.48	$1.58	$1.76	$0.64	$0.00	$0.00	$34.80	$44.69

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund.

VACATION PAY - For Journeymen is 10% of wages and 8% for Apprentices.

Ratio :

1-3 Journeyman to 2 Apprentice
4-6 Journeyman to 4 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

** Exception - When fire alarm falls within the scope of this addendum, Cable Pullers can be used to aid in test and be the 2nd Teledata employee on the job

Special Jurisdictional Note : Carroll County includes the following townships: North half including Fox, Harrison, Rose and Washington. Tuscarawas County includes the following townships: The

portion North of Auburn, Clay, Rush and York. Wayne County includes the following townships: The portion South of Baughman, Chester, Green, and Wayne. Columbiana County includes Knox township. Mahoning County includes Smith township.

Details :

CABLE PULLERS - are for the installation of cable from one termination point to another.

The following work is EXCLUDED from the Teledata Technician work scope:

* - Installation of computer systems in industrial applications such as assembly lines, robotics, computer controller manufacturing systems.
* - Installation of conduit and/ or raceways shall be installed by Inside Wireman . On sites where there is no Inside Wireman employed, the Teledata Technician may install raceway, or conduit not greater than 10 feet.
* - Fire Alarm work on all new construction sites or wherever the fire alarm system is installed in conduit.
* - All HVAC control work.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 High Tension Pipe Type Cable

Change # : LCN01-2022ibLoc7

Craft : Lineman Effective Date : 01/03/2023 Last Posted : 12/28/2022

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Lineman	$47.21	$7.00	$1.42	$0.47	$0.00	$11.33	$0.60	$0.00	$0.00	$68.03	$91.63
Certified Lineman Welder	$47.21	$7.00	$1.42	$0.47	$0.00	$11.33	$0.60	$0.00	$0.00	$68.03	$91.63
Certified Cable Splicer	$47.21	$7.00	$1.42	$0.47	$0.00	$11.33	$0.60	$0.00	$0.00	$68.03	$91.63
Operator A	$42.31	$7.00	$1.27	$0.42	$0.00	$10.15	$0.60	$0.00	$0.00	$61.75	$82.90
Operator B	$37.47	$7.00	$1.12	$0.37	$0.00	$8.99	$0.60	$0.00	$0.00	$55.55	$74.28
Operator C	$30.14	$7.00	$0.90	$0.30	$0.00	$7.23	$0.60	$0.00	$0.00	$46.17	$61.24
Groundman 0-12 months Exp	$23.61	$7.00	$0.71	$0.24	$0.00	$5.67	$0.60	$0.00	$0.00	$37.83	$49.64
Groundman 0-12 months Exp w/CDL	$25.97	$7.00	$0.78	$0.26	$0.00	$6.23	$0.60	$0.00	$0.00	$40.84	$53.82
Groundman 1 yr or more	$25.97	$7.00	$0.78	$0.26	$0.00	$6.23	$0.60	$0.00	$0.00	$40.84	$53.82
Groundman 1 yr or more w/CDL	$30.69	$7.00	$0.92	$0.31	$0.00	$7.37	$0.60	$0.00	$0.00	$46.89	$62.24
Equipment Mechanic A	$37.47	$7.00	$1.12	$0.37	$0.00	$8.99	$0.60	$0.00	$0.00	$55.55	$74.28
Equipment Mechanic B	$33.80	$7.00	$1.01	$0.34	$0.00	$8.11	$0.60	$0.00	$0.00	$50.86	$67.76
Equipment Mechanic C	$30.14	$7.00	$0.90	$0.30	$0.00	$7.23	$0.60	$0.00	$0.00	$46.17	$61.24
X-Ray Technician	$47.21	$7.00	$1.42	$0.47	$0.00	$11.33	$0.60	$0.00	$0.00	$68.03	$91.63

Apprentice	Percent											
1st 1000 hrs	60.00	$28.33	$7.00	$0.85	$0.28	$0.00	$6.80	$0.60	$0.00	$0.00	$43.86	$58.02
2nd 1000 hrs	65.00	$30.69	$7.00	$0.92	$0.31	$0.00	$7.37	$0.60	$0.00	$0.00	$46.89	$62.23
3rd 1000 hrs	70.00	$33.05	$7.00	$0.99	$0.33	$0.00	$7.93	$0.60	$0.00	$0.00	$49.90	$66.42
4th 1000 hrs	75.00	$35.41	$7.00	$1.06	$0.35	$0.00	$8.50	$0.60	$0.00	$0.00	$52.92	$70.62
5th 1000 hrs	80.00	$37.77	$7.00	$1.13	$0.38	$0.00	$9.06	$0.60	$0.00	$0.00	$55.94	$74.82
6th 1000 hrs	85.00	$40.13	$7.00	$1.20	$0.40	$0.00	$9.63	$0.60	$0.00	$0.00	$58.96	$79.02
7th 1000 hrs	90.00	$42.49	$7.00	$1.27	$0.42	$0.00	$10.20	$0.60	$0.00	$0.00	$61.98	$83.22

Special Calculation Note : Other is Health Retirement Account

Operator "A"
John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater then 25 tons and less than 45 tons).

Operator "B"
Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger- wheeled or tracked, all Tension wire Stringing equipment.

Operator "C"
Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

*All Operators of cranes 45 ton or larger shall be paid the journeyman rate of pay. $0.30 is for Health Retirement Account.

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON,

WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

Heli - Arc Welding will be paid $.30 above Journeyman rate. Additional compensation of 10% over the Journeyman Lineman and Journeyman Technician for performing work on structures outside of buildings such as water towers, smoke stacks, radio and television towers, more than 75' above the ground.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 Outside Utility Power

Change # : LCN01-2022ibLoc7

Craft : Lineman Effective Date : 01/03/2023 Last Posted : 12/28/2022

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Lineman	$44.73	$7.00	$1.34	$0.45	$0.00	$10.74	$0.60	$0.00	$0.00	$64.86	$87.22
Substation Technician	$44.73	$7.00	$1.34	$0.45	$0.00	$10.74	$0.60	$0.00	$0.00	$64.86	$87.22
Cable Splicer	$46.84	$7.00	$1.41	$0.47	$0.00	$11.24	$0.60	$0.00	$0.00	$67.56	$90.98
Operator A	$40.11	$7.00	$1.20	$0.40	$0.00	$9.63	$0.60	$0.00	$0.00	$58.94	$78.99
Operator B	$35.47	$7.00	$1.06	$0.35	$0.00	$8.51	$0.60	$0.00	$0.00	$52.99	$70.72
Operator C	$28.50	$7.00	$0.86	$0.29	$0.00	$6.84	$0.60	$0.00	$0.00	$44.09	$58.34
Groundman 0-12 months Exp	$22.37	$7.00	$0.67	$0.22	$0.00	$5.37	$0.60	$0.00	$0.00	$36.23	$47.42
Groundman 0-12 months Exp w/CDL	$24.60	$7.00	$0.74	$0.25	$0.00	$5.90	$0.60	$0.00	$0.00	$39.09	$51.39
Groundman 1 yr or more	$24.60	$7.00	$0.74	$0.25	$0.00	$5.90	$0.60	$0.00	$0.00	$39.09	$51.39
Groundman 1 yr or more w/CDL	$29.07	$7.00	$0.87	$0.29	$0.00	$6.98	$0.60	$0.00	$0.00	$44.81	$59.35
Equipment Mechanic A	$35.47	$7.00	$1.06	$0.35	$0.00	$8.51	$0.60	$0.00	$0.00	$52.99	$70.72
Equipment Mechanic B	$31.99	$7.00	$0.96	$0.32	$0.00	$7.68	$0.60	$0.00	$0.00	$48.55	$64.54
Equipment Mechanic C	$28.50	$7.00	$0.86	$0.29	$0.00	$6.84	$0.60	$0.00	$0.00	$44.09	$58.34
Line Truck w/uuger	$31.51	$7.00	$0.95	$0.32	$0.00	$7.56	$0.60	$0.00	$0.00	$47.94	$63.70
Apprentice	**Percent**										

1st 1000 hrs	60.00	$26.84	$7.00	$0.81	$0.27	$0.00	$6.44	$0.60	$0.00	$0.00	$41.96	$55.38
2nd 1000 hrs	65.00	$29.07	$7.00	$0.87	$0.29	$0.00	$6.98	$0.60	$0.00	$0.00	$44.81	$59.35
3rd 1000 hrs	70.00	$31.31	$7.00	$0.94	$0.31	$0.00	$7.51	$0.60	$0.00	$0.00	$47.67	$63.33
4th 1000 hrs	75.00	$33.55	$7.00	$1.01	$0.34	$0.00	$8.05	$0.60	$0.00	$0.00	$50.55	$67.32
5th 1000 hrs	80.00	$35.78	$7.00	$1.17	$0.36	$0.00	$8.59	$0.60	$0.00	$0.00	$53.50	$71.40
6th 1000 hrs	85.00	$38.02	$7.00	$1.14	$0.38	$0.00	$9.12	$0.60	$0.00	$0.00	$56.26	$75.27
7th 1000 hrs	90.00	$40.26	$7.00	$1.21	$0.40	$0.00	$9.66	$0.60	$0.00	$0.00	$59.13	$79.26

Special Calculation Note : Other is Health Retirement Account
Operator "A"
John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater then 25 tons and less than 45 tons).

Operator "B"
Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger- wheeled or tracked, all Tension wire Stringing equipment.

Operator "C"
Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

Ratio :

(1) Journeyman Lineman to (1) Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note : 0.30 is for Health Retirement Account.

Details :
Heli - Arc Welding will be paid $.30 above Journeyman rate. Additional compensation of 10% over the

Journeyman Lineman and Journeyman Technician for performing work on structures outside of buildings such as water towers, smoke stacks, radio and television towers, more than 75' above the ground.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 Outside (North Central Ohio)

Change # : LCN01-2022sksLoc71CentralOhio

Craft : Lineman Effective Date : 08/04/2022 Last Posted : 08/04/2022

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Lineman	$41.52	$7.00	$1.25	$0.42	$0.00	$7.89	$0.06	$0.00	$0.00	$58.14	$78.90
Traffic Signal & Lighting Journeyman	$39.93	$7.00	$1.20	$0.40	$0.00	$7.59	$0.06	$0.00	$0.00	$56.18	$76.15
Equipment Operator	$36.47	$7.00	$1.09	$0.36	$0.00	$6.93	$0.06	$0.00	$0.00	$51.91	$70.15
Groundman 0-12 months (W/O CDL)	$22.11	$7.00	$0.66	$0.22	$0.00	$4.20	$0.06	$0.00	$0.00	$34.25	$45.31
Groundman 0-12 months (W/CDL) plus	$24.16	$7.00	$0.72	$0.24	$0.00	$4.59	$0.06	$0.00	$0.00	$36.77	$48.85
Groundsman greater than 1 Year (W/CDL)	$26.21	$7.00	$0.79	$0.26	$0.00	$4.98	$0.06	$0.00	$0.00	$39.30	$52.41
Traffic Signal Apprentices											
1st 1,000 hours	$23.96	$7.00	$0.72	$0.24	$0.00	$4.55	$0.06	$0.00	$0.00	$36.53	$48.51
2nd 1,000 hours	$25.95	$7.00	$0.78	$0.26	$0.00	$4.93	$0.06	$0.00	$0.00	$38.98	$51.96
3rd 1,000 hours	$27.95	$7.00	$0.84	$0.28	$0.00	$5.31	$0.06	$0.00	$0.00	$41.44	$55.42
4th 1,000 hours	$29.95	$7.00	$0.90	$0.30	$0.00	$5.69	$0.06	$0.00	$0.00	$43.90	$58.87
5th 1,000 hours	$31.94	$7.00	$0.96	$0.32	$0.00	$6.07	$0.06	$0.00	$0.00	$46.35	$62.32
6th 1,000 hours	$35.94	$7.00	$1.08	$0.36	$0.00	$6.83	$0.06	$0.00	$0.00	$51.27	$69.24
Apprentice Lineman	**Percent**										

1st 1,000 Hours	60.00	$24.91	$7.00	$0.75	$0.25	$0.00	$4.73	$0.06	$0.00	$0.00	$37.70	$50.16
2nd 1,000 Hours	65.00	$26.99	$7.00	$0.81	$0.27	$0.00	$5.13	$0.06	$0.00	$0.00	$40.26	$53.75
3rd 1,000 Hours	70.00	$29.06	$7.00	$0.87	$0.29	$0.00	$5.52	$0.06	$0.00	$0.00	$42.80	$57.34
4th 1,000 Hours	75.00	$31.14	$7.00	$0.93	$0.31	$0.00	$5.92	$0.06	$0.00	$0.00	$45.36	$60.93
5th 1,000 Hours	80.00	$33.22	$7.00	$1.00	$0.33	$0.00	$6.31	$0.06	$0.00	$0.00	$47.92	$64.52
6th 1,000 Hours	85.00	$35.29	$7.00	$1.06	$0.35	$0.00	$6.71	$0.06	$0.00	$0.00	$50.47	$68.12
7th 1,000 Hours	90.00	$37.37	$7.00	$1.12	$0.37	$0.00	$7.10	$0.06	$0.00	$0.00	$53.02	$71.70

Special Calculation Note : Other is Safety & Education Fund.

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE, STARK, SUMMIT, WAYNE

Special Jurisdictional Note :

Details :

A groundman when directed shall assist a Journeyman in the performance of his/her work on the ground, including the use of hand tools. A Groundman under no circumstances shall climb poles, towers,ladders, or work from an elevated platform or bucket truck.

No more than three (3) Groundmen shall work alone. Jobs with more that three Groundmen shall be supervised by a Groundcrew Foreman, Journeyman Lineman, Journeyman Traffic Signal Technician or an Equipment Operator.

Scope of Work: installation and maintenance of highway and street lighting, highway and street sign lighting, electronic message boards and traffic control systems, camera systems, traffic signal work, substation and line construction including overhead and underground projects for private and industrial work as in accordance with the IBEW Constitution. This Agreement includes the operation of all tools and equipment necessary for the installation of the above projects.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 Voice Data Video Outside

Change # : LCR01-2017fbLoc71VDV

Craft : Voice Data Video Effective Date : 10/18/2017 Last Posted : 10/18/2017

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Installer Technician I	$23.46	$5.50	$0.70	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$29.96	$41.69
Installer Technician II	$22.37	$5.50	$0.67	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$28.84	$40.03
Equipment Operator I	$22.37	$5.50	$0.67	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$28.84	$40.03
Equipment Operator II	$18.43	$5.50	$0.55	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$24.78	$33.99
Installer /Repair Outside	$22.37	$5.50	$0.67	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$28.84	$40.03
Ground Driver V/CDL	$15.83	$5.50	$0.47	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$22.10	$30.01
Groundman	$13.24	$5.50	$0.40	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$19.44	$26.06
Cable Splicer	$23.46	$5.50	$0.70	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$29.96	$41.69

Special Calculation Note :

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :
Cable Splicer: Inspect and test lines or cables, analyze results, and evaluate transmission characteristics. Cover conductors with insulation or seal splices with moisture-proof covering. Install, splice, test, and repair cables using tools or mechanical equipment. This will include the splicing of

fiber.

Journeyman Technician I: Must know all aspects of telephone and cable work. This is to include aerial, underground, and manhole work. Must know how to climb and run bucket. Must have all the tools required to perform these tasks. Must be able to be responsible for the safety of the crew at all times. Must also have CDL license and have at least 5 years experience.

.staller/Repairman: Perform tasks of repairing, installing, and testing phone and CATV services.

Technician II: Have at least three years of telephone and CATV experience. Must have the knowledge of underground, aerial, and manhole work. Must be able to climb and operate bucket. Must have CDL. Must have all tools needed to perform these tasks.

Equipment Operator I: Able to operate a digger derrick or bucket truck. Have at least 5 years of experience and must have a valid CDL license.

Equipment Operator II: Able to operate a digger derrick or bucket truck. Have at least 3 years of experience and must have a valid CDL license.

Groundman W/CDL: Must have a valid CDL license and be able to perform tasks such as: climbing poles, pulling downguys, making up material, and getting appropriate tools for the job. Must have at least 5 year's experience.

Groundman: Perform tasks such as: climbing poles, pulling downguys, making up material, and getting appropriate tools for the job. Experience 0-5 years.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Elevator Local 45

Change # : LCN01-2023ibLoc45

Craft : Elevator Effective Date : 02/01/2023 Last Posted : 02/01/2023

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Elevator Mechanic	$55.63		$16.07	$10.76	$0.70	$4.45	$9.80	$2.09	$0.00	$0.00	$99.50	$127.32
Assistant. Mechanic	$44.50		$16.07	$10.76	$0.70	$3.56	$9.80	$1.66	$0.00	$0.00	$87.05	$109.30
Helper	$38.94		$16.07	$10.76	$0.70	$3.12	$9.80	$1.47	$0.00	$0.00	$80.86	$100.33
Apprentice	**Percent**											
Apprentice												
0-6 months Probation	50.00	$27.82	$0.00	$0.00	$0.00	$1.67	$0.00	$0.00	$0.00	$0.00	$29.48	$43.39
1st year	55.00	$30.60	$16.07	$10.76	$0.70	$1.84	$9.80	$1.15	$0.00	$0.00	$70.92	$86.21
2nd year	65.00	$36.16	$16.07	$10.76	$0.70	$2.17	$9.80	$1.36	$0.00	$0.00	$77.02	$95.10
3rd year	70.00	$38.94	$16.07	$10.76	$0.70	$2.34	$9.80	$1.47	$0.00	$0.00	$80.08	$99.55
4th year	80.00	$44.50	$16.07	$10.76	$0.70	$2.67	$9.80	$1.66	$0.00	$0.00	$86.16	$108.42

Special Calculation Note : *Other is Holiday Pay

Ratio :

The total number of Helpers & Apprentices employed shall not exceed the number of Mechanics on any one job, except on jobs where (2) teams or more are working, (1) extra Helper or Apprentice may be employed for the first (2) teams and an extra Helper or Apprentice for each additional (3) teams.

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA, COSHOCTON, HARRISON, HOLMES, MAHONING, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Vacation 6%/under 5 years based on regular hourly rate for all hours worked. 8%/over 5 years based on regular hourly rate for all hours worked.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Glazier Local 1162

Change # : LCN01-2022sksLoc1162

Craft : Glazier Effective Date : 07/08/2022 Last Posted : 07/08/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Glazier	$29.02		$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$43.04	$57.55
Apprentice	Percent											
1st 6 months	55.00	$15.96	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$29.98	$37.96
2nd 6 months	60.00	$17.41	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$31.43	$40.14
3rd 6 months	65.00	$18.86	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$32.88	$42.31
4th 6 months	70.00	$20.31	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$34.33	$44.49
5th 6 months	75.02	$21.77	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.79	$46.68
6th 6 months	80.00	$23.22	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$37.24	$48.84
7th 6 months	85.00	$24.67	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$38.69	$51.02
8th 6 months	90.00	$26.12	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.14	$53.20

Special Calculation Note :

Ratio :

1 Journeyman to 1 Apprentice
2 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, HOLMES, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Add $1.25 per hour for High Pay which is all work that requires the employee be supported by equipment which hangs or suspends from the roof of a building or structure including all repelling .

Prevailing Wage Rate
Skilled Crafts

Name of Union: Ironworker Local 550

Change # : LCN01-2022sksLoc550

Craft : Ironworker **Effective Date :** 05/01/2022 **Last Posted :** 04/27/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Ironworker	$30.97		$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$52.87	$68.35
Apprentice	Percent											
1st 6 months	65.00	$20.13	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$42.03	$52.10
2nd 6 months	69.00	$21.37	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$43.27	$53.95
3rd 6 months	73.00	$22.61	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$44.51	$55.81
4th 6 months	77.00	$23.85	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$45.75	$57.67
5th 6 months	81.00	$25.09	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$46.99	$59.53
6th 6 months	85.03	$26.33	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$48.23	$61.40
7th 6 months	90.00	$27.87	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$49.77	$63.71
8th 6 months	95.00	$29.42	$8.98	$9.02	$0.76	$0.00	$2.73	$0.41	$0.00	$0.00	$51.32	$66.03

Special Calculation Note : OTHER IS: JOURNEYMAN UPGRADE AND WELLNESS FUND.

Ratio :

4 Journeymen to 1 Apprentice
1 Journeymen to 1 Apprentice, spinning of cable for suspension bridge
1 Journeymen to 1 Apprentice, ornamental work
2 Journeymen to 1 Apprentice, reinforcing work
1 Journeymen to 2 Apprentice, roadway

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA*, COSHOCTON, HOLMES*, HURON, MAHONING*, MEDINA*, PORTAGE*, RICHLAND, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : The jurisdictional line between Local 17 and Local 550 is determined as follows: All territory North of Old Route 224 line to be within the jurisdiction of Local 17. All territory South of Old Route 224 line is to be the jurisdiction of Local 550, except for everything within the City limits of Barberton which shall be under the jurisdiction of Local 17.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Ironworker Local 550 Glass & Curtain Wall

Change # : LCN01-2017fbLoc550

Craft : Ironworker Effective Date : 07/01/2017 Last Posted : 06/28/2017

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Ironworker Glass & Curtain Wall	$22.00		$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$36.89	$47.89
pprentice	Percent											
1st 6 months	60.00	$13.20	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$28.09	$34.69
2nd 6 months	65.00	$14.30	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$29.19	$36.34
3rd 6 months	70.00	$15.40	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$30.29	$37.99
4th 6 months	75.00	$16.50	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$31.39	$39.64
5th 6 months	80.00	$17.60	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$32.49	$41.29
6th 6 months	85.00	$18.70	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$33.59	$42.94
7th 6 months	90.00	$19.80	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$34.69	$44.59
8th 6 months	95.00	$20.90	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$35.79	$46.24

Special Calculation Note :

Ratio :

1 Apprentice to 1 Journeymen

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA*, COSHOCTON, HOLMES, HURON*, MAHONING*, MEDINA*, PORTAGE*, RICHLAND, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : The jurisdictional line between Locals 17 and 550 is determined as follows: All territory North of Old Route 224 line is to be within the jurisdiction of Local 17. All territory South of Old Route 224 line is to be the jurisdiction of Local 550, except for everything within the City limits of Barberton which shall be under the jurisdiction of Local 17.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Labor HevHwy 2

Change # : LCN01-2022sksLaborHevHwy2

Craft : Laborer Group 1 **Effective Date :** 06/01/2022 **Last Posted :** 06/01/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Laborer Group 1	$34.95		$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$47.15	$64.62
Group 2	$35.12		$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$47.32	$64.88
Group 3	$35.45		$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$47.65	$65.37
Group 4	$35.90		$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$48.10	$66.05
Watch Person	$27.25		$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$39.45	$53.08
Apprentice	Percent											
0-1000 hrs	60.00	$20.97	$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$33.17	$43.66
1001-2000 hrs	70.02	$24.47	$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$36.67	$48.91
2001-3000 hrs	80.00	$27.96	$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$40.16	$54.14
3001-4000 hrs	90.00	$31.46	$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$43.66	$59.38
More Than 4000 hrs	100.00	$34.95	$7.70	$3.95	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$47.15	$64.62

Special Calculation Note : Watchman has no Apprentices. Tunnel Laborer rate with air-pressurized add $1.00 to the above wage rate.

Ratio :

1 Journeymen to 1 Apprentice
3 Journeymen to 1 Apprentice thereafter

Jurisdiction (* denotes special jurisdictional note) :
ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL, WOOD

Special Jurisdictional Note : Hod Carriers and Common Laborers - Heavy, Highway, Sewer, Waterworks, Utility, Airport, Railroad, Industrial and Building Site, Sewer Plant, Waste Water Treatment Facilities Construction

Details :
Group 1

Laborer (Construction); Plant Laborer or Yardman, Right-of-way Laborer, Landscape Laborer, Highway Lighting Worker, Signalization Worker, (Swimming) Pool Construction Laborer, Utility Man, *Bridge Man, Handyman, Joint Setter, Flagperson, Carpenter Helper, Waterproofing Laborer, Slurry Seal, Seal Coating, Surface Treatment or Road Mix Laborer, Riprap Laborer & Grouter, Asphalt Laborer, Dump Man (batch trucks), Guardrail & Fence Installer, Mesh Handler & Placer, Concrete Curing Applicator, Scaffold Erector, Sign Installer, Hazardous Waste (level D), Diver Helper, Zone Person and Traffic Control.

*Bridge Man will perfomr work as per the October 31, 1949, memorandum on concrete forms, byand between the United Brotherhood of Caprpenters and Joiners of Americ and the Laborers' International Union of North America, which states in; "the moving, cleaning, oiling and carrying to the next point of erection, and the stripping of forms which are not to be re-used, and forms on all flat arch work shall be done by memebers of the Laborers' International Union of North America."

Group 2
Asphalt Raker, Screwman or Paver, Concrete Puddler, Kettle Man (pipeline), All Machine-Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Skid Steer, Sheeting & Shoring Person, Surface Grinder Person, Screedperson, Water Blast, Hand Held Wand, Power Buggy or Power Wheelbarrow, Paint Striper, Plastic fusing Machine Operator, Rodding Machine Operator, Pug Mill Operator, Operator of All Vacuum Devices Wet or Dry, Handling of all Pumps 4 inches and under (gas, air or electric), Diver, Form Setter, Bottom Person, Welder Helper (pipeline), Concrete Saw Person, Cutting with Burning Torch, Pipe Layer, Hand Spiker (railroad), Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning). Tunnel Laborer (without air),Caisson, Cofferdam (below 25 feet deep), Air Track and Wagon Drill, Sandblaster Nozzle Person, Hazardous Waste (level B), ***Lead Abatement, Hazardous Waste (level C)

***Includes the erecting of structures for the removal, including the encapsulation and containment of Lead abatement process.

Group 3
Blast and Powder Person, Muckers will be defined as shovel men working directly with the miners, Wrencher (mechanical joints & utility pipeline), Yarner, Top Lander, Hazardous Waste (level A), Concrete Specialist, Curb Setter and Cutter, Grade Checker, Concrete Crew in Tunnels. Utility pipeline Tappers, Waterline, Caulker, Signal Person will receive the rate equal to the rate paid the Laborer classification for which the Laborer is signaling.

Group 4
Miner,Welder, Gunite Nozzle Person

A.) The Watchperson shall be responsible to patrol and maintain a safe traffic zone including but not limited to barrels, cones, signs, arrow boards, message boards etc.
The responsibility of a watchperson is to see that the equipment, job and office trailer etc. are secure.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Labor Local 1015 Building

Change # : LCN01-2022sksLoc1015

Craft : Laborer Effective Date : 09/08/2022 Last Posted : 09/28/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Laborer Group 1	$30.72		$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$42.87	$58.23
Group 2	$31.72		$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$43.87	$59.73
Group 3	$32.72		$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$44.87	$61.23
Group 4	$32.67		$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$44.82	$61.16
Group 5	$23.76		$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$35.91	$47.79
Apprentice	Percent											
0-1000 hrs	60.00	$18.43	$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$30.58	$39.80
1001-2000 hrs	70.00	$21.50	$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$33.65	$44.41
2001-3000 hrs	80.00	$24.58	$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$36.73	$49.01
3001-4000 hrs	90.00	$27.65	$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$39.80	$53.62
More than 4000 hrs	100.00	$30.72	$7.70	$3.95	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$42.87	$58.23

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeyman to 1 Apprentice
4 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, STARK, WAYNE

Special Jurisdictional Note :

Details :
Group 1
Building & Construction Laborer, Signalman, Flagman, Tool Cribman, Carpenter Tender, Finisher Tender, Concrete Handler, Utility Construction Laborer, Guard Rail Erectors, Hazardous Waste (Level D)

Group 2
Bottom Man, Scaffold Builder, Tunnel laborer, Pipe Layer, Air and Power Driven Tools, Burner on Demolition Work, Swinging Scaffold, Mucker, Caisson Worker, Cofferdam Worker, Powder Men and

Dynamite Blaster, Creosote Worker, Form Setter, Plasterer Tender, Hod Carrier Laser Beam Set-up Man, All confined space work, furnaces, pickel tubs, acid-pits, and Hazardous Waste Level (C)

Group 3
Mason Tender, Mortar Mixer, Stonemason Tender,skid-loader, Hazardous Waste Level (B)

Group 4
Gunnite Operator, Hazardous Waste Level (A)

Group 5
Watchman

Prevailing Wage Rate
Skilled Crafts

Name of Union: Operating Engineers - Building Local 18 - Zone III

Change # : LCN01-2022sksLoc18zone3

Craft : Operating Engineer Effective Date : 05/25/2022 Last Posted : 05/25/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Operator Group A	$40.19		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.44	$76.53
Operator Group B	$40.07		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.32	$76.35
Operator Group C	$39.03		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$55.28	$74.79
Operator Group D	$37.85		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$54.10	$73.03
Operator Group E	$32.39		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$48.64	$64.83
Master Mechanic	$40.44		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.69	$76.91
Cranes & Mobile Concrete Pumps 150'-180'	$40.69		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.94	$77.28
Cranes & Mobile Concrete Pumps 180'-249'	$41.19		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$57.44	$78.03
Cranes & Mobile Concrete Pumps 249' and over	$41.44		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$57.69	$78.41
Apprentice	Percent											
1st Year	50.00	$20.09	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$36.35	$46.39
2nd Year	60.00	$24.11	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$40.36	$52.42
3rd Year	70.00	$28.13	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$44.38	$58.45
4th Year	80.00	$32.15	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$48.40	$64.48
Field Mechanic Trainee												
1st Year	50.00	$20.09	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$36.35	$46.39
2nd Year	60.00	$24.11	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$40.36	$52.42

3rd Year	70.00	$28.13	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$44.38	$58.45
4th Year	80.00	$32.15	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$48.40	$64.48

Special Calculation Note : Other: Education & Safety $0.09; *Misc is National Training

Ratio :

For every (3) Operating Engineer Journeymen employed by the company there may be employed (1) Registered Apprentice or trainee Engineer through the referral when they are available. An apprenice, while employed as part of a crew per Article VIII, paragraph 78, will not be subject to the apprenticeship ratios in this collective bargaining agreement

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WYANDOT

Special Jurisdictional Note :

Details :

Note: There will be a 10% increase for the apprentices on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if required to have CDL

Group A- Barrier Moving Machines; Boiler Operators or Compressor Operators, when compressor or boiler is mounted on crane (Piggyback Operation); Boom Trucks (all types); Cableways Cherry Pickers; Combination - Concrete Mixers & Towers; All Concrete Pumps with Booms; Cranes (all types); Compact Cranes, track or rubber over 4,000 pounds capacity; Cranes self-erecting, stationary, track or truck (all configurations); Derricks (all types); Draglines; Dredges (dipper, clam or suction) 3-man crew; Elevating Graders or Euclid Loaders; Floating Equipment; Forklift (rough terrain with winch/hoist); Gradalls; Helicopter Operators, hoisting building materials; Helicopter Winch Operators, Hoisting building materials; Hoes (All types); Hoists (with two or more drums in use); Horizonal Directional Drill; Hydraulic Gantry (lift system); Laser Finishing Machines; Laser Screed and like equipment; Lift Slab or Panel Jack Operators; Locomotives (all types); Maintenance Operator/Technician(Mechanic Operator/Technician and/or Welder); Mixers, paving (multiple drum); Mobile Concrete Pumps, with booms; Panelboards, (all types on site); Pile Drivers; Power Shovels; Prentice Loader; Rail Tamper (with automatic lifting and aligning device); Rotary Drills (all), used on caissons for foundations and sub-structure; Side Booms; Slip Form Pavers; Straddle Carriers (Building Construction on site); Trench Machines (over 24" wide); Tug Boats.

Group B - Articulating/end dumps (minus $4.00/hour from Group B rate); Asphalt Pavers; Bobcat-type and/or skid steer loader with hoe attachment greater than 7000 lbs.; Bulldozers; CMI type Equipment; Concrete Saw, Vermeer-type; Endloaders; Hydro Milling Machine; Kolman-type Loaders (Dirt Loading); Lead Greasemen; Mucking Machines; Pettibone-Rail Equipment; Power Graders; Power Scoops; Power Scrapers; Push Cats;, Rotomills (all), grinders and planers of all types.

Group C - A-Frames; Air Compressors, Pressurizing Shafts or Tunnels; All Asphalt Rollers; Bobcat-type and/or Skid Steer Loader with or without attachments; Boilers (15 lbs. pressure and over); All Concrete Pumps (without booms with 5 inch system); Fork Lifts (except masonry); Highway Drills - all types (with integral power); Hoists (with one drum); House Elevators (except those automatic call button controlled), Buck Hoists, Transport Platforms, Construction Elevators; Hydro Vac/Excavator (when a second person is needed, the rate of pay will be "Class E"); Man Lifts; Material hoist/elevators; Mud Jacks; Pressure Grouting; Pump Operators (installing or operating Well Points or other types of Dewatering Systems); Pumps (4 inches and over discharge); Railroad Tie (Inserter/Remover); Rotovator (Lime-Soil Stabilizer); Submersible Pumps (4"and over discharge); Switch & Tie Tampers (without lifting and aligning device); Trench Machines (24" and under); Utility Operators.

Group D - Backfillers and Tampers; Ballast Re-locator; Batch Plant Operators; Bar and Joint Installing Machines; Bull Floats; Burlap and Curing Machines; Clefplanes; Compressors, on building construction; Concrete Mixers, more than one bag capacity; Concrete Mixers, one bag capacity (side loaders); All Concrete Pumps (without boom with 4" or smaller system); Concrete Spreader; Conveyors, used for handling building materials; Crushers; Deckhands; Drum Fireman (in asphalt plants); Farm type tractors pulling attachments; Finishing Machines; Form Trenchers; Generators: Gunite Machines; Hydro-seeders; Pavement Breakers (hydraulic or cable); Post Drivers; Post Hole Diggers; Pressure Pumps (over 1/2") discharge); Road Widening Trenchers; Rollers (except asphalt); Self-propelled sub-graders; Shotcrete Machines; Tire Repairmen; Tractors, pulling sheepsfoot post roller or grader; VAC/ALLS; Vibratory Compactors, with integral power; Welders.

Group E – Allen Screed Paver (concrete); Boilers (less than 15 lbs. pressure); Cranes-Compact, track or rubber (under 4,000 pounds capacity); Directional Drill "Locator"; Fueling and greasing +$3.00; Inboard/outboard Motor Boat Launches; Light Plant Operators; Masonry Fork Lifts; Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalperson, Submersible Pumps (under 4" discharge).

Master Mechanics - Master Mechanic

Cranes 150' – 180' - Boom & Jib 150 - 180 feet

Cranes 180' – 249' - Boom & Jib 180 - 249 feet

Cranes 250' and over - Boom & Jib 250-feet or over

Prevailing Wage Rate
Skilled Crafts

Name of Union: Operating Engineers - HevHwy Zone II

Change # : LCN01-2022sksLoc18hevhwyII

Craft : Operating Engineer Effective Date : 05/25/2022 Last Posted : 05/25/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Operator Class A	$40.19		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.44	$76.53
Operator Class B	$40.07		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.32	$76.35
Operator Class C	$39.03		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$55.28	$74.79
Operator Class D	$37.85		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$54.10	$73.03
Operator Class E	$32.39		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$48.64	$64.83
Master Mechanic	$40.44		$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$56.69	$76.91
Apprentice	Percent											
1st Year	50.00	$20.09	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$36.35	$46.39
2nd Year	60.00	$24.11	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$40.36	$52.42
3rd Year	70.00	$28.13	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$44.38	$58.45
4th Year	80.00	$32.15	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$48.40	$64.48
Field Mech Trainee Class 2												
1st year	50.00	$20.09	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$36.35	$46.39
2nd year	60.00	$24.11	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$40.36	$52.42
3rd year	70.00	$28.13	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$44.38	$58.45
4th year	80.00	$32.15	$9.01	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.05	$48.40	$64.48

Special Calculation Note : Other: Education & Safety Fund is $0.09 per hour. *Misc is National Training

Ratio :

For every (3) Operating Engineer Journeymen employed by the company, there may be employed (1) Registered Apprentice or Trainee Engineer through the referral when they are available. An Apprentice, while employed as part of a crew per Article VIII,

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE,

paragraph 65 will not be subject to the apprenticeship ratios in this collective bargaining agreement	FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

**Apprentices wilt receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if they are required to have CDL.

Class A - Air Compressors on Steel Erection; Asphalt Plant Engineers (Cleveland District Only); Barrier Moving Machine; Boiler Operators, Compressor Operators, or Generators, when mounted on a rig; Boom Trucks (all types); Cableways; Cherry Pickers; Combination- Concrete Mixers & Towers; Concrete Plants (over 4 yd capacity); Concrete Pumps; Cranes (all types); Compact Cranes track or rubber over 4,000 pounds capacity; Cranes self-erecting stationary, track or truck; Derricks (all types); Draglines; Dredges dipper, clam or suction; Elevating Graders or Euclid Loaders; Floating Equipment (all types); Gradalls; Helicopter Crew (Operator- hoist or winch); Hoes (all types); Hoisting Engines; Hoisting Engines, on shaft or tunnel work; Hydraulic Gantry (lifting system); Industrial-type Tractors; Jet Engine Dryer (D8 or D9) diesel Tractors; Locomotives (standard gauge); Maintenance Operators/Technicians (class A); Mixers, paving (single or double drum); Mucking Machines; Multiple Scrapers; Piledriving Machines (all types); Power Shovels, Prentice Loader; Quad 9 (double pusher); Rail Tamper (with automatic lifting and aligning device); Refrigerating Machines (freezer operation); Rotary Drills, on caisson work; Rough Terrain Fork Lift with winch/hoist; Side Booms; Slip Form Pavers; Survey Crew Party Chiefs; Tower Derricks; Tree Shredders; Trench Machines (over 24" wide); Truck Mounted Concrete Pumps; Tug Boats; Tunnel Machines and /or Mining Machines; Wheel Excavators.

Class B - Asphalt Pavers; Automatic Subgrade Machines, self-propelled (CMI-type); Bobcat-type and /or Skid Steer Loader with hoe attachment greater than 7000 lbs.; Boring Machine Operators (more than 48 inches); Bulldozers; Concrete Saws, Vermeer type; Endloaders; Horizontal Directional Drill (50,000 ft. lbs. thrust and over); Hydro Milling Machine; Kolman-type Loaders (production type-dirt); Lead Greasemen; Lighting and Traffic Signal Installation Equipment includes all groups or classifications; Maintenance Operators/Technicians, Class B; Material Transfer Equipment (shuttle buggy) Asphalt; Pettibone-Rail Equipment; Power Graders; Power Scrapers; Push Cats; Rotomills (all), Grinders and Planners of all types, Groovers (excluding walk-behinds); Trench Machines (24 inch wide and under).

Class C - A-Frames; Air Compressors, on tunnel work (low Pressure); Articulating/straight bed end dumps if assigned (minus $4.00 per hour); Asphalt Plant Engineers (Portage and Summit Counties only); Bobcat-type and/or skid steer loader with or without attachments; Drones; Highway Drills (all types); HydroVac/Excavator (when a second person is needed, the rate of pay will be "Class E"); Locomotives (narrow gauge); Material Hoist/Elevators; Mixers, concrete (more than one bag capacity); Mixers, one bag

capacity (side loader); Power Boilers (over 15 lbs. pressure); Pump Operators (installing or operating well Points); Pumps (4 inch and over discharge); Railroad Tie Inserter/Remover; Rollers, Asphalt; Rotovator (lime-soil Stabilizer); Switch & Tie Tampers (without lifting and aligning device); Utilities Operators, (small equipment); Welding Machines and Generators.

Class D – Backfillers and Tampers; Ballast Re-locator; Bar and Joint Installing Machines; Batch Plant Operators; Boring Machine Operators (48 inch or less); Bull Floats; Burlap and Curing Machines; Concrete Plants (capacity 4 yds. and under); Concrete Saws (multiple); Conveyors (highway); Crushers; Deckhands; Farm type tractors, with attachments (highway); Finishing Machines; Firemen, Floating Equipment (all types); Fork Lifts (highway), except masonry; Form Trenchers; Hydro Hammers; Hydro Seeders; Pavement Breakers (hydraulic or cable); Plant Mixers; Post Drivers; Post Hole Diggers; Power Brush Burners; Power Form Handling Equipment; Road Widening Trenchers; Rollers (brick, grade, macadam); Self-Propelled Power Spreaders; Self-Propelled Sub-Graders; Steam Firemen; Survey Instrument men; Tractors, pulling sheepsfoot rollers or graders; Vibratory Compactors, with integral power.

Class E - Compressors (portable, Sewer, Heavy and Highway); Cranes-Compact, track or rubber under 4,000 pound capacity; Drum Firemen (asphalt plant); Fueling and greasing (Primary Operator with Specialized CDL Endorsement Add $3.00/hr); Generators; Inboard-Outboard Motor Boat Launches; Masonry Fork Lifts; Oil Heaters (asphalt plant); Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalperson; Survey Rodmen or Chairmen; Tire Repairmen; VAC/ALLS.
Master Mechanic - Master Mechanic

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 841

Change # : LCN01-2021sksLoc841

Craft : Painter Effective Date : 11/17/2021 Last Posted : 11/17/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Brush Roll	$28.18		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$43.53	$57.62
Paperhanger	$28.18		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$43.53	$57.62
Painter Spray Gun Operator Any and Al Coatings)	$29.03		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$44.38	$58.90
Swing Scaffold, Bosum Chair, & Window Jacks	$28.93		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$44.28	$58.75
Sandblast, Painting of Standpipes, etc. from Scaffolds Open Structural Steel, Standpipes and Water Towers	$29.43		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$44.78	$59.50
Epoxy Application	$28.83		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$44.18	$58.60
Synthetic Exterior, Lead Abatement, Asbestos Removal	$29.43		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$44.78	$59.50
Apprentice	**Percent**											
1st Year	53.24	$15.00	$6.85	$2.72	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$25.57	$33.07
2nd Year	60.00	$16.91	$6.85	$3.14	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$27.90	$36.35
3rd Year	70.00	$19.73	$6.85	$3.57	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$31.15	$41.01
4th Year	80.00	$22.54	$6.85	$4.34	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$34.73	$46.01

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, COSHOCTON, HOLMES, MEDINA, PORTAGE*, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Summit Cnty: South of and including the Ohio Turnpike, Portage Cnty: North to and including the Ohio Turnpike

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 841 (Finisher/Taper)

Change # : LCN01-2021sksLoc841

Craft : Drywall Finisher **Effective Date :** 11/17/2021 **Last Posted :** 11/17/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Drywall Finisher/PainterTaper	$29.43		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$44.78	$59.50
Apprentice	Percent											
1st Year	50.98	$15.00	$6.85	$2.72	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$25.57	$33.08
2nd Year	65.00	$19.13	$6.85	$3.52	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$30.50	$40.06
3rd Year	80.00	$23.54	$6.85	$4.34	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$35.73	$47.51

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, COSHOCTON, HOLMES, MEDINA, PORTAGE*, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Summit County South of and including the Ohio Turnpike, Portage Cnty: North of and including the Ohio Turnpike

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 841 Bridge Painter

Change # : LCN01-2021sksLoc841

Craft : Painter Effective Date : 11/17/2021 Last Posted : 11/17/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Bridge Blaster Class 1	$37.85		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$53.20	$72.12
Class 2 Bridge Painter, Rigger, Containment Builder, Spot Blaster	$34.85		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$50.20	$67.62
Class 3 Equipment Operator/Field Mechanic, Grit Reclamation, Paint Mixer, Traffic Control, Boat Person, Dive (0-5 Years Exp)	$27.85		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$43.20	$57.13
Class 3 Equipment Operator/Field Mechanic, Grit Reclamation, Paint Mixer, Traffic Control, Boat Person, Dive (5 plusYears Exp).	$30.85		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$46.20	$61.63
Class 4 Concrete Sealing, Concrete Blasting/Power Washing/Etc.	$30.85		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$46.20	$61.63
Class 5 Quality Control/QualityAssurance Traffic Safety, Competent Person.	$30.85		$6.85	$7.50	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$46.20	$61.63
Apprentice	**Percent**											
1st Year	50.01	$18.93	$6.85	$2.72	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$29.50	$38.96
2nd Year	60.00	$22.71	$6.85	$3.14	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$33.70	$45.06
3rd year	70.00	$26.50	$6.85	$3.57	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$37.92	$51.16
4th Year	80.00	$30.28	$6.85	$4.34	$0.35	$0.00	$0.65	$0.00	$0.00	$0.00	$42.47	$57.61

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, COSHOCTON, HOLMES, MEDINA, PORTAGE*, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Summit County: South of and including the Ohio Turnpike, Portage County: North to and including the Ohio Turnpike

Details :

Class 1 – Abrasive blasting of any kind
Class 2 – Bridge painting, coating applications of any kind. All steel surface preparation other than abrasive blasting. All necessary rigging and containment building and all remedial/ spot blasting.
Class 3 – Tend to all equipment including but not limited to abrasive blasting, power washing, spray painting, forklifts, hoists, truck, etc. Load and unloading trucks, handle materials, man safety boats, handle traffic control, clean up/ vacuum abrasive blast materials and related tasks.
Class 4 – All aspects of concrete coating/ sealing including but not limited to preparation, containment, etc.
Class 5 – Verify and record that all work is completed according to job specifications. Assure that all health and safety standards are adhered to. Assure all traffic is safely handled.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639

Change # : LCNO1-2015fbLoc639

Craft : Painter Effective Date : 06/10/2015 Last Posted : 06/10/2015

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Painter Metal Polisher											
Top Helper Class A	$19.09	$3.65	$0.00	$0.00	$0.66	$0.00	$0.00	$0.00	$0.00	$23.40	$32.94
Top Helper Class B	$19.09	$3.65	$0.65	$0.00	$1.03	$0.00	$0.37	$0.00	$0.00	$24.79	$34.33
Top Helper Class C	$19.09	$3.65	$1.00	$0.00	$1.76	$0.00	$0.37	$0.00	$0.00	$25.87	$35.41
Helper Class A	$14.69	$3.65	$0.00	$0.00	$0.51	$0.00	$0.00	$0.00	$0.00	$18.85	$26.19
Helper Class B	$14.69	$3.65	$0.65	$0.00	$0.79	$0.00	$0.28	$0.00	$0.00	$20.06	$27.40
Helper Class C	$14.69	$3.65	$1.00	$0.00	$1.64	$0.00	$0.28	$0.00	$0.00	$21.26	$28.60
New Hire 90 Days	$11.00	$3.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14.65	$20.15

Special Calculation Note : Other is Sick and Personal Time

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION,

VAN WERT, VINTON, WARREN, WASHINGTON,
WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

Top Helper: Shall perform the responsibilities of a Helper and be responsible for the setup, break down, safety and quality of the company's product.
Helper : Shall be responsible for performing tasks in refinishing, compliance with safety procedures, setting up and breaking down job sites, scaffolding and swing stages and preparing surfaces for refinishing including but not limited to, masking and stripping and cleaning, oxidizing, polishing and scratch removal on various surfaces

.

Class A Workers: Less than 1 Year of Service.
Class B Workers: More than 1 and less than 8 Years of Service.
Class C Workers: More than 8 Years of Service.

Metal Polisher Scope of Work: Polishing, buffing, stripping, coloring, lacquering, spraying, cleaning and maintenance of ornamental and architectural metals, iron, bronze, nickel, aluminum and stainless steel and in mental specialty work, various stone finishes, stone specialty work and any other work pertaining to the finishing of metal, stones, woods, and any window washing/cleaning done in conjunction with this work, using chemicals, solvents, coatings and hand applied lacquer thinner, removing scratches from mirrow finished metals, burnishing of bronze, statuary finishes on exterior and interior surfaces and the use of all tools required to perform such work, including but not limited to polishes, spray equipment and scaffolding.

Swing State Rate: All work on scaffold 4 sections or higher, including any boom lifts and swing stage scaffolds including the rigging and derigging of hanging/suspended swing stage systems and rappelling/bolson chair work, ADD $1.50 per hour.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639 Zone 2 Sign

Change # : LCN01-2016fbLoc639

Craft : Painter Effective Date : 08/03/2016 Last Posted : 08/03/2016

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Painter Sign Journeyman Tech/Team Leader Class A	$21.25	$1.33	$0.14	$0.00	$0.00	$0.00	$0.57	$0.00	$0.00	$23.29	$33.92
Painter Sign Journeyman Tech/Team Leader Class B	$21.25	$1.33	$0.14	$0.00	$0.41	$0.00	$0.57	$0.00	$0.00	$23.70	$34.32
Painter Sign Journeyman Tech/Team Leader Class C	$21.25	$1.33	$0.14	$0.00	$0.82	$0.00	$0.57	$0.00	$0.00	$24.11	$34.74
Painter Sign Journeyman Tech/Team Leader Class D	$21.25	$1.33	$0.14	$0.00	$1.23	$0.00	$0.57	$0.00	$0.00	$24.52	$35.14
Sign Journeyman Class A	$20.98	$1.33	$0.14	$0.00	$0.00	$0.00	$0.56	$0.00	$0.00	$23.01	$33.50
Sign Journeyman Class B	$20.98	$1.33	$0.14	$0.00	$0.40	$0.00	$0.56	$0.00	$0.00	$23.41	$33.90
Sign Journeyman Class C	$20.98	$1.33	$0.14	$0.00	$0.81	$0.00	$0.56	$0.00	$0.00	$23.82	$34.31
Sign Journeyman Class D	$20.98	$1.33	$0.14	$0.00	$1.21	$0.00	$0.56	$0.00	$0.00	$24.22	$34.71
Tech Sign Fabrication/ Erector Class A	$15.90	$1.33	$0.14	$0.00	$0.00	$0.00	$0.43	$0.00	$0.00	$17.80	$25.75
Tech Sign Fabrication/ Erector Class B	$15.90	$1.33	$0.14	$0.00	$0.31	$0.00	$0.43	$0.00	$0.00	$18.11	$26.06
Tech Sign Fabrication/ Erector Class C	$15.90	$1.33	$0.14	$0.00	$0.61	$0.00	$0.43	$0.00	$0.00	$18.41	$26.36
Tech Sign Fabrication/ Erector	$15.90	$1.33	$0.14	$0.00	$0.92	$0.00	$0.43	$0.00	$0.00	$18.72	$26.67

Class D												

Special Calculation Note : Other is for paid holidays.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ALLEN, AUGLAIZE, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GREENE, HAMILTON, HANCOCK, HARDIN, HENRY, HIGHLAND, HOLMES, HURON, JACKSON, KNOX, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MERCER, MIAMI, MONTGOMERY, MORROW, MUSKINGUM, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, WARREN, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :
Class A: less that 1 year.
Class B: 1-3 years.
Class C; 3-10 years.
Class D: More than 10 years.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Plumber Pipefitter Local 94

Change # : LCN01-2021sksLoc94

Craft : Plumber/Pipefitter **Effective Date :** 11/24/2021 **Last Posted :** 11/24/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Plumber Pipefitter	$36.33		$8.83	$6.19	$0.77	$0.00	$6.30	$0.10	$0.00	$0.00	$58.52	$76.68
Apprentice Hired After 05-01-2017												
1st Year	$14.53		$8.83	$0.00	$0.77	$0.00	$3.15	$0.10	$0.00	$0.00	$27.38	$34.65
2nd Year	$18.17		$8.83	$0.50	$0.77	$0.00	$3.15	$0.10	$0.00	$0.00	$31.52	$40.61
3rd Year	$21.80		$8.83	$0.50	$0.77	$0.00	$3.15	$0.10	$0.00	$0.00	$35.15	$46.05
4th Year	$25.43		$8.83	$0.50	$0.77	$0.00	$4.73	$0.10	$0.00	$0.00	$40.36	$53.07
5th Year	$29.06		$8.83	$0.50	$0.77	$0.00	$4.55	$0.10	$0.00	$0.00	$43.81	$58.34
Apprentice If Hired Before 5-01-2017	**Percent**											
5th yr 1st 6mos	85.00	$30.88	$8.83	$0.50	$0.77	$0.00	$1.82	$0.10	$0.00	$0.00	$42.90	$58.34
5th yr 2nd 6 months	90.00	$32.70	$8.83	$0.50	$0.77	$0.00	$1.82	$0.10	$0.00	$0.00	$44.72	$61.07

Special Calculation Note : Other is International Training Fund.

Ratio :

1 Journeymen to 2 Apprentice
4 Journeymen to 3 Apprentice
6 Journeymen to 4 Apprentice
9 Journeymen to 5 Apprentice
11 Journeyman to 6 Apprentice

3 Journeyman to 1 Apprentice Thereafter

Jurisdiction (* denotes special jurisdictional note) :
CARROLL*, STARK, WAYNE

Special Jurisdictional Note : In Carroll County the following townships are included: Ross, Monroe, Union, Lee, Orange, Perry and London.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Roofer Local 88

Change # : LCN01-2022sksLoc88

Craft : Roofer Effective Date : 06/01/2022 Last Posted : 06/01/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Roofer	$29.07		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$49.85	$64.39
HELPERS												
Helper -500 Hrs. 1st 6 months	$16.27		$2.25	$0.00	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$20.60	$28.73
Helper - 500 Hrs. 2nd 6 months	$18.02		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$38.80	$47.81
2nd year Helper	$19.76		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$40.54	$50.42
3rd year Helper	$21.51		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$42.29	$53.05
4th year Helper	$23.25		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$44.03	$55.66
5th year Helper	$25.00		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$45.78	$58.28
Apprentice	Percent											
1st 6 months w/500 hrs	55.97	$16.27	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$37.05	$45.19
2nd 6 months w/500 hrs	62.00	$18.02	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$38.80	$47.82
3rd 6 months w/500 hrs	67.97	$19.76	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$40.54	$50.42
4th 6 months w/500 hrs	74.00	$21.51	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$42.29	$53.05
5th 6 months w/500 hrs	79.98	$23.25	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$44.03	$55.66
6th 6 months w/500 hrs	86.00	$25.00	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$45.78	$58.28

7th 6 months w/500 hrs	92.00	$26.74	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$47.52	$60.90

Special Calculation Note : Roofers working in any form of coal tar pitch, whether hot or cold, installing and/or removing will be paid $.25 more per hour.
Other $0.18 is for C.I.D.B.

Ratio :

No helper shall be used on any one job unless 1 Journeymen, and 1 Apprentices are working on said job .One
(1) Journeymen to One (1) Apprentice to One (1) Helper

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, CRAWFORD, HOLMES, HURON, LORAIN*, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note : In Lorain County (South of the Turnpike)

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Sheet Metal Local 33 (Akron)

Change # : LCN01-2022sksLoc33Akron

Craft : Sheet Metal Worker Effective Date : 06/01/2022 Last Posted : 06/01/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sheet Metal Worker	$33.89		$9.35	$13.20	$0.93	$0.00	$7.20	$0.00	$0.00	$0.00	$64.57	$81.52
Apprentice	**Percent**											
Apprentice												
1st year	60.00	$20.33	$9.35	$4.81	$0.17	$0.00	$0.00	$0.00	$0.00	$0.00	$34.66	$44.83
2nd year	65.00	$22.03	$9.35	$5.97	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$41.88	$52.89
3rd year	70.00	$23.72	$9.35	$6.37	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$43.97	$55.83
4th year	80.00	$27.11	$9.35	$7.18	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$48.17	$61.73
5th year as of May 1, 2022 until completion of apprenticeship	80.00	$27.11	$9.35	$7.18	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$48.17	$61.73

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeymen to 1 Apprentice
2 Journeymen to 1 Apprentice
3 Journeymen to 2 Apprentice
4 Journeymen to 2 Apprentice
5-7 Journeymen to 3 Apprentice
8-10 Journeymen to 4 Apprentice
11-13 Journeymen to 5 Apprentice
14, 15 Journeymen to 6 Apprentice
and maintaining a three to one apprentice ratio thereafter.

Jurisdiction (* denotes special jurisdictional note) :
ASHLAND, CARROLL, COSHOCTON, CRAWFORD, HOLMES, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :
Scope of Work: This Agreement covers the rates of pay and conditions of employment of all employees of the Employer engaged in, but not limited to, the a) manufacture, fabrication, assembling, handling, erection,

installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or non-ferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air-veyor systems, exhaust systems, and air handling systems regardless of material used, including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct-lining; (c) testing, servicing, and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches, whether manually drawn or computer assisted, used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches, and (e) metal roofing; and (f) all other work included in the jurisdictional claims of Sheet Metal Worker's International Association.
Industrial Door-Installation and service of overhead doors roll up doors, docks and dock leveling.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Sheet Metal Local 33 Industrial Door

Change # : LCN01-2022sksLoc33Industrial DoorClev

Craft : Sheet Metal Worker Effective Date : 08/01/2022 Last Posted : 07/27/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sheet Metal Worker	$23.92		$8.66	$5.55	$0.17	$0.00	$2.15	$0.00	$0.00	$0.00	$40.45	$52.41
Trainees	Percent											
1st 60 days Probationary Perios	52.00	$12.44	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$12.44	$18.66
61st day-12 months	58.00	$13.87	$8.66	$1.92	$0.17	$0.00	$1.41	$0.00	$0.00	$0.00	$26.03	$32.97
2nd yr	68.00	$16.27	$8.66	$1.92	$0.17	$0.00	$1.59	$0.00	$0.00	$0.00	$28.61	$36.74
3rd yr	73.00	$17.46	$8.66	$1.92	$0.17	$0.00	$1.69	$0.00	$0.00	$0.00	$29.90	$38.63
4th yr	80.00	$19.14	$8.66	$1.92	$0.17	$0.00	$1.80	$0.00	$0.00	$0.00	$31.69	$41.25
5th yr	86.00	$20.57	$8.66	$1.92	$0.17	$0.00	$1.91	$0.00	$0.00	$0.00	$33.23	$43.52

Special Calculation Note :

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ASHLAND, ASHTABULA, CARROLL, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DEFIANCE, ERIE, FULTON, GEAUGA, HANCOCK, HENRY, HOLMES, HURON, LAKE, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PAULDING, PORTAGE, PUTNAM, RICHLAND, SANDUSKY, SENECA, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE, WILLIAMS, WOOD

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Sprinkler Fitter Local 669

Change # : LCN01-2022sksLoc669

Craft : Sprinkler Fitter Effective Date : 04/06/2022 Last Posted : 04/06/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sprinkler Fitter	$43.75		$10.99	$7.10	$0.52	$0.00	$5.12	$0.00	$0.00	$0.00	$67.48	$89.35
Apprentice Indentured after April 1, 2013	Percent											
CILASS 1	45.00	$19.69	$7.85	$0.00	$0.52	$0.00	$0.00	$0.00	$0.00	$0.00	$28.06	$37.90
CLASS 2	50.02	$21.88	$7.85	$0.00	$0.52	$0.00	$0.00	$0.00	$0.00	$0.00	$30.25	$41.20
CLASS 3	54.43	$23.81	$10.99	$7.10	$0.52	$0.00	$1.15	$0.00	$0.00	$0.00	$43.57	$55.48
CLASS 4	59.43	$26.00	$10.99	$7.10	$0.52	$0.00	$1.15	$0.00	$0.00	$0.00	$45.76	$58.76
CLASS 5	64.43	$28.19	$10.99	$7.10	$0.52	$0.00	$1.40	$0.00	$0.00	$0.00	$48.20	$62.29
CLASS 6	69.43	$30.38	$10.99	$7.10	$0.52	$0.00	$1.40	$0.00	$0.00	$0.00	$50.39	$65.57
CLASS 7	74.43	$32.56	$10.99	$7.10	$0.52	$0.00	$1.40	$0.00	$0.00	$0.00	$52.57	$68.85
CLASS 8	79.42	$34.75	$10.99	$7.10	$0.52	$0.00	$1.40	$0.00	$0.00	$0.00	$54.76	$72.13
CLASS 9	84.43	$36.94	$10.99	$7.10	$0.52	$0.00	$1.40	$0.00	$0.00	$0.00	$56.95	$75.42
CLASS 10	89.44	$39.13	$10.99	$7.10	$0.52	$0.00	$1.40	$0.00	$0.00	$0.00	$59.14	$78.70

Special Calculation Note :

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW,

MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

Sprinkler Fitter work shall consist of the installation,dismantling,maintenance,repairs,adjustments,and corrections of all fire protection and fire control systems including the unloading,handling by hand,power equipment and installation of all piping or tubing,appurtenances and equipment pertaining thereto,including both overhead and underground water mains,fire hydrants and hydrant mains,standpipes and hose connections to sprinkler systems used in connection with sprinkler and alarm systems. Also all tanks and pumps connected thereto,also included shall be CO-2 and Cardox Systems, Dry Chemical Systems,Foam Systems and all other fire protection systems.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Truck Driver Bldg & HevHwy Class 1
Locals 20,40,92,92b,100,175,284,438,377,637,908,957

Change # : LCRO1-2021fbBldgHevHwy

Craft : Truck Driver Effective Date : 05/21/2021 Last Posted : 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Truck Driver CLASS 1 4 wheel service, dump, and batch trucks, Oil Distributor - Asphalt Distributor-Tandems	$29.24		$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.44	$60.06
Apprentice	Percent											
First 6 months	80.00	$23.39	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$39.59	$51.29
7-12 months	85.00	$24.85	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$41.05	$53.48
13-18 months	90.00	$26.32	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$42.52	$55.67
19-24 months	95.00	$27.78	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$43.98	$57.87
25-30 months	100.00	$29.24	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.44	$60.06

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,

HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive $0.20 cents per hour above their Basic Hourly Rate.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Truck Driver Bldg & HevHwy Class 2
Locals 20,40,92,92b,100,175,284,438,377,637,908,957

Change # : LCNO1-2022sksBldgHevHwy

Craft : Truck Driver **Effective Date :** 06/08/2022 **Last Posted :** 06/08/2022

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Truck Driver CLASS 2 Tractor Trailer-Semi Tractor Trucks-Pole Trailers-Ready Mix Trucks-Fuel Trucks-Asphalt-Oil Spray bar men- 5 Axle & Over -Belly Dumps-End Dumps-Articulated Dump Trucks- Low boys-Heavy duty Equipment(irrespective of load carried) when used exclusively for transportation-Truck Mechanics (when needed)	$30.81		$7.50	$8.80	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$47.31	$62.72
Apprentice	**Percent**											
First 6 months	79.98	$24.64	$7.50	$8.80	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$41.14	$53.46
7-12 months	87.25	$26.88	$7.50	$8.80	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$43.38	$56.82
13-18 months	90.00	$27.73	$7.50	$8.80	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$44.23	$58.09
19-24 months	94.98	$29.26	$7.50	$8.80	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.76	$60.40
25-30 months	100.00	$30.81	$7.50	$8.80	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$47.31	$62.72

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,

HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive $0.20 cents per hour above their Basic Hourly Rate.

Appendix C

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Middle Branch Redevelopment and Greenspace Areas

Prepared for:

Mr. Dan J. Moeglin, P.E.
Canton City Engineer
The City of Canton
2436 30th St. NE
Canton, OH 44705

Project No.: 14830
Date: July 30, 2021

Prepared by:

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ACRONYMS AND ABBREVIATIONS

AST	Aboveground Storage Tank
BGS	Below Ground Surface
BUSTR	Bureau of Underground Storage Tank Regulations
CIDARS	Chemical Information Database and Applicable Regulatory Standards
COC	Chemical of Concern
DRO	Diesel Range Organics
ESA	Environmental Site Assessment
GDCNS	Generic Direct Contact Numerical Standards
GDCSS	Generic Direct Contact Soil Standards
GRO	Gasoline Range Organics
HREC	Historical Recognized Environmental Condition
LUST	Leaking Underground Storage Tank
MRO	Motor Oil/Lube Oil
OEPA	Ohio Environmental Protection Agency
PAH	Polynuclear Aromatic Hydrocarbons
PID	Photo Ionization Detector
PPM	Parts Per Million
PVC	Polyvinylchloride
REC	Recognized Environmental Condition
RCRA	Resource Conservation Recovery Act
Site	2402 30th Street, Canton, Ohio
TPH	Total Petroleum Hydrocarbons
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VAP	Voluntary Action Program
VOC	Volatile Organic Compounds

EXECUTIVE SUMMARY

EnviroScience, Inc. was retained by the City of Canton to conduct a Limited Phase II Environmental Site Assessment (ESA) of the proposed Middle Branch Re-Development Area, Phase 1 and Middle Branch Greenspace Area, Phase 2 in the City of Canton, Stark County, Ohio. The Middle Branch Re-Development Area (Site A) and Greenspace Area (Site B) are comprised of various property parcels located east of Nimishillen Creek, north of the railroad, west of Marion Motley Blvd NE and south of Berger Place NE.

EnviroScience previously performed a Phase I ESA of the site(s) in May 2021. The Phase I ESA revealed evidence of eight RECs, an HREC, a de minimis condition, and several "other environmental conditions" for the subject property. The completion of this Limited Phase II ESA addresses recommendations made in the Phase I ESA for additional environmental assessment to further characterize the environmental condition of the site with respect to the RECs, HREC, and other environmental concerns.

To preliminarily assess the potential Chemicals of Concern (COC) impacts at the site, a total of fourteen soil borings (identified as B-1 through B-14) were installed by "direct-push" technology at various locations throughout the site. In addition, one surface soil sample and corresponding product sample from the ground surface was taken. Soil samples were collected and submitted to an accredited lab to be analyzed for a variety of analytical parameters and the results were compared to the Ohio Environmental Protection Agency (OEPA) Voluntary Action Program (VAP) Generic Direct Contact Soil Standards (GDCSS) for both residential and commercial/industrial land use and construction/excavation activities.

Lab analysis of soil samples taken during the investigation revealed the following:

<u>Lead</u> - Lead concentrations exceeded the Ohio VAP Residential GDCNS of 400 mg/kg for Lead in Borings B-9 (1600 mg/kg) and B-10 (2700 mg/kg). The concentrations at these two locations also exceeded the Commercial/Industrial GDCNS of 800mg/kg.

<u>Benzo(a)Pyrene</u> - Benzo(a)Pyrene concentrations exceeded the Ohio VAP Residential GDCNS for Benzo(a)Pyrene of 2300 ug/kg in Boring B-13 (7700 mg/kg) and in SS-1 (2500mg/kg) The Commercial/Industrial GDCNS is 62,000 ug/kg.

<u>Arsenic</u> - Arsenic in 7 of the 15 soil samples taken onsite are above Ohio VAP GDCSS thresholds for residential land use of (14 mg/kg) but are all well below the GDCSS for commercial/industrial use of 100 mg/kg and are below the commercial land use with high-frequency child exposure GDCSS for arsenic of 46 mg/kg. An example of commercial use with high-frequency child exposure would be a school (refer to OAC 3745-300-01).

The arsenic levels detected onsite are generally within the range of background levels often encountered in Northeastern Ohio, according to a variety of studies and papers generated over the past 25 years on naturally occurring background metals concentrations of soils in Ohio.

<u>Recommendations</u> – Based on the limited soil borings advanced and data collected, the majority of samples taken did not indicate the presence of COCs in the subsurface at a level of concern.

However, isolated areas of lead contamination in the soil were discovered above the Ohio VAP Residential GDCNS and Commercial/Industrial GDCNS. It is EnviroScience's opinion that any future development or site improvements that involves excavation and/or other disturbances may

result in the need to conduct additional investigation to ensure proposed work areas do not require special handling and/or management of potentially contaminated subsurface materials.

In addition, a minor surface spill of what appears to be a petroleum based constituent (PR-1) was observed in the vicinity of surface sample SS-1. It is recommended that this spill be cleaned up and disposed of appropriately.

1.0 BACKGROUND

EnviroScience, Inc. was retained by the City of Canton to conduct a Limited Phase II Environmental Site Assessment (ESA) of the proposed Middle Branch Re-Development Area – Phase 1, and Middle Branch Greenspace Area - Phase 2, in the City of Canton, Stark County, Ohio. The Middle Branch Re-Development Area (herein referred to as Site A) and Greenspace Area (herein referred to as Site B) are comprised of various property parcels located east of Nimishillen Creek, north of the railroad, west of Marion Motley Blvd NE and south of Berger Place NE as identified in the Phase 1 ESA report prepared by EnviroScience, Inc., May 11, 2021. The City of Canton is considering the purchase of the property.

This report documents the findings and conclusions of the Limited Phase II ESA.

1.1 SITE DESCRIPTION

The Site is located at 1738 and 1800 9th Street NE (and in adjacent outlying areas), City of Canton, Stark County, Ohio (See Appendix A, Figures 1 - 4). Site A consists of five parcels and Site B consists of thirteen parcels as identified by the Stark County Assessor's Office in the table below. Site A is the core industrial property last utilized as a municipal refuse transfer facility. The site contains several building structures, mobile office trailers, and a heavy truck scale. Site B is vacant, currently undeveloped, and generally overgrown with vegetation. The surrounding area is industrial and residential and includes undeveloped riparian areas along Nimishillen Creek.

Table 1. Site Information

Item	Description
Location	East of Nimishillen Creek, north of the railroad track, west of Marion Motley Blvd NE and south of Berger Place NE, Canton, Stark County, Ohio
Latitude (North) Longitude (West) Centroid Elevation	40.8024552 centroid of Site -81.354833 centroid of Site 1,040 ± feet above mean sea level
Current Use	Industrial/vacant land
Permanent Parcel Number	**Site A PPNs**: 246322, 246336, 246337, 246329, 246330 **Site B PPNs**: 246327, 246328, 200743, 246326, 234777, 246325, 246333, 246334, 246331, 246332, 226970, 208436, 218899
Total Land Area	19.707 acres (approximately)
Ownership Information	Parcels are currently owned by Metro Canton Real Estate, LLC

1.2 PHASE I ESA FINDINGS

The limited Phase II ESA was undertaken in response to the results of the *Phase 1 Environmental Site Assessment, Middle Branch Redevelopment Area, Phase 1 (1738,1800 9th Street NE, Canton, Ohio 44702), Middle Branch Greenspace Area, Phase 2, EnviroScience, Inc, 5/11/2021.*

This investigation identified the following environmental conditions:

Recognized Environmental Conditions (RECs)

Site A - 6,000-gallon steel diesel above ground storage tank (AST) south of the Maintenance Building in secondary containment. Potential release(s) of fuel is a concern. EPA requires a SPCC Plan for >1320 gallons of petroleum product present onsite.

Site A - Historic onsite auto and truck repair operations took place between the 1950's and last recent years of occupancy at the service garage/maintenance building. Hydraulic piston remnants in the floor and possibly other non-visible components of the old hydraulic floor lift are located in the northern portion of the Maintenance Building. Hydraulic fluid used in operation of the lifts may contain PCBs. Operations and automotive fluids, solvents, and lubricants used associated with vehicle repair facilities are a concern.

Site A - Oil/Water Separator catch basin in the northern section of the Maintenance Building with an unknown discharge point or contents is a concern.

Site A - Sanborn Fire Insurance Maps indicate a coal and boiler house was once located in the northern section of the property when it was a slaughterhouse/meat processing facility. By-products from coal ash and other unknown constituents may be a concern.

Site A - A Dominion natural gas transfer station and associated gas well is located on the southern portion of Site A within a fenced area. This facility was reported as the East Ohio Gas Lippert Station and was listed in the PCB Activity Database System (PADS) in the 2005 Clayton Phase 1 ESA.

Site A - What appears to be an old pad mounted transformer was observed inside the large open air Sorting Building mounted within an elevated steel cage. Staining was observed on the wall and floor at this location. (unlabeled transformers are considered (40 CFR 761.40) to be PCB contaminated).

Site A – The Clayton 2005 Phase 1 describes a storage building located along the north portion of the subject property along 9th street that contained old truck parts, such as axles, engine blocks, saddlebag fuel tanks, and transmissions. The area where the parts were stored appeared to be in poor condition. Clayton observed areas where free product of engine oil, transmission fluid, and diesel fuel were spilled and pooled to the ground. This area should be considered if additional investigation is performed.

Site B – Sanborn Fire Insurance Maps indicate the United Electric Company Stationary Vacuum Plant and a Motor Freight Company/Repair once occupied PPN 218899 along 8th Street NE from the early 1900's to approximately the late 1960's. No regulatory history exists for the former manufacturing plant and later, truck/freight facility. There is potential environmental concern due to this historic land use.

Historic Recognized Environmental Conditions

Site A - One HREC was identified in connection with the Site. The Site A underwent an underground storage tank closure consisting of the removal of 4 USTs (two 3,000-gallon diesel and two 4,000-gallon gasoline tanks) on March 18, 1994. Review of BUSTR files associated with the site indicate that soil concentrations for contaminants of concern taken from the excavated tank cavity were below current BUSTR action levels. An Ohio Department

of Commerce Bureau of Underground Storage Tanks "No Further Action Letter" was issued on 06/30/1994.

DeMinimis Conditions

Site B - Rubbish, trash, and construction demolition debris are scattered throughout Site B. Several empty herbicide containers were observed, as well as scattered bottles cans, aerosol spray cans and empty automotive fluid containers. A larger pile of construction debris was observed along the Conrail tracks.

Other Environmental Conditions

Site A and Site B - The overall industrial history of the vicinity combined with multiple regulatory database listings in reasonably close proximity to the Site cumulatively result in an increased risk for environmental concern from offsite sources. Sites of particular potential concern listed in the Data Base report include ACME Lumber, Jeffries Brothers Paving with multiple violations, and Republic Steel which appears on numerous data base listings and has multiple violations. GeoSearch lists this facility to be as close as .104 mile from the subject site. Aerial photography indicates the Republic Steel facility to be over a mile wide from end to end.

1.3 PURPOSE

The objective of the Limited Phase II ESA is to reduce uncertainty regarding the potential for impact to the Site resulting from the identified RECs, HREC, and other environmental conditions. The results of this investigation may aide in characterizing the environmental condition of the site.

Delineating vertical and/or horizontal extent of any contamination was beyond the scope of this project. The Limited Phase II ESA was conducted to determine the presence or absence of indicator contaminants associated with the RECs and HRECs identified by the Phase I ESA. The scope of services was a screening level investigation and was not intended to identify every chemical possibly associated with the Site.

1.4 SCOPE OF SERVICES

Based on the identified conditions and in consideration of the Client's stated objectives, EnviroScience proposed to assess the potential for impact as identified in Section 1.2 by means of subsurface exploration and sampling of environmental media, including soil and groundwater. On-site assessment is intended to identify the presence of potential Chemicals of Concern (COC) impacts at the site.

To preliminarily assess the potential Chemicals of Concern (COC) impacts at the site, a total of fourteen soil borings (identified as B-1 through B-14) were installed by "direct-push" technology at various locations throughout Site A and Site B. In addition, one surface soil sample and one sample of product lying on the ground surface was taken.

Soil samples were collected from the borings and one surface location and submitted to an accredited lab to be analyzed for the following:

- Volatile organic compounds (VOCs)
- Polynuclear aromatic hydrocarbons (PAHs)

- Polychlorinated biphenyls (PCBs)
- Resource Conservation Recovery Act (RCRA) eight Metals

The analytical results were compared to Ohio Environmental Protection Agency (OEPA) Voluntary Action Program (VAP) Single Chemical Generic Direct Contact Soil Standards (GDCSS) for both residential and commercial/industrial land use and construction/excavation activities.

Four of the fourteen soil borings were converted to temporary monitoring wells to allow a means to obtain an in-situ grab groundwater sample to be analyzed for VOCs and other parameters if adequate ground water was obtainable.

1.5 DESCRIPTION OF TOPOGRAPHY AND SOILS

Topography - According to information obtained from the U.S. Geological Survey (USGS) 7.5 Minute Series Topographic Map of the Canton East and West Quadrangles (various dates) and the GeoPlus Physical Settings Maps section in the Phase I ESA, the Site slopes very gently from south to north with elevations ranging from 1,040 feet above mean sea level (AMSL) at Site A to 1,032 AMSL at Ross Ave NE. According to the Phase 1 ESA GeoSearch Radius and Physical Settings report, the centroid of the Site is listed at an elevation of 1,040 feet AMSL. No lakes or ponds were observed on Site. Nimishillen Creek is located on the western border of the Site.

Geology - Geologic information in the Phase 1 ESA GeoSearch Physical Setting Maps Report specifies that sediments beneath the Site have been identified as part of the Pennsylvanian Era and composed of the Allegheny and Pottsville Groups. According to the U.S. Department of Agriculture Soil Conservation Service's Stark County Soil Survey Geographic (SSURGO) Database, the Site is underlain by Chili-Urban land complex, undulating and Chili-Urban land complex, rolling. It is described as having moderately well-drained soils. Evidence of historic fill placement was observed in numerous areas.

Hydrology - Surface water flow appears to flow from south to north and gradually to the west towards Nimishillen Creek which abuts three of the parcels in Site B. No other streams were observed.

Hydrogeology - Groundwater across the Site is anticipated to flow to the west/northwest towards the East Branch of Nimishillen Creek. The GeoSearch GeoPlus Water Well Report did identify 3 water wells within a half-mile radius of the Site. None were field identified during the work.

2.0 SUBSURFACE ASSESSMENT ACTIVITIES

2.1 SITE SAFETY

Field work was performed using United States Environmental Protection Agency (USEPA) modified Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots. A tailgate safety briefing was performed by the lead ES field representative and an ES Anticipated Hazards Analysis (AHA) safety form was filled out and signed by all parties participating in the field work activities. In addition, the Ohio Utility Protection Services was contacted and requested for location and markings for all utilities that the service was responsible for before commencing intrusive activities at the site.

2.2 SAMPLING ACTIVITIES

Boring locations were determined based upon the findings of the Phase 1 ESA performed by EnviroScience dated 5/11/2021 and discussed in Section 1.2 above. Sampling activities were performed in an attempt to obtain additional information pertaining to the RECs, HREC, and "Other Environmental Conditions" identified in the Phase 1 ESA investigation. (See Boring Location Map in Appendix A.)

Drilling - On June 7th and 8th, 2021, EnviroScience field personnel observed a subcontracted direct push drilling contractor (HZW Environmental) advance fourteen soil borings (designated B-1 through B-14) to maximum depths of either 15 feet bgs – B-2, B-4, B-5, B-7, B-8, B-9, B-10, B-12 or 20 feet bgs – B-1, B-3, B-6, B-11. The exceptions are: Boring B-13 was advanced to 3 feet bgs (refusal) and B-14 was advanced to 12.5' (refusal). Borings B-10, B-11, and B-12 were installed on PPN 218899 (South Greenspace). The remaining borings were installed on PPN 246322 in the main yard and building areas. (See Boring Logs in Appendix B).

Soil boring installation on June 7th was conducted using direct-push techniques via a Geoprobe® 7822DT and two-inch I.D. and 5.0-feet long tube soil samplers. Soil boring installation on June 8th was conducted with a smaller rig (Geoprobe 54LT) due to equipment breakdown on the larger unit. The tube samplers were lined with unused disposable acetate liners. EnviroScience field scientists collected soil samples continuously in 2.0-3.0-foot intervals from each boring for observation and field screening and selected one unsaturated soil sample from each soil boring for laboratory analysis.

Soil Sampling - Upon removal of the sampler from the borehole, all soil samples collected were split into two parts. Due to low recovery rates, all of the sample was placed in a polyethylene bag for screening analysis. After a stabilization period, each soil sample collected was screened in the field with a calibrated RAE MiniRae 3000 Photo Ionization Detector (PID) to detect volatile organic vapors in parts per million (ppm). EnviroScience field staff calibrated the PID in accordance with manufacturer's recommendations before commencing the field activities.

Based on the field screening results, EnviroScience selected soil samples from each boring for laboratory analysis. Soil samples submitted for analysis were chosen based on highest PID response and/or field observations pertaining to geologic conditions (e.g., samples above confining layers of soil or above the encountered soil/groundwater interface). Based on the absence of discernable contamination (e.g., visual staining or elevated PID readings), soil samples were selected to provide an appropriate spatial sample distribution. Soil descriptions as well as PID soil screening readings were recorded on the boring logs presented in Appendix B.

At the completion of field activities, HZW abandoned the borings with soil cuttings mixed with commercial bentonite sealant.

After packaging each sample in laboratory-provided containers, EnviroScience field staff recorded the sample time on each container label in permanent ink and place the filled containers in an ice-filled cooler accompanied by a completed chain-of-custody for transport to Eurofins Test America, Canton, a NELAP accredited and Ohio VAP certified laboratory located in North Canton, Ohio.

Groundwater Sampling - A temporary well casing was installed into boring B-1, B-3, B-6, and B-11 to facilitate the collection of groundwater samples. The temporary wells were constructed utilizing polyvinylchloride (PVC) screen and riser to assist in water accumulation and prevent the open borehole from collapsing. An in-situ grab water sample was collected on June 7, 2021 at the B-1 location. Water volume accumulated in the temporary well was low and only a VOC analytical set could be obtained and provided to the lab for analyses. B-3, B-6, and B-11 did not produce water so a groundwater sample was not collected. Upon completion of the in-situ grab groundwater samples, the PVC material was extracted, and the boring was subsequently plugged with an appropriately hydrated bentonite grout mixture.

Laboratory Analysis – Based on the recent ES Phase 1 ESA, a comprehensive sampling regime was proposed that would cover typical chemicals of concern (COCs) encountered in an industrialized environment. The soil samples were analyzed for the following constituents:

- Volatile organic compounds (VOC) via USEPA Method 8260B
- Polynuclear aromatic hydrocarbons (PAH) via USEPA Method 8270C
- Polychlorinated biphenyls (PCB) via USEPA Method 8082A
- RCRA eight Metals via USEPA Methods 6010D, 3050B, and 7471B

An In-situ grab groundwater sample from B-1 was analyzed for VOCs via USEPA Method 8260B.

3.0 FIELD INVESTIGATION RESULTS

3.1 GEOLOGY/HYDROGEOLOGY

In general, materials penetrated on the Site consisted of a fill layer (or disturbed native material) from surface level to a depth of 3.0 to 6.0 feet bgs. Depending on the location, the fill material was underlain by a variety of materials including black gravel, brown silt, gravel, silty sand and clays, and rock and brick fragments. The boring logs contained in Appendix B detail the observed soil stratigraphy encountered in each of the borings.

Groundwater was discerned only at B-1 at a depth of around 18.0 feet bgs. As mentioned above, an in-situ grab groundwater sample was collected from B-1 and submitted for analysis for VOCs.

3.2 FIELD SCREENING

The PID field screening results are summarized for each location on the individual boring logs and in Table B-1 presented in Appendix B. The majority of readings were only negligibly above background levels. The highest reading was 18.5 ppm in Boring 3 in which the extracted material at 7.5 feet bgs exhibited a petroleum odor during drilling operations. This is still considered to be a relatively low reading. Further, analytical data did not indicate the presence of any discernable VOC or PAH contamination in Boring 3.

4.0 ANALYTICAL RESUTS

4.1 INTERPRETATION OF DATA

The following discussion describes and summarizes the analytical results of the limited Phase II ESA. Analytical data are summarized in Appendix C, "Summary of Detected Analytes in the Soils" Tables C-1, C-2, and C-3. The full Eurofins Test America Analytical Laboratory Report and chain-of-custody records are contained in Appendix D.

As a preliminary method of comparison and review, the detected Site COC concentrations were compared to the latest OEPA VAP risk-based Single Chemical GDCSS promulgated under the Appendix to Rule 3745-300-08 of the OAC and effective October 7, 2019, as well as the OEPA's Supplemental Criteria as provided in the Chemical Information Database and Applicable Regulatory Standards (CIDARS) dated October 2019.

The Ohio VAP standards include standards for residential land use, commercial/industrial land use, and construction/excavation worker activities. Direct contact to soil is defined as the ingestion, dermal contact, and outdoor inhalation of the soil's contaminants. Residential land use standards are the most stringent and therefore have been used in Tables C-1, C-2, and C-3 "Summary of Detected Constituents in Soils" contained in Appendix C for comparison purposes in this investigation.

Commercial/Industrial and Construction/Excavation Worker Ohio VAP GDCSS standards may be found on the OEPA website: https://epa.ohio.gov/Portals/30/rules/2019-Final-Filed/3745-300-08%20Appendix%201.pdf.

Please note that for the COC analyzed onsite, OEPA's GDCSS are for single chemicals and typically must be adjusted if undertaking a project under Ohio VAP rules to evaluate the cumulative exposure for multiple chemicals, if present on a property. Although the Site COC are compared to the Ohio VAP GDCSS, not all demonstrations were made pursuant to the Ohio VAP rules, since the scope of this investigation consists of a limited screening level Phase II ESA assessment and not a full VAP compliant analysis.

All of the maximum detected Site soil COC concentrations are well below the Ohio EPA's VAP risk-based generic direct contact numerical standards (GDCNS) for residential land use, with the exception of the following:

- Boring B-13 – Benzo(a)Pyrene
- Surface Soil Sample SS-1 – Benzo(a)Pyrene
- Boring B-9 – Lead
- Boring B-10 – Lead
- Borings B-2, B-4, B-6, B-7, B-10, B-11, B-14 - Arsenic

4.2 SOIL SAMPLE RESULTS

Volatile Organic Compounds (VOC): A review of the soil laboratory analytical data indicates that nearly all of the VOC concentrations were below laboratory reporting limits, with a few isolated concentrations just above reporting limits. All of the maximum detected site soil VOC concentrations are well below OEPA's VAP risk-based GDCSS for residential land use activity. This data is tabulated in Appendix C, Table C-1.

Polynuclear Aromatic Hydrocarbons (PAH): A review of the soil laboratory analytical data indicates that low-level PAH compounds above laboratory reporting limits were identified in about half of the soil samples taken. The following PAH concentrations exceeded OEPA's VAP risk-based GDCSS for residential land use activity:

Benzo(a)Pyrene - in B-13 detected at 7700 ug/kg. The Ohio VAP GDCNS for Residential Land Use is 2300 ug/kg. The Commercial/Industrial Land Use GDCNS is 62,000 ug/kg. B-13 was taken inside the large canopy building in the vicinity of the elevated transformer. Drill bit refusal was only 3' deep so the sample was taken at that depth bgs.

Benzo(a)Pyrene - in SS-I was detected at 2500 ug/kg. The Ohio VAP Residential GDCNS is 2300 ug/kg. The Commercial/Industrial GDCNS is 62,000 ug/kg. SS-1 consisted of a soil surface sample in the area of an apparent small spill of an unknown petroleum product near the 8th Street NE guardrail

This data is tabulated in Appendix C, Table C-2.

Polychlorinated biphenyls (PCB): A review of the soil laboratory analytical data indicates that nearly all PCB concentrations were below laboratory reporting limits except for two low-level detections at B-13.

PCB - Aroclor 1260 at B-13 was detected at 510 ug/kg and Aroclor 1242 at B-13 was detected at 71 ug/kg. The Ohio VAP GDCNS for Residential Land Use is 4800 ug/kg. B-13 was located inside the large canopy building in the vicinity of the elevated transformer. Drill bit refusal was only 3' deep so that was where the sample was taken.

B-14 a short distance away, had no detectable PCB concentrations with the sample taken at 7' to 10 bgs.

This data is tabulated in Appendix C, Table C-2.

RCRA Metals: A review of the soil laboratory analytical data indicates that the majority of RCRA Metals concentrations detected in the soil samples were at levels indicative of background concentrations naturally occurring in Ohio soils. Moreover, several concentrations were listed at close to or below reporting limits. With the exception of the two lead concentrations described below and arsenic concentrations above residential standards in seven of the boring locations, all of the maximum detected site soil COC concentrations are below OEPA's VAP risk-based GDCSS for residential land use activity. This data is tabulated in Appendix C, Table C-3.

Lead 1 – B-9 detected at 1600 mg/kg. The Ohio VAP Residential GDCNS is 400 mg/kg. The Commercial/Industrial GDCNS is 800mg/kg. B9 was part of a five boring cluster in the vicinity of the above ground diesel tank outside of the brick maintenance building. The sample was taken shallow between surface and 2' in depth. All other lead readings in the vicinity were below the VAP Residential GDCNS, none being close to the 1600 mg/kg. The boring log indicates fill, brick and gravel, gravelly sand with angular rock fragments.

Lead 2 – B-10 detected at 2700 mg/kg. The Ohio VAP Residential GDCNS is 400 mg/kg. The Commercial/Industrial GDCNS is 800mg/kg. B-10 was the southernmost boring out of three borings taken on Parcel 218899. The sample was taken from 12.5 to 15' bgs. None of the other samples in this cluster of borings had elevated lead above the VAP Residential GDCNS. The

boring log indicates fill, concrete, brick fragments, glass, gravelly sand with angular rock fragments.

Arsenic – Arsenic was detected above Ohio VAP GDCSS thresholds for residential land use of 14 mg/kg (ppm) at B-2, B-4, B-6, B-7, B-10, B-11, B-14 but are well below the GDCSS for commercial/industrial use (100 mg/kg) and are below the commercial land use with high-frequency child exposure GDCSS for arsenic of 46 mg/kg. An example of commercial use with high-frequency child exposure would be a school (refer to OAC 3745-300-01).

The arsenic levels detected onsite are generally within the range of background levels often encountered in Northeastern Ohio, according to a variety of studies and papers generated over the past 25 years on naturally occurring background metals concentrations of soils in Ohio.

4.3 GROUNDWATER SAMPLE RESULTS

With the exception of the following low-level COC detections described below, VOCs were not detected above laboratory reporting limits in the groundwater sample collected from boring B-1.

- Xylene at 3.6 ug/L, trichloroethene at 7.9 ug/L, and acetone at 24 ug/L were detected above the laboratory reporting limits (RL)
- ethylbenzene at 0.58J and toluene at 0.62J were detected above the laboratory method detection limits (MDL), but below the laboratory RL

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions - In summary, a total of fourteen soil borings were installed at the property located at 1738 and 1800 9th Street NE (and in adjacent outlying areas), Canton, Stark County Ohio to assess the RECs, HREC, and other environmental conditions identified within the *Phase 1 Environmental Site Assessment, Middle Branch Redevelopment Area, Phase 1 (1738,1800 9th Street NE, Canton, Ohio 44702), Middle Branch Greenspace Area, Phase 2, EnviroScience, Inc, 5/11/2021.*

Lab analysis of soil samples taken during the investigation revealed the following:

Lead - Lead concentrations exceeded the Ohio VAP Residential GDCNS of 400 mg/kg for Lead in Borings B-9 (1600 mg/kg) and B-10 (2700 mg/kg). The concentrations at these two locations also exceeded the Commercial/Industrial GDCNS of 800mg/kg.

Benzo(a)Pyrene - Benzo(a)Pyrene concentrations exceeded the Ohio VAP Residential GDCNS for Benzo(a)Pyrene of 2300 ug/kg in Boring B-13 (7700 mg/kg) and in SS-1 (2500mg/kg) The Commercial/Industrial GDCNS is 62,000 ug/kg.

Arsenic - Arsenic in 7 of the 15 soil samples taken onsite are above Ohio VAP GDCSS thresholds for residential land use of (14 mg/kg) but are all well below the GDCSS for commercial/industrial use of 100 mg/kg, and are below the commercial land use with high-frequency child exposure GDCSS for arsenic of 46 mg/kg. An example of commercial use with high-frequency child exposure would be a school (refer to OAC 3745-300-01).

The arsenic levels detected onsite are generally within the range of background levels often encountered in Northeastern Ohio, according to a variety of studies and papers generated over the past 25 years on naturally occurring background metals concentrations of soils in Ohio.

Recommendations – Based on the limited soil borings advanced and data collected, the majority of samples taken did not indicate the presence of COCs in the subsurface at a level of concern.

However, isolated areas of lead contamination in the soil were discovered above the Ohio VAP Residential GDCNS and Commercial/Industrial GDCNS. It is EnviroScience's opinion that any future development or site improvements that involves excavation and/or other disturbances may result in the need to conduct additional investigation to ensure proposed work areas do not require special handling and/or management of potentially contaminated subsurface materials.

In addition, a minor surface spill of what appears to be a petroleum based constituent (PR-1) was observed in the vicinity of surface sample SS-1. It is recommended that this spill be cleaned up and disposed of appropriately.

6.0 LIMITATIONS

This report is an instrument of service of EnviroScience. The report was prepared for and is intended for the exclusive use of the City of Canton. The report contents may not be relied upon by any party other than the City of Canton without the express written permission of EnviroScience. The scope of services was not intended to provide the information needed to completely establish the quantity or extent of impacted media present at the site or to determine the cost of remediating the site. The scope of services EnviroScience implemented was based, in part, on rules and regulations that EnviroScience understood to be current or expected at the time EnviroScience developed its proposal. Changes in regulations, interpretations, and/or enforcement policies may occur at any time and such changes could affect the need for and extent of remediation, if required. Any additional information about this site that becomes available should be provided to EnviroScience for its review, so EnviroScience can modify its recommendations as necessary.

The findings and conclusions presented in this report are based on conditions encountered at the locations sampled on the date of EnviroScience's investigation and should not be relied upon to precisely represent conditions at any other time. EnviroScience's findings and conclusions included in this report are based on EnviroScience's observations of existing site conditions and the results of a limited program of subsurface exploration, sample screening, and chemical testing. The concentration of contaminants measured may not be representative of conditions between locations sampled. Recognize that conditions may change at any sampled or un-sampled location as a function of time in response to natural conditions, chemical reactions, and/or other events, including but not limited to, altering site grades and other redevelopment activities. Conclusions about site conditions under no circumstances comprise a warranty that conditions in all areas within the site are of the same condition as those sampled.

EnviroScience's professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by reputable environmental consultants undertaking similar studies and practicing in this locality. No other warranty, expressed or implied, is intended or made with respect to this report or EnviroScience's services. This assessment was not exhaustive, and users of this report should consider the scope and limitations of, and related to, these services when developing their opinions as to environmental risks associated with the subject property.

7.0 REFERENCES

Phase 1 Environmental Site Assessment, Middle Branch Redevelopment Area, Phase 1 (1738,1800 9th Street NE, Canton, Ohio 44702), Middle Branch Greenspace Area, Phase 2, EnviroScience, Inc, 5/11/2021.

OEPA VAP risk-based Single Chemical GDCSS promulgated under the Appendix to Rule 3745-300-08 of the OAC and effective October 7, 2019.

OEPA Supplemental Criteria as provided in the Chemical Information Database and Applicable Regulatory Standards (CIDARS) dated October 2019.

Eurofins Test America, Lab Analysis Report, Laboratory Job ID: 240-150999-1,Client Project/Site: EnviroScience, Inc., Middle Branch Phase II.

Appendix A

Figures

Figure 1. Location of Site on Highway Map of Stark County, Ohio. Middlebranch Phase 1.

Project Area

0 750 1,500 3,000 Feet

0 250 500 1,000 Meters

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Date: 4/15/2021 Path: C:\Users\Anna Giordano\Desktop\GIS_Middlebranch\Map1_Location.mxd

Basemap courtesy of Esri.

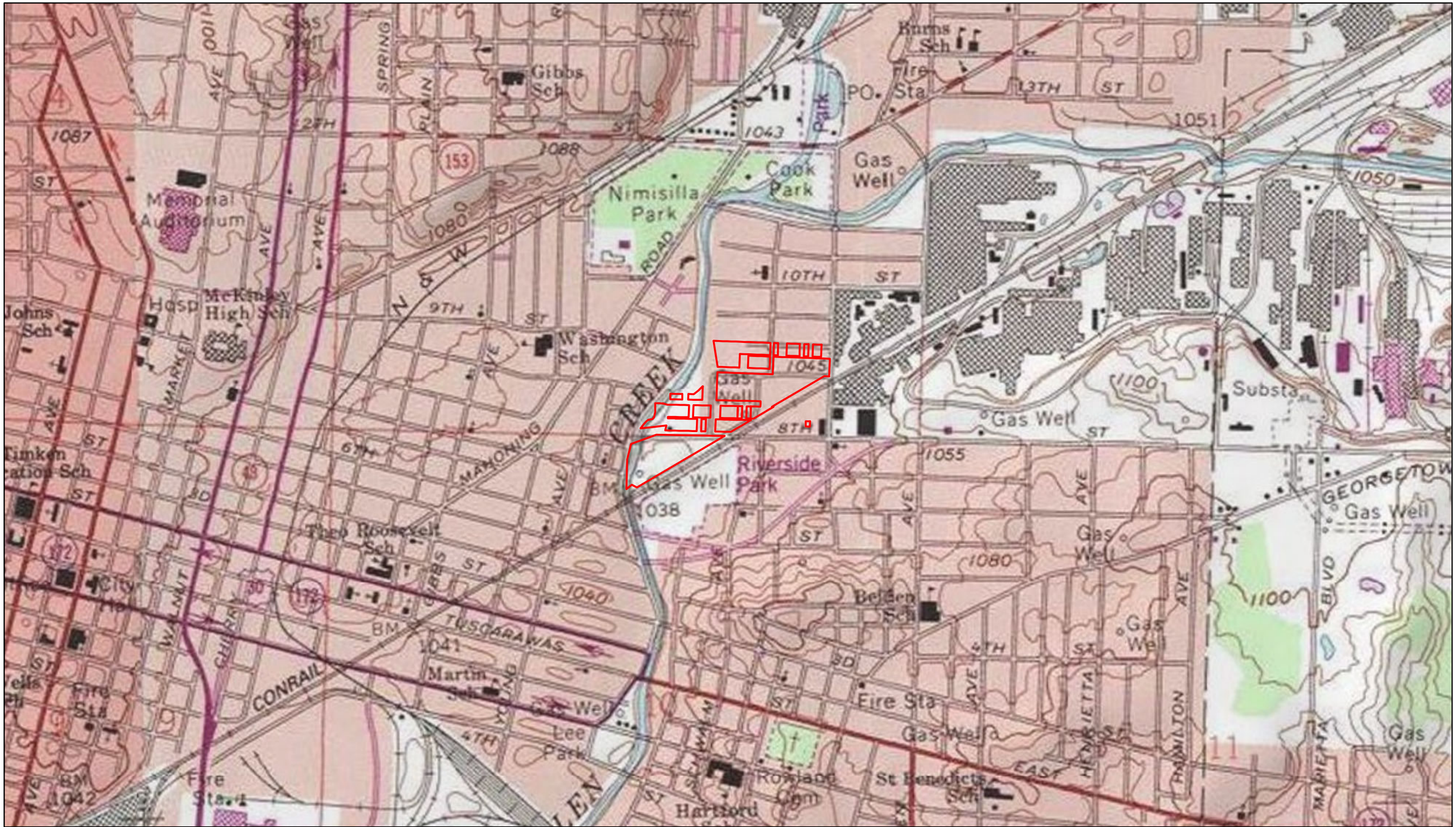

Figure 2. USGS 7.5-minute Topographic Map of Canton East Quadrangle. Middlebranch Phase 1.

Project Area

0 750 1,500 3,000 Feet

0 250 500 1,000 Meters

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Date: 4/15/2021 Path: C:\Users\Anna Giordano\Desktop\GIS_Middlebranch\Map2_Topo.mxd

Basemap courtesy of National Geographic Society (2013).

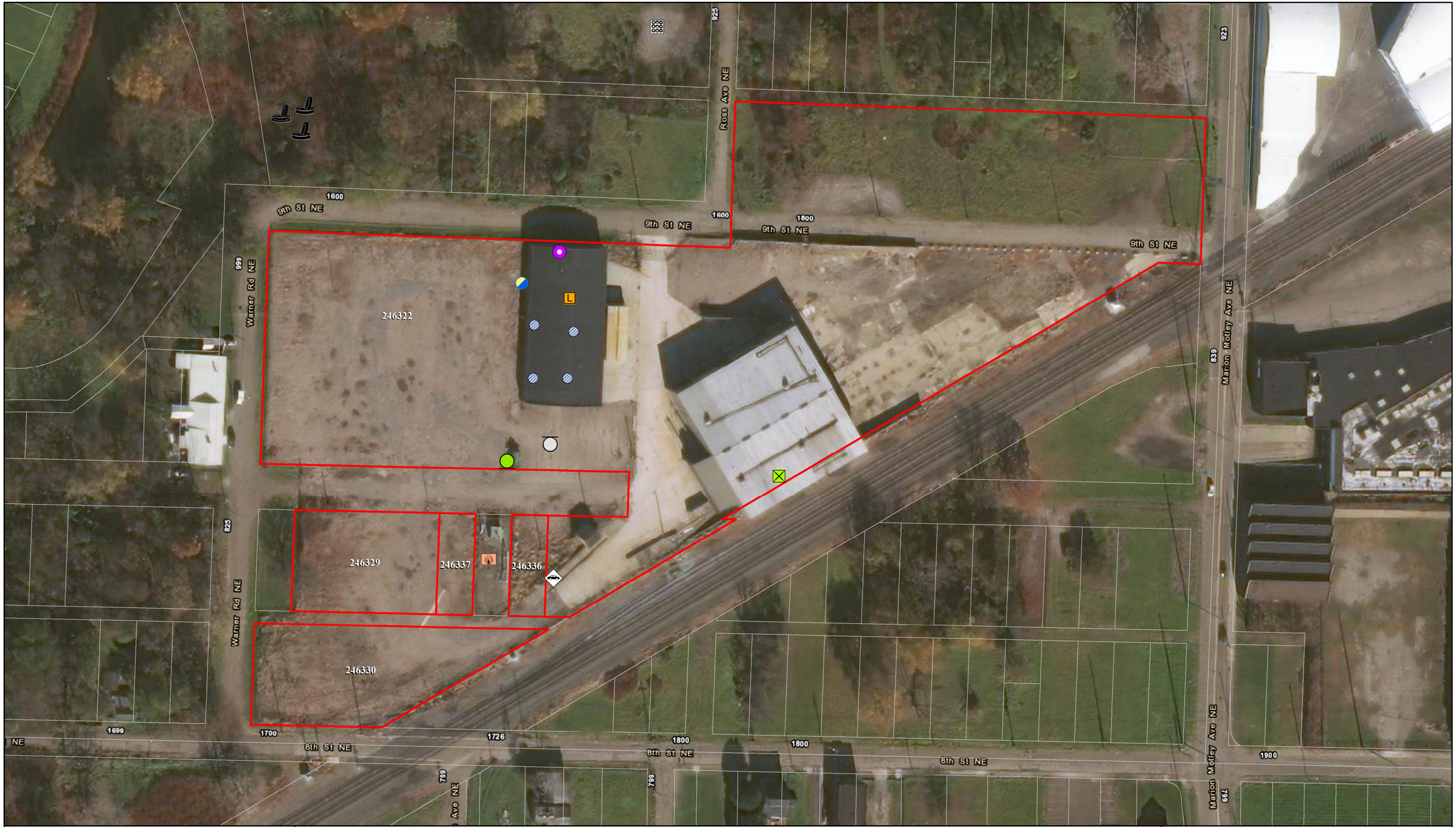

Figure 3.
Features Identified During Site Visit.
Middlebranch Phase 1.

AST - 6,000 gal diesel
Floor Drain
Former USTs Location
Dominion Gas Transfer Facility
Gravel Pad
Hydraulic Air Compressor
Hydraulic Lift
Oil/Water Separator
Piles of Tires
Transformer
Vehicle Scale
Parcel Boundary
Project Parcel (Phase 1)

0 50 100 200 Feet
0 15 30 60 Meters

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Date: 8/2/2021 Path: P:\10_Projects\C\Canton_City_of\490CS\14612_14830_Middlebranch\GIS\Map1_Site_Phase1.mxd

Basemap courtesy of Esri.

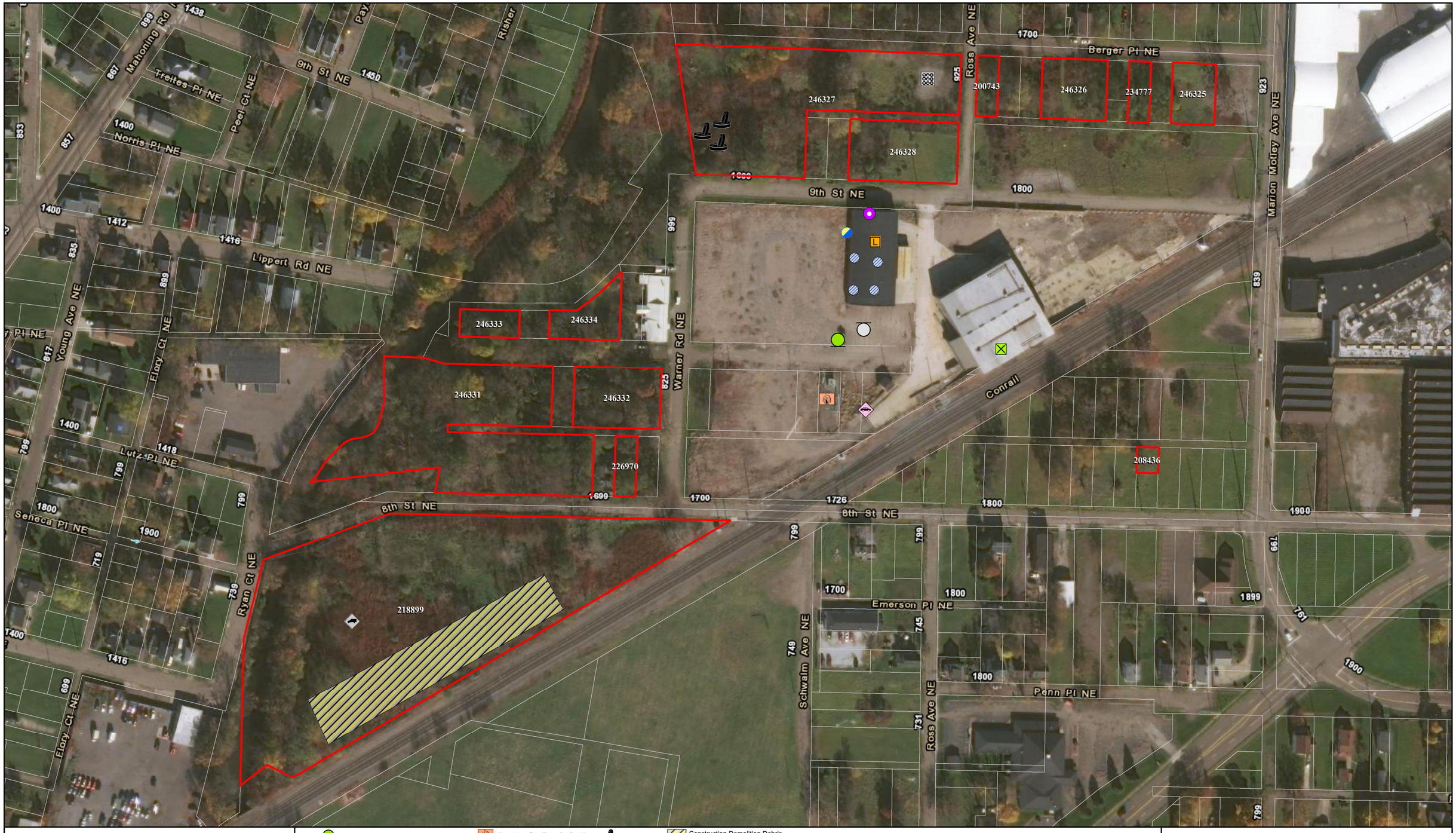

Figure 3.
Features Identified During Site Visit.
Middlebranch Phase 2.

- AST - 6,000 gal diesel
- Floor Drain
- Former Vacuum Cleaner Plant/Former Truck Repair Facility
- Former USTs Location
- Dominion Gas Transfer Facility
- Gravel Pad
- Hydraulic Air Compressor
- Hydraulic Lift
- Oil/Water Separator
- Piles of Tires
- Transformer
- Vehicle Scale
- Construction Demolition Debris
- Parcel Boundary
- Project Parcel (Phase 2)

0 75 150 300 Feet

0 25 50 100 Meters

EnviroScience
Excellence In Any Environment

Path: P:\10_Projects\C\Canton_City_of\490CS\14612_14830_Middlebranch\GIS\Map1_Site_Phase2.mxd

Date: 8/2/2021

Basemap courtesy of Esri.

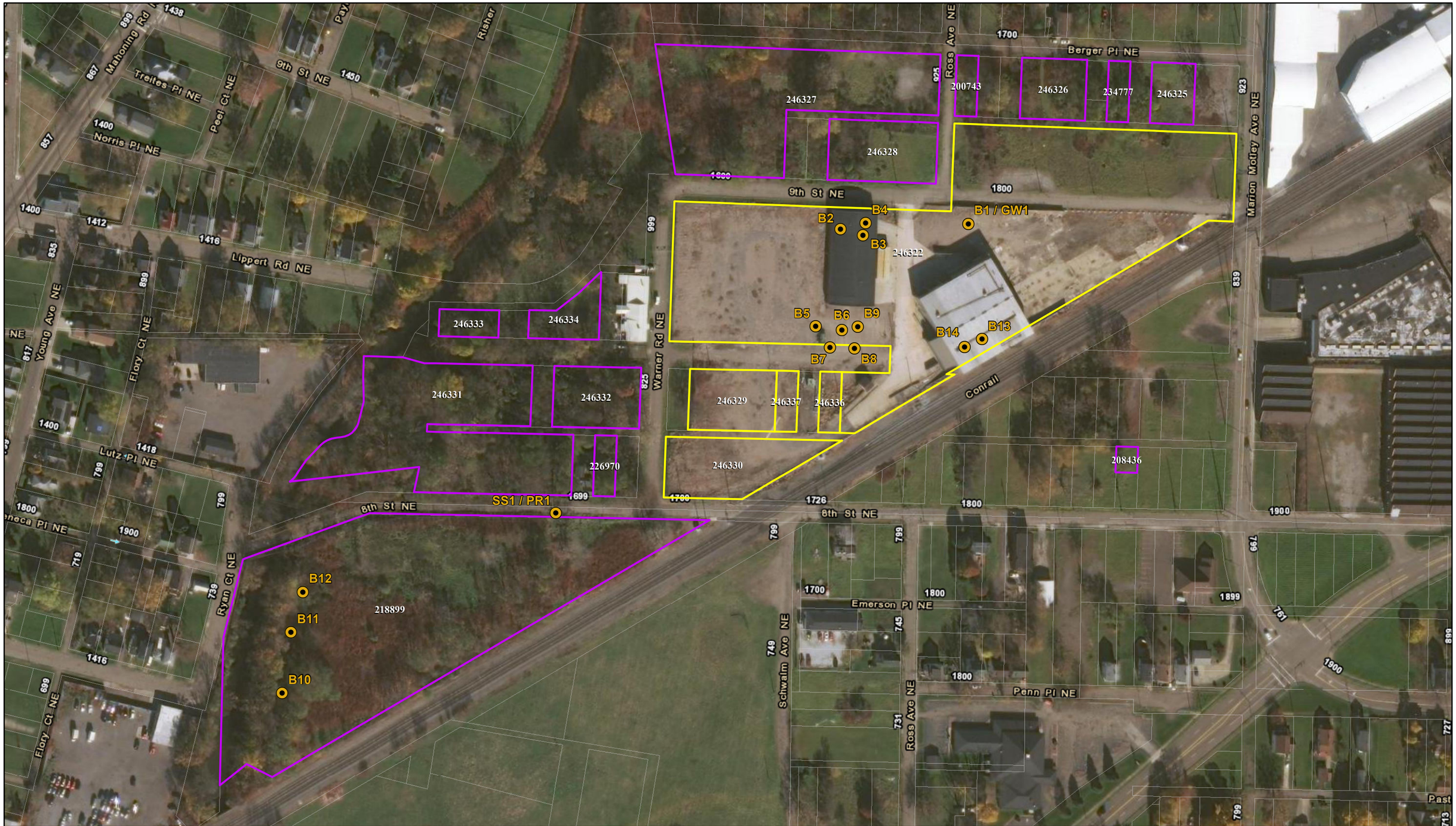

Figure 4.
Boring Locations.
Middlebranch Phase 1 and 2.

Boring Location
Parcel Boundary
Site A Parcel (Phase 1)
Site B Parcel (Phase 2)

0 100 200 400 Feet
0 30 60 120 Meters

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Date: 7/7/2021 Path: C:\Users\Anna Giordano\Desktop\GIS_Middlebranch\Map1_BoringLocation.mxd

Basemap courtesy of Esri.

Appendix B

Soil Boring Logs and Well Construction Details

Headspace Readings and Percent Recovery - Table B-1

Project: Middle Branch Development		**Boring:** B-1
Geologist: Craig Kowalski		**Sheet:** 1 of 1
Driller: HZW Environmental Consultants, LLC		**Date:** June 7, 2021
		Location: 1800 9th Street NE Canton, OH
Method: Direct Push Geoprobe 7822 DT		Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Gravel		
0		Fill – Sand: Dark Brown, gravel, loose, soft, and dry.	9.8	75%
2		Becomes silty with some clay, minor sand, 1.0-inch thick black staining at 4'.	7.8	75%
4		5.0' Red silty sand, loose and moist.		
6		Silty Sand - Brown with some rounded rock fragments, loose, and damp.	12.5 Lab Sample	40%
8			11	40%
10		Medium grained and moist at 12'.	11.9	40%
12		Large grained, loose and dry.	10	40%
14				
16		Brown sand, loose and moist.	9.4	40%
18		Becomes brown silty sand with some large rock fragments.	11.5	40%
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Temporary Well set at 19.5' and groundwater collected for analysis.
3. Once drilling was complete, the borehole was decommissioned with bentonite.

Project: Middle Branch Development		**Boring:** B-2
Geologist: Craig Kowalski		**Sheet:** 1 of 1
Driller: HZW Environmental Consultants, LLC		**Date:** June 7, 2021
		Location: 1800 9th Street NE Canton, OH
Method: Direct Push Geoprobe 7822 DT		Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Concrete		
0		Fill – Dark Brown sand: with gravel, brick, loose, and dry.	10.5	40%
2				
4			8.6	40%
6			7.5	30%
8		Becomes dark brown silty clay. Glass at 9.0' ½" thick	12.4	30%
10		Silty Clay - Brown, some sand and dry.	17.5	60%
12				
14		Silty Sand – Brown, large rounded rock and damp.	17.8 Lab Sample	60%
16				
18				
20				

1. Total depth of borehole is 15 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-3
Sheet: 1 of 1
Date: June 7, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Concrete		
0		Fill – Dark Brown, Silt with some gravel and slag, loose, and dry.	12.2	20%
2				
4			16	20%
6		Petroleum odor at 7.5', glass fragments at 7.5'.	18.5	20%
8		Silty Clay - Dark Brown, soft and damp.	11.5	20%
10		Some gray mottling.	12.4	60%
12		Silty Sand – Brown, medium grained with some rounded rock.	9.8	60%
14		Large grained sand with rock fragments.	6.4	50%
16				
18		Dark stained 18'	9.8 Lab Sample	50%
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

Project: Middle Branch Development		**Boring:** B-4
Geologist: Craig Kowalski		**Sheet:** 1 of 1
Driller: HZW Environmental Consultants, LLC		**Date:** June 7, 2021
		Location: 1800 9th Street NE Canton, OH
Method: Direct Push Geoprobe 7822 DT		Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Concrete		
0		Fill – Dark Brown silt: with brick, concrete and dry.	8.4	30%
2				
4		Dark stainining at 4.0'.	7.4	30%
6		Becomes silty sand.	10.4	15%
8		Silty Clay - Brown, some gray mottling.	5.1	15%
10			6.8 Lab Sample	50%
12				
14		Silty Sand – Brown, large rounded rock and damp.	5	50%
16				
18				
20				

1. Total depth of borehole is 15 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project:	Middle Branch Development	**Boring:**	B-5
Geologist:	Craig Kowalski	**Sheet:**	1 of 1
Driller:	HZW Environmental Consultants, LLC	**Date:**	June 7, 2021
Method:	Direct Push Geoprobe 7822 DT	**Location:**	1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Gravel		
0		Fill – Dark Brown silt:, with brick, concrete and dry.	15.2 Lab Sample	50%
2				
4		Dark staining at 4.0’.	12.1	50%
6		Becomes silty sand.	4.4	45%
8		Silty Clay - Brown, some gray mottling.	5.3	45%
10			6.4	70%
12				
14		Silty Sand – Brown, large rounded rock and damp.	11.5	70%
16				
18				
20				

1. Total depth of borehole is 15 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-6
Sheet: 1 of 1
Date: June 7, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Gravel		
0		Fill – Black gravel: with some silt, loose, and dry.	5.5	40%
2		Some silt soft.	5.1	40%
4				
6		Some rock fragments.	7.7	40%
8		Silty Clay - Dark Brown, soft and damp.	7.8	40%
10		Some sand.	13.3 Lab Sample	60%
12		Silty Sand – Brown, loose with rock fragments.	9.6	60%
14				
16		Becomes gray sand with rock fragments.	7.6	40%
18		Tan/Brown sand and gravel large rock fragments.	4.8	40%
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-7
Sheet: 1 of 1
Date: June 7, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Gravel		
0		Fill – Black gravel: loose and Dry.	7.4	25%
2		Some brick and silt loose and dry.	7.3	25%
4				
6		Silt – Brown, some sand loose and dry.	7.6	25%
8		Silty Clay - Dark Brown, minor rock fragments and damp.	8.9	25%
10		Some large rock fragments.	15.5	35%
12				
14		Silty Sand – Brown, loose with large rock fragments.	11.9 Lab Sample	35%
16				
18				
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-8
Sheet: 1 of 1
Date: June 7, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Stone and Asphalt		
0		Fill – Black, gravel, loose, and dry.	9.4	40%
2		Becomes silty clay with gravel, loose and dry.	9.5	40%
4		Some sand loose and dark staining at 7.0.'	12.7	40%
6		Clayey Silty - Brown, some gray mottling and damp.	12.6	40%
8		Becomes dark brown silty clay with some sand.	12.4	50%
10		Some sand dark staining with slight odor.	9.6 Lab Sample	50%
12				
14				
16				
18				
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-9
Sheet: 1 of 1
Date: June 7, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Stone and Asphalt		
0		Fill – Black gravel, loose, and dry.	9.7 Lab Sample	40%
2				
		Some brick and gravel.	5.7	40%
4				
6		Red brick fragments, loose and dry.	7.5	15%
8		Silty Clay - Brown, some gray mottling and damp.		
10			6.9	60%
12				
		Gravely Sand – Brown with angular rock fragments.		
14			5.1	60%
16				
18				
20				

1. Total depth of borehole is 15 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project:	Middle Branch Development	**Boring:**	B-10
Geologist:	Craig Kowalski	**Sheet:**	1 of 1
Driller:	HZW Environmental Consultants, LLC	**Date:**	June 8, 2021
		Location:	1800 9th Street NE Canton, OH Limited Phase II
Method:	Direct Push Geoprobe 7822 DT		

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Grass		
0		Fill – Brown silty clay, loose and dry.	10.4	60%
2		Concrete 2'-3.5'.	7	60%
4				
6		Becomes silty with brick fragments.	8.3	15%
8				
10		Brick and gravel fragments with glass at 13.0'.	5	20%
12				
14		Gravely Sand – Brown with angular rock fragments.	4.3 Lab Sample	20%
16				
18				
20				

1. Total depth of borehole is 15 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-11
Sheet: 1 of 1
Date: June 8, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Grass		
0		Fill – Brown silt with some gravel, loose, and dry.	14.1	40%
2				
4			13.3 Lab Sample	40%
6		Crushed rock, loose and dry.	6.4	35%
8			3.9	35%
10		Brick fragments, silt and gravel.	9.1	40%
12				
14		Silty gravel with large rock fragments.	10.3	40%
16		Silty Sand – Brown, medium grained with some rounded rock.	12.8	25%
18				
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Craig Kowalski
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-12
Sheet: 1 of 1
Date: June 8, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Grass		
0		Fill – Brown silty clay some rounded rock fragments, loose and dry.	9.1	40%
2				
4			7.4	40%
6		Asphalt, gravel loose and dry.	9.2	45%
8		Silty Clay - Brown, some sand and damp.	11.5	45%
10			10.7 Lab Sample	60%
12		Becomes gray.		
		Gravely Sand – Tan/Brown with angular rock fragments.		
14			8.2	60%
16				
18				
20				

1. Total depth of borehole is 20 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development
Geologist: Henry Fahnenbruck
Driller: HZW Environmental Consultants, LLC
Method: Direct Push Geoprobe 7822 DT

Boring: B-13
Sheet: 1 of 1
Date: June 9, 2021
Location: 1800 9th Street NE Canton, OH Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Gravel		
0		Fill – Gray concrete: with rock fragments and gravel, loose and dry.	3.1	20%
2				
4		Refusal at 3'.		
6				
8				
10				
12				
14				
16				
18				
20				

1. Total depth of borehole is 3 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

HZW Environmental Consultants

Project: Middle Branch Development		**Boring:** B-14
Geologist: Henry Fahnenbruck		**Sheet:** 1 of 1
Driller: HZW Environmental Consultants, LLC		**Date:** June 9, 2021
		Location: 1800 9th Street NE Canton, OH
Method: Direct Push Geoprobe 7822 DT		Limited Phase II

Depth (ft)	Lithology	Description	PID Field Screening Results (ppm)	Recovery (%)
		Ground Surface: Concrete		
0		Fill – Black gravel: loose and dry.	1.7	75%
2				
4			2.6	75%
6		Becomes brown sandy silt with gravel.	3.7	20%
8			3.8 Lab Sample	20%
10		Orange seam at 10’ 2” thick.		
12			2	35%
		Refusal at 12.5’		
14				
16				
18				
20				

1. Total depth of borehole is 12.5 feet below ground surface (bgs).
2. Once drilling was complete, the borehole was decommissioned with bentonite.

Table B-1 Headspace and % Recovery

Depth (bgs)	B1* Headspace (ppm)	B1 % Recovery	B2 Headspace (ppm)	B2 % Recovery	B3 Headspace (ppm)	B3 % Recovery	B4 Headspace (ppm)	B4 % Recovery	B5 Headspace (ppm)	B5 % Recovery	B6 Headspace (ppm)	B6 % Recovery	B7 Headspace (ppm)	B7 % Recovery	B8 Headspace (ppm)	B8 % Recovery	B9 Headspace (ppm)	B9 % Recovery	B10 Headspace (ppm)	B10 % Recovery	B11 Headspace (ppm)	B11 % Recovery	B12 Headspace (ppm)	B12 % Recovery	B13 Headspace (ppm)	B13 % Recovery	B14 Headspace (ppm)	B14 % Recovery
0-2.5'	9.8	75	10.5	40	12.2	20	8.4	30	**15.2**	50	5.5	40	7.4	25	9.4	40	**9.7**	40	10.4	60	14.1	40	9.1	40	**3.1****	NA	1.7	75
2.5-5'	7.8		8.6		16		7.4		12.1		5.1		7.3		9.5		5.7		7		**13.3**		7.4		NA		2.6	
5-7.5'	**12.5**	40	7.5	30	18.5	20	10.4	15	4.4	45	7.7	40	7.6	25	12.7	40	7.5	15	8.3	15	6.4	35	9.2	45	NA	**NA**	3.7	20
7.5-10'	11		12.4		11.5		5.1		5.3		7.8		8.9		12.6						3.9		11.5		NA		**3.8**	
10-12.5'	11.9	40	17.5	60	12.4	60	**6.8**	50	6.4	70	**13.3**	60	15.5	35	12.4	50	6.9	60	5	20	9.1	40	**10.7**	60	NA	NA	2***	NA
12.5-15'	10		**17.8**		9.8		5		11.5		9.6		**11.9**		**9.6**		5.1		**4.3**		10.3		8.2		NA		NA	
15-17.5'	9.4	40	NA	NA	6.4	50	NA	NA	NA	NA	7.6	40	NA	NS	NA	NA	NA	NA	NA	NA	12.8	25	NA	NA	NA	NA	NA	NA
17.5-20	11.5		NA		**9.8**		NA		NA		4.8		NA		NA		NA		NA				NA		NA		NA	

Bold *indicates sample collected*

*Groundwater sample collected from B1

** Refusal at 2.5'

*** Refusal at 12'

Appendix C

Table C-1, C-2, C-3 Summary of Detected Constituents in Soil

Table C-4 Summary of Detected Constituents in Ground Water

Table C-1 VOC Analytes	Ohio VAP - Residential Direct Contact Standard (ug/Kg)	B1 (ug/Kg)	B2 (ug/Kg)	B3 (ug/Kg)	B4 (ug/Kg)	B5 (ug/Kg)	B6 (ug/Kg)	B7 (ug/Kg)	B8 (ug/Kg)	B9 (ug/Kg)	B10 (ug/Kg)	B11 (ug/Kg)	B12 (ug/Kg)	B13 (ug/Kg)	B14 (ug/Kg)	SS1 (ug/Kg)	PR1 (ug/Kg)
1,1,1-Trichloroethane	640,000	<2.0	<1.9	<1.8	<2.2	<1.8	<2.2	<1.9	<1.8	<2.1	<2.0	<2.0	<2.5	<1.9	<2.0	<2.6	<730
1,1,2,2-Tetrachloroethane	15,000	<1.7	<1.5	<1.4 *3	<1.8 F2	<1.5	<1.8	<1.5	<1.5	<1.7 *3	<1.6	<1.6	<2.0	<1.5	<1.6	<2.1	<1,400
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	<1.5	<1.3	<1.3	<1.6	<1.3	<1.6	<1.3	<1.3	<1.5	<1.4	<1.5	<1.8	<1.3	<1.4	<1.9	<630
1,1,2-Trichloroethane	28,000	<1.3	<1.2	<1.1	<1.4	<1.2	<1.4	<1.2	<1.2	<1.4	<1.3	<1.3	<1.6	<1.2	<1.3	<1.7	<530
1,1-Dichloroethane	89,000	<0.80	<0.73	<0.70	<0.86	<0.72	<0.86	<0.73	<0.72	<0.84	<0.78	<0.79	<0.96	<0.73	<0.77	<1.0	<450
1,1-Dichloroethene	360,000	<2.1	<1.9	<1.8	<2.3	<1.9	<2.3	<1.9	<1.9	<2.2	<2.1	<2.1	<2.5	<1.9	<2.0	<2.7	<770
1,2,4-Trichlorobenzene	140,000	<2.9	<2.6	<2.5 *3	<3.1 F2	<2.6	<3.1	<2.6	<2.6	<3.0 *3	<2.8	<2.8	<3.5	<2.6	<2.8	<3.7	<1,200
1,2-Dibromo-3-Chloropropane	370	<4.2	<3.8	<3.6 *3	<4.5 F2	<3.8	<4.5	<3.8	<3.7	<4.4 *3	<4.1	<4.1	<5.0	<3.8	<4.0	<5.3	<2,100
Ethylene Dibromide	890	<0.89	<0.81	<0.78	<0.95	<0.80	<0.96	<0.81	<0.80	<0.93	<0.87	<0.87	<1.1	<0.81	<0.85	<1.1	<740
1,2-Dichlorobenzene	380,000	<1.3	<1.2	<1.1 *3	<1.4 F2	<1.2	<1.4	<1.2	<1.2	<1.3 *3	<1.3	<1.3	<1.5	<1.2	<1.2	<1.6	<1,100
1,2-Dichloroethane	11,000	<0.89	<0.81	<0.78	<0.95	<0.81	<0.96	<0.81	<0.80	<0.93	<0.87	<0.87	<1.1	<0.81	<0.85	<1.1	<440
1,2-Dichloropropane	39,000	<0.98	<0.89	<0.86	<1.1	<0.89	<1.1	<0.89	<0.88	<1.0	<0.96	<0.96	<1.2	<0.89	<0.94	<1.3	<350
1,3-Dichlorobenzene	NE	<0.94	<0.86	<0.82 *3	<1.0	<0.85	<1.0	<0.86	<0.85	<0.99 *3	<0.92	<0.92	<1.1	<0.86	<0.90	<1.2	<430
1,4-Dichlorobenzene	65,000	<1.0	<0.93	<0.89 *3	<1.1 F2	<0.92	<1.1	<0.93	<0.91	<1.1 *3	<1.0	<1.0	<1.2	<0.93	<0.98	<1.3	<520
2-Butanone (MEK)	28,000,000	<4.1	<3.7	9.1 J	<4.4	<3.7	<4.4	<3.7	6.5 J	<4.3	<4.0	<4.0	48	<3.7	<3.9	<5.2	<1,500
2-Hexanone	NE	<4.7	<4.3	<4.1	<5.1 F2	<4.3	<5.1	<4.3	<4.2	<4.9	<4.6	<4.6	<5.7	<4.3	<4.5	<6.0	<2,500
4-Methyl-2-pentanone (MIBK)	3,400,000	<4.3	<3.9	<3.7	<4.6 F2	<3.9	<4.6	<3.9	<3.9	<4.5	<4.2	<4.2	<5.2	<3.9	<4.1	<5.5	<2,200
Acetone	110,000,000	<24	<22	54	<26	37	<26	<22	46	<25	<24	<24	240	<22	<23	<31	<2,300
Benzene	28,000	<0.81	<0.73	<0.70	<0.86	<0.73	<0.87	<0.73	<0.72	<0.84	<0.79	1.1 J	<0.97	<0.73	<0.77	<1.0	<390
Dichlorobromomethane	7,300	<1.7	<1.6	<1.5	<1.9	<1.6	<1.9	<1.6	<1.6	<1.8	<1.7	<1.7	<2.1	<1.6	<1.7	<2.2	<570
Bromoform	460,000	<2.8	<2.5	<2.4	<3.0	<2.5	<3.0	<2.5	<2.5	<2.9	<2.7	<2.7	<3.3	<2.5	<2.7	<3.5	<2,100
Bromomethane	17,000	<4.8	<4.4	<4.2	<5.1	<4.3	<5.2	<4.4	<4.3	<5.0	<4.7	<4.7	<5.8	<4.4 *+	<4.6 *+	<6.1	<1,600
Carbon disulfide	740,000	<1.3	<1.2	6.4	<1.4	1.2 J	<1.4	<1.2	2.2 J	4.8 J	<1.3	<1.3	1.8 J	<1.2	<1.3	<1.7	<1,000
Carbon tetrachloride	16,000	<3.8	<3.4	<3.3	<4.0	<3.4	<4.0	<3.4	<3.4	<3.9	<3.7	<3.7	<4.5	<3.4	<3.6	<4.8	<960
Chlorobenzene	660,000	<1.1	<0.96	<0.92	<1.1	<0.96	<1.1	<0.96	<0.95	<1.1	<1.0	<1.0	<1.3	<0.96	<1.0	<1.3	<330
Chloroethane	2,100,000	<3.2	<2.9	<2.8	<3.4 *+ F1	<2.9	<3.4	<2.9	<2.8	<3.3	<3.1	<3.1 F1 *+	<3.8 *+	<2.9 *+	<3.0 *+	<4.0	<1,400
Chloroform	7,900	<0.91	<0.83	<0.79	<0.97	<0.82	<0.98	<0.83	<0.82	<0.95	<0.89	<0.89	<1.1	<0.83	<0.87	<1.2	<510
Chloromethane	280,000	<2.6	<2.4	<2.3	<2.8	<2.4	<2.8	<2.4	<2.4	<2.8	<2.6	<2.6	<3.2	<2.4	<2.5	<3.3 *+	<620
cis-1,2-Dichloroethene	43,000	<1.7	<1.6	<1.5	<1.8	<1.5	<1.8	<1.6	<1.5	<1.8	<1.7	<1.7	<2.1	<1.6	<1.6	<2.2	<370
cis-1,3-Dichloropropene	43,000	<3.3	<3.0	<2.9	<3.6	<3.0	<3.6	<3.0	<3.0	<3.5	<3.3	<3.3	<4.0	<3.0	<3.2	<4.2	<1,200
Cyclohexane	120,000	<1.6	<1.4	<1.4	<1.7	<1.4	<1.7	<1.4	<1.4	<1.7	<1.6	<1.6	<1.9	<1.4	<1.5	<2.0	<1,500
Chlorodibromomethane	130,000	<3.2	<2.9	<2.8	<3.4	<2.9	<3.5	<2.9	<2.9	<3.4	<3.1	<3.2	<3.9	<2.9	<3.1	<4.1	<1,100
Dichlorodifluoromethane	850,000	<1.1	<0.99	<0.95	<1.2	<0.99	<1.2	<0.99	<0.98	<1.1	<1.1	<1.1	<1.3	<0.99	<1.0	<1.4 *+	<500
Ethylbenzene	140,000	<1.2	<1.1	<1.1	<1.3	1.3 J	<1.3	<1.1	<1.1	<1.3	<1.2	<1.2	<1.5	1.5 J	<1.2	<1.5	<440
Isopropylbenzene	270,000	<2.2	<2.0	3.1 J	<2.4	<2.0	<2.4	<2.0	<2.0	<2.3	<2.2	<2.2	<2.7	<2.0	<2.1	<2.8	500 J
Methyl acetate	NE	<3.9	<3.6	<3.4	<4.2	<3.6	<4.2	<3.6	<3.5	<4.1	<3.8	<3.9	<4.7	<3.6	<3.8	<5.0	<1,600
Methyl tert-butyl ether	1,100,000	<2.3	<2.1	<2.0	<2.4	<2.1	<2.5	<2.1	<2.1	<2.4	<2.2	<2.2	<2.8	<2.1	<2.2	<2.9	<350
Methylcyclohexane	NE	<1.4	<1.3	<1.2	<1.5	<1.3	<1.5	<1.3	<1.3	<1.5	<1.4	<1.4	<1.7	<1.3	<1.4	<1.8	<620
Methylene Chloride	740,000	<14	18 J	<12	42	<13	<15	<13	19 J	<14	63	51	31 J	63	27 J	120	<3,600
Styrene	870,000	<1.3	<1.2	<1.2	<1.4	<1.2	<1.4	<1.2	<1.2	<1.4	<1.3	<1.3	<1.6	<1.2	<1.3	<1.7	<490
Tetrachloroethene	170,000	<0.84	<0.77	<0.74	1.0 J	<0.76	<0.91	<0.77	<0.76	0.91 J	<0.83	<0.83	<1.0	<0.77	<0.81	<1.1	<910
Toluene	820,000	<0.89	<0.81	1.1 J	<0.96	<0.81	<0.96	<0.81	<0.80	<0.93	<0.87	2.9 J	<1.1	<0.81	<0.86	<1.1	<2,200
trans-1,2-Dichloroethene	1,900,000	<1.6	<1.5	<1.4	<1.8	<1.5	<1.8	<1.5	<1.5	<1.7	<1.6	<1.6	<2.0	<1.5	<1.6	<2.1	<580
trans-1,3-Dichloropropene	43,000	<4.3	<3.9	<3.7	<4.6	<3.9	<4.6	<3.9	<3.8	<4.5	<4.2	<4.2	<5.2	<3.9	<4.1	<5.5	<980
Trichloroethene	10,000	<0.73	<0.66	<0.64	<0.78	<0.66	<0.79	<0.66	<0.66	<0.76	0.86 J	<0.72	<0.88	<0.66	<0.70	<0.93	<1,300
Trichlorofluoromethane	1,200,000	<3.1	<2.8	<2.7	<3.3	<2.8	<3.3	<2.8	<2.8	<3.3	<3.0	<3.0	<3.7	<2.8	<3.0	<4.0	<1,300
Vinyl chloride	1,300	<2.0	<1.9	<1.8	<2.2	<1.8	<2.2	<1.9	<1.8	<2.1	<2.0	<2.0	<2.5	<1.9	<2.0	<2.6	<1,200
Xylenes, Total	260,000	<1.8	<1.7	9.6 J	<2.0	10	<2.0	<1.7	<1.6	<1.9	<1.8	<1.8	<2.2	10 J	<1.8	<2.3	3,800 J

NE - Not Established

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

**3 - ISTD response or retention time outside acceptable limits*

**+ - LCS and/or LCSD is outside acceptable liits, high biased*

F1 - MS and/or MSD recovery exceeds control limits

Table C-2 PAH Analytes	Ohio VAP - Residential Direct Contact Standard (ug/Kg)	B1 (ug/Kg)	B2 (ug/Kg)	B3 (ug/Kg)	B4 (ug/Kg)	B5 (ug/Kg)	B6 (ug/Kg)	B7 (ug/Kg)	B8 (ug/Kg)	B9 (ug/Kg)	B10 (ug/Kg)	B11 (ug/Kg)	B12 (ug/Kg)	B13 (ug/Kg)	B14 (ug/Kg)	SS1 (ug/Kg)	PR1 (ug/Kg)
Acenaphthene	7,200,000	<3.5	<3.2	<60	<3.7	69	<3.6	12 J	<3.1	<3.7	<3.3	42 J	<4.2	640	<3.2	210	16,000
Acenaphthylene	NE	<4.9	<4.5	<84	<5.2	97	<5.0	25	<4.4	18 J	24	230	<5.8	810	5.7 J	30 J	<2,300
Anthracene	36,000,000	<3.0	<2.7	<51	<3.1	300	<3.0	41	<2.6	20	28	1,600	<3.5	3,600	4.4 J	590	4,500 J
Benzo[a]anthracene	23,000	<4.2	<3.8	<72	<4.4	1,700	11 J	280	<3.7	150	180	2,500	<5.0	9,400	25	2,400	3,100 J
Benzo[a]pyrene	2,300	16 J	<10	<200	<12	1,900	20	250	<10	290	190	1,900	<14	**7,700***	26	**2,500***	<5,400
Benzo[b]fluoranthene	23,000	15 J	14 J	<140	<8.4	2,600	20	1,100	<7.1	400	260	2,500	<9.5	9,400	37	3,200	<3,800
Benzo[g,h,i]perylene	NE	<8.7	<7.9	<150	<9.2	2,100	14 J	300	<7.7	660	130	1,100	<10	2,700	11 J	1,000	<4,100
Benzo[k]fluoranthene	230,000	<8.5	<7.7	<150	<9.0	1,100	<8.6	180	<7.5	94	72	1,100	<10	4,400	12 J	1,400	<4,000
Chrysene	2,300,000	9.8 J	<1.7	<31	<1.9	1,700	10 J	1,100	<1.6	210	180	2,400	<2.2	8,700	25	2,400	4,900 J
Dibenz(a,h)anthracene	2,300	<8.5	<7.7	<150	<9.0	460	<8.6	92	<7.5	240	39	320	<10	990	<7.7	300	<4,000
Fluoranthene	4,800,000	16 J	6.3 J	<94	<5.8	2,900	11 J	520	<4.8	190	260	5,600	<6.5	17,000	44	4,800	5,500 J
Fluorene	4,800,000	<3.4	<3.1	<58	<3.6	68	<3.4	11 J	<3.0	<3.5	5.7 J	300	<4.0	940	<3.0	160	19,000
Indeno[1,2,3-cd]pyrene	23,000	<9.1	<8.2	<150	<9.5	1,700	<9.1	230	<8.0	350	110	1,100	<11	2,800	10 J	990	<4,300
Naphthalene	96,000	5.2 J	<2.7	<51	6.0 J	140	<3.0	140	5.8 J	95	26	110	<3.5	610	43	140	71,000
Phenanthrene	NE	11 J	9.2 J	<47	5.0 J	1,000	15 J	260	<2.4	130	120	3,700	<3.2	14,000	33	2,300	38,000
Pyrene	3,600,000	13 J	4.6 J	<45	4.5 J	2,700	11 J	370	<2.3	170	270	4,200	5.5 J	17,000	39	4,600	9,800

NE - Not Established

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

Bold *- Concentration exceeds Ohio VAP Residentail Direct Contact Standard*

** - Does not exceed the Ohio VAP Commercial or Industrial Direct Contact Standard of 62,000 ug/Kg*

Table C-3 PCB Analytes	Ohio VAP - Residential Direct Contact Standard (ug/Kg)	B1 (ug/Kg)	B2 (ug/Kg)	B3 (ug/Kg)	B4 (ug/Kg)	B5 (ug/Kg)	B6 (ug/Kg)	B7 (ug/Kg)	B8 (ug/Kg)	B9 (ug/Kg)	B10 (ug/Kg)	B11 (ug/Kg)	B12 (ug/Kg)	B13 (ug/Kg)	B14 (ug/Kg)	SS1 (ug/Kg)	PR1 (ug/Kg)
Aroclor-1016	8,200	<28	<25	<23	<28	<25	<26	<23	<23	<30	<26	<27	<32	<24	<25	<37	<150
Aroclor-1221	3,900	<31	<27	<25	<31	<27	<29	<26	<25	<33	<28	<29	<35	<26	<28	<40	<170
Aroclor-1232	3,400	<30	<26	<24	<29	<26	<28	<24	<24	<32	<27	<28	<33	<25	<27	<38	<160
Aroclor-1242	4,600	<24	<22	<20	<24	<21	<23	<20	<20	<26	<22	<23	<28	71	<22	<32	<130
Aroclor-1248	4,500	<31	<27	<25	<31	<27	<29	<26	<25	<33	<28	<29	<35	<26	<28	<40	<170
Aroclor-1254	2,300	<30	<26	<24	<29	<26	<28	<24	<24	<32	<27	<28	<33	<25	<27	<38	<160
Aroclor-1260	4,800	<28	<25	37 J	<28	<25	<26	<23	<23	<30	<26	<27	<32	510	<25	<37	<150
Aroclor-1262	NE	<40	<35	<32	<40	<35	<37	<33	<33	<43	<37	<38	<45	<34	<36	<52	<220
Aroclor-1268	NE	<30	<26	<24	<29	<26	<28	<24	<24	<32	<27	<28	<33	<25	<27	<38	<160

NE - Not Established

Table C-4 RCRA Metals Analytes	Ohio VAP - Residential Direct Contact Standard (mg/Kg)	B1 (mg/Kg)	B2 (mg/Kg)	B3 (mg/Kg)	B4 (mg/Kg)	B5 (mg/Kg)	B6 (mg/Kg)	B7 (mg/Kg)	B8 (mg/Kg)	B9 (mg/Kg)	B10 (mg/Kg)	B11 (mg/Kg)	B12 (mg/Kg)	B13 (mg/Kg)	B14 (mg/Kg)	SS1 (mg/Kg)	PR1 (mg/Kg)
Barium	30,000	50	30	13 J	53	140	48	99	18	1,200	160	140	95	290	51	84	4.7 J
Cadmium	140	0.093 J	0.83	0.14 J	2.3	0.41 J	0.21 J	1.1	0.29 J	0.86	1.6	0.29 J	0.23 J	0.50 J	0.30 J	0.78	0.055 J
Chromium	NE	10	7.2	6.2	9.7	960	6.9	14	5.4	22	16	7.9	7.7	47	15	58	0.46 J
Silver	780	<0.075	<0.078	0.11 J	<0.085	0.71 J	<0.090	0.18 J	<0.069	0.18 J	0.12 J	0.16 J	<0.10	0.087 J	<0.075	<0.11	<0.085
Arsenic	14	13	**22***	9.2	**17***	9.3	**24***	**22***	13	13	**16***	**16***	4.7	8.8	**20***	13	<0.33
Lead	400	12	9.3	16	15	62	9	270	9.8	**1600****	**2700****	29	7.4	38	13	150	1.7
Selenium	780	<0.43	<0.90	<0.48	<0.98	<2.5	<0.52	<0.72	<0.40	<0.53	<0.38	<0.52	<0.58	<0.47	<0.43	0.72 J	<0.49
Mercury	3.1	0.042 J	<0.023	0.025 J	0.044 J	0.082 J	<0.024	0.2	<0.021	0.067 J	1.2	0.11	<0.027	0.13 B	0.031 J B	0.095 J B	<0.031

NE - Not Established

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

Bold *- Concentration exceeds Ohio VAP Residentail Direct Contact Standard*

** - Does not exceed the Ohio VAP Commercial Direct Contact Standard of 46 mg/Kg*

*** - Exceeds all Ohio VAP Direct Contact Standards*

VOC Analytes	Ground Water 1 (ug/L)
1,1,1-Trichloroethane	<0.48
1,1,2,2-Tetrachloroethane	<0.60
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.41
1,1,2-Trichloroethane	<0.48
1,1-Dichloroethane	<0.47
1,1-Dichloroethene	<0.49
1,2,4-Trichlorobenzene	<0.77
1,2-Dibromo-3-Chloropropane	<0.91
Ethylene Dibromide	<0.41
1,2-Dichlorobenzene	<0.48
1,2-Dichloroethane	<0.21
1,2-Dichloropropane	<0.47
1,3-Dichlorobenzene	<0.45
1,4-Dichlorobenzene	<0.41
2-Butanone (MEK)	<1.2
2-Hexanone	<1.1
4-Methyl-2-pentanone (MIBK)	<0.99
Acetone	24
Benzene	<0.42
Dichlorobromomethane	<0.17
Bromoform	<0.76
Bromomethane	<0.42
Carbon disulfide	<0.59
Carbon tetrachloride	<0.26
Chlorobenzene	<0.38
Chloroethane	<0.83
Chloroform	<0.47
Chloromethane	<0.63
cis-1,2-Dichloroethene	<0.46
cis-1,3-Dichloropropene	<0.61
Cyclohexane	<0.48
Chlorodibromomethane	<0.39
Dichlorodifluoromethane	<0.35
Ethylbenzene	0.58 J
Isopropylbenzene	<0.49
Methyl acetate	<1.7
Methyl tert-butyl ether	<0.47
Methylcyclohexane	<0.33
Methylene Chloride	<2.6
Styrene	<0.45
Tetrachloroethene	<0.44
Toluene	0.62 J
trans-1,2-Dichloroethene	<0.51
trans-1,3-Dichloropropene	<0.67
Trichloroethene	7.9
Trichlorofluoromethane	<0.45
Vinyl chloride	<0.45
Xylenes, Total	3.6

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

Appendix D

Laboratory Analytical Report and

Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-150940-1
Client Project/Site: Middle Branch Phase II

For:
EnviroScience Inc
5070 Stow Rd.
Stow, Ohio 44224

Attn: Kyle Lawrence

Authorized for release by:
6/22/2021 5:41:18 PM

Leslie Howell, Project Manager I
(330)966-9266
Leslie.Howell@Eurofinset.com

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

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

Table of Contents

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

GC Semi VOA

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-150940-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-150940-1

Comments
No additional comments.

Receipt
The samples were received on 6/8/2021 3:25 PM. 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 was 3.5º C.

GC/MS VOA
Methods 8260C, 8260D: The continuing calibration verification (CCV) analyzed in batch 240-489935 was outside the method criteria for the following analytes: 1,2-Dichloroethane; Bromomethane; Chloroethane and Chloromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes are considered estimated.

Method 8260D: Internal standard (ISTD) response for the following samples were outside control limits: B-3_17.5-20 and B-9_0-2.5. The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260D: Surrogate recovery for the following sample was outside control limits: B-3_17.5-20. Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Methods 8260C, 8260D: The continuing calibration verification (CCV) analyzed in batch 240-490034 was outside the method criteria for the following analyte: Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Methods 8260C, 8260D: The laboratory control sample (LCS) for preparation batch 240-490118 and analytical batch 240-490034 recovered outside control limits for the following analyte: Chloroethane. 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 pH of the sample B-1_GW 1 was greater than 2. The sample was analyzed within the 7 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably, Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if sample is not preserved to a pH of 2.

Method 8260D: The laboratory control sample (LCS) for preparation batch 240-490278 and analytical batch 240-490151 recovered outside control limits for the following analyte: Chloroethane. These analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-490151 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: B-4_10-12.5, B-10-12.5-15 DUP, 240-150940-B-4-E MS and 240-150940-B-4-F 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: The following sample was diluted due to the nature of the sample matrix: B-3_17.5-20. 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 Semi VOA
Method 8082A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: B-3_17.5-20, B-4_10-12.5, B-5_0-2.5, B-7_12.5-15, B-8_12.5-15, B-9_0-2.5, B-10_12.5-15, B-10-12.5-15 DUP, B-11_2.5-5 and B-12_10-12.5.

Job ID: 240-150940-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

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

Metals
Method 6010D: The following samples were diluted due to the nature of the sample matrix: B-2_12.5-15, B-4_10-12.5, B-5_0-2.5 and B-7_12.5-15. 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.

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

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

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

Method Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010D	Metals (ICP)	SW846	TAL CAN
7471B	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3050B	Preparation, Metals	SW846	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN
7471B	Preparation, Mercury	SW846	TAL CAN

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:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-150940-1	B-1_4-6	Solid	06/07/21 10:35	06/08/21 15:25	
240-150940-2	B-2_12.5-15	Solid	06/07/21 11:25	06/08/21 15:25	
240-150940-3	B-3_17.5-20	Solid	06/07/21 12:10	06/08/21 15:25	
240-150940-4	B-4_10-12.5	Solid	06/07/21 12:45	06/08/21 15:25	
240-150940-5	B-5_0-2.5	Solid	06/07/21 13:30	06/08/21 15:25	
240-150940-6	B-6_10-12.5	Solid	06/07/21 14:30	06/08/21 15:25	
240-150940-7	B-7_12.5-15	Solid	06/07/21 14:55	06/08/21 15:25	
240-150940-8	B-8_12.5-15	Solid	06/07/21 15:10	06/08/21 15:25	
240-150940-9	B-9_0-2.5	Solid	06/07/21 15:40	06/08/21 15:25	
240-150940-10	B-10_12.5-15	Solid	06/08/21 10:00	06/08/21 15:25	
240-150940-11	B-10-12.5-15 DUP	Solid	06/08/21 10:00	06/08/21 15:25	
240-150940-12	B-11_2.5-5	Solid	06/08/21 11:05	06/08/21 15:25	
240-150940-13	B-12_10-12.5	Solid	06/08/21 11:45	06/08/21 15:25	
240-150940-14	B-1_GW 1	Water	06/07/21 16:00	06/08/21 15:25	
240-150940-15	TB-0628	Water	06/08/21 00:00	06/08/21 15:25	

Detection Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-1_4-6 — Lab Sample ID: 240-150940-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	16	J	18	12	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	15	J	18	8.0	ug/Kg	1	☼	8270E	Total/NA
Chrysene	9.8	J	18	1.8	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	16	J	18	5.5	ug/Kg	1	☼	8270E	Total/NA
Naphthalene	5.2	J	18	3.0	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	11	J	18	2.7	ug/Kg	1	☼	8270E	Total/NA
Pyrene	13	J	18	2.6	ug/Kg	1	☼	8270E	Total/NA
Barium	50		18	0.33	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.093	J	0.46	0.044	mg/Kg	1	☼	6010D	Total/NA
Chromium	10		0.92	0.32	mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		1.4	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	12		0.92	0.26	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.042	J	0.11	0.019	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-2_12.5-15 — Lab Sample ID: 240-150940-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	18	J	26	13	ug/Kg	1	☼	8260D	Total/NA
Benzo[b]fluoranthene	14	J	17	7.2	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	6.3	J	17	5.0	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	9.2	J	17	2.5	ug/Kg	1	☼	8270E	Total/NA
Pyrene	4.6	J	17	2.4	ug/Kg	1	☼	8270E	Total/NA
Barium	30		19	0.35	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.83		0.48	0.046	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.2		1.9	0.66	mg/Kg	2	☼	6010D	Total/NA
Arsenic	22		2.9	0.61	mg/Kg	2	☼	6010D	Total/NA
Lead	9.3		0.96	0.27	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: B-3_17.5-20 — Lab Sample ID: 240-150940-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9.1	J	20	3.6	ug/Kg	1	☼	8260D	Total/NA
Acetone	54		25	21	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	6.4		5.0	1.2	ug/Kg	1	☼	8260D	Total/NA
Isopropylbenzene	3.1	J	5.0	1.9	ug/Kg	1	☼	8260D	Total/NA
Toluene	1.1	J	5.0	0.78	ug/Kg	1	☼	8260D	Total/NA
Xylenes, Total	9.6	J	10	1.6	ug/Kg	1	☼	8260D	Total/NA
Aroclor-1260	37	J	52	23	ug/Kg	1	☼	8082A	Total/NA
Barium	13	J	20	0.37	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.14	J	0.51	0.049	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.2		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Silver	0.11	J	1.0	0.082	mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.2		1.5	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	16		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025	J	0.11	0.019	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-4_10-12.5 — Lab Sample ID: 240-150940-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	42		31	15	ug/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	1.0	J	6.2	0.90	ug/Kg	1	☼	8260D	Total/NA
Naphthalene	6.0	J	19	3.1	ug/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-4_10-12.5 (Continued) — Lab Sample ID: 240-150940-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	5.0	J	19	2.9	ug/Kg	1	☼	8270E	Total/NA
Pyrene	4.5	J	19	2.8	ug/Kg	1	☼	8270E	Total/NA
Barium	53		21	0.38	mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.3		0.52	0.050	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.7		2.1	0.72	mg/Kg	2	☼	6010D	Total/NA
Arsenic	17		3.1	0.66	mg/Kg	2	☼	6010D	Total/NA
Lead	15		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.044	J	0.13	0.023	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-5_0-2.5 — Lab Sample ID: 240-150940-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	37		26	22	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	1.2	J	5.2	1.2	ug/Kg	1	☼	8260D	Total/NA
Ethylbenzene	1.3	J	5.2	1.1	ug/Kg	1	☼	8260D	Total/NA
Xylenes, Total	10		10	1.7	ug/Kg	1	☼	8260D	Total/NA
Acenaphthene	69		42	7.9	ug/Kg	2.5	☼	8270E	Total/NA
Acenaphthylene	97		42	11	ug/Kg	2.5	☼	8270E	Total/NA
Anthracene	300		42	6.7	ug/Kg	2.5	☼	8270E	Total/NA
Benzo[a]anthracene	1700		42	9.5	ug/Kg	2.5	☼	8270E	Total/NA
Benzo[a]pyrene	1900		42	26	ug/Kg	2.5	☼	8270E	Total/NA
Benzo[b]fluoranthene	2600		42	18	ug/Kg	2.5	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2100		42	20	ug/Kg	2.5	☼	8270E	Total/NA
Benzo[k]fluoranthene	1100		42	19	ug/Kg	2.5	☼	8270E	Total/NA
Chrysene	1700		42	4.1	ug/Kg	2.5	☼	8270E	Total/NA
Dibenz(a,h)anthracene	460		42	19	ug/Kg	2.5	☼	8270E	Total/NA
Fluoranthene	2900		42	12	ug/Kg	2.5	☼	8270E	Total/NA
Fluorene	68		42	7.6	ug/Kg	2.5	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1700		42	20	ug/Kg	2.5	☼	8270E	Total/NA
Naphthalene	140		42	6.7	ug/Kg	2.5	☼	8270E	Total/NA
Phenanthrene	1000		42	6.2	ug/Kg	2.5	☼	8270E	Total/NA
Pyrene	2700		42	5.9	ug/Kg	2.5	☼	8270E	Total/NA
Barium	140		21	0.38	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.41	J	2.6	0.25	mg/Kg	5	☼	6010D	Total/NA
Chromium	960		5.3	1.8	mg/Kg	5	☼	6010D	Total/NA
Silver	0.71	J	1.1	0.085	mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.3		7.9	1.7	mg/Kg	5	☼	6010D	Total/NA
Lead	62		5.3	1.5	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.082	J	0.13	0.023	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-6_10-12.5 — Lab Sample ID: 240-150940-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	11	J	19	4.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	20		19	12	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	20		19	8.1	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	14	J	19	8.8	ug/Kg	1	☼	8270E	Total/NA
Chrysene	10	J	19	1.9	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	11	J	19	5.5	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	15	J	19	2.8	ug/Kg	1	☼	8270E	Total/NA
Pyrene	11	J	19	2.7	ug/Kg	1	☼	8270E	Total/NA
Barium	48		22	0.40	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-6_10-12.5 (Continued) — Lab Sample ID: 240-150940-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.21	J	0.56	0.053	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.9		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Arsenic	24		1.7	0.35	mg/Kg	1	☼	6010D	Total/NA
Lead	9.0		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: B-7_12.5-15 — Lab Sample ID: 240-150940-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	12	J	16	3.1	ug/Kg	1	☼	8270E	Total/NA
Acenaphthylene	25		16	4.3	ug/Kg	1	☼	8270E	Total/NA
Anthracene	41		16	2.6	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	280		16	3.6	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	250		16	10	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	1100		16	7.0	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	300		16	7.6	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	180		16	7.4	ug/Kg	1	☼	8270E	Total/NA
Chrysene	1100		16	1.6	ug/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	92		16	7.4	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	520		16	4.8	ug/Kg	1	☼	8270E	Total/NA
Fluorene	11	J	16	2.9	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	230		16	7.9	ug/Kg	1	☼	8270E	Total/NA
Naphthalene	140		16	2.6	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	260		16	2.4	ug/Kg	1	☼	8270E	Total/NA
Pyrene	370		16	2.3	ug/Kg	1	☼	8270E	Total/NA
Barium	99		15	0.28	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.1		0.77	0.074	mg/Kg	2	☼	6010D	Total/NA
Chromium	14		1.5	0.53	mg/Kg	2	☼	6010D	Total/NA
Silver	0.18	J	0.77	0.062	mg/Kg	1	☼	6010D	Total/NA
Arsenic	22		2.3	0.48	mg/Kg	2	☼	6010D	Total/NA
Lead	270		1.5	0.43	mg/Kg	2	☼	6010D	Total/NA
Mercury	0.20		0.11	0.019	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-8_12.5-15 — Lab Sample ID: 240-150940-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	6.5	J	21	3.7	ug/Kg	1	☼	8260D	Total/NA
Acetone	46		26	22	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	2.2	J	5.2	1.2	ug/Kg	1	☼	8260D	Total/NA
Methylene Chloride	19	J	26	12	ug/Kg	1	☼	8260D	Total/NA
Naphthalene	5.8	J	16	2.6	ug/Kg	1	☼	8270E	Total/NA
Barium	18		17	0.31	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.29	J	0.43	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.4		0.85	0.29	mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		1.3	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	9.8		0.85	0.24	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: B-9_0-2.5 — Lab Sample ID: 240-150940-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	4.8	J	6.0	1.4	ug/Kg	1	☼	8260D	Total/NA
Tetrachloroethene	0.91	J	6.0	0.88	ug/Kg	1	☼	8260D	Total/NA
Acenaphthylene	18	J	19	5.2	ug/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-9_0-2.5 (Continued) — Lab Sample ID: 240-150940-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	20		19	3.1	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	150		19	4.4	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	290		19	12	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	400		19	8.4	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	660		19	9.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	94		19	9.0	ug/Kg	1	☼	8270E	Total/NA
Chrysene	210		19	1.9	ug/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	240		19	9.0	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	190		19	5.8	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	350		19	9.5	ug/Kg	1	☼	8270E	Total/NA
Naphthalene	95		19	3.1	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	130		19	2.9	ug/Kg	1	☼	8270E	Total/NA
Pyrene	170		19	2.8	ug/Kg	1	☼	8270E	Total/NA
Barium	1200		22	0.41	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.86		0.56	0.054	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Silver	0.18	J	1.1	0.091	mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		1.7	0.35	mg/Kg	1	☼	6010D	Total/NA
Lead	1600		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.067	J	0.12	0.021	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-10_12.5-15 — Lab Sample ID: 240-150940-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	63		28	14	ug/Kg	1	☼	8260D	Total/NA
Trichloroethene	0.86	J	5.7	0.72	ug/Kg	1	☼	8260D	Total/NA
Acenaphthylene	24		17	4.6	ug/Kg	1	☼	8270E	Total/NA
Anthracene	28		17	2.8	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	180		17	3.9	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	190		17	11	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	260		17	7.5	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	130		17	8.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	72		17	8.0	ug/Kg	1	☼	8270E	Total/NA
Chrysene	180		17	1.7	ug/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	39		17	8.0	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	260		17	5.1	ug/Kg	1	☼	8270E	Total/NA
Fluorene	5.7	J	17	3.2	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	110		17	8.5	ug/Kg	1	☼	8270E	Total/NA
Naphthalene	26		17	2.8	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	120		17	2.6	ug/Kg	1	☼	8270E	Total/NA
Pyrene	270		17	2.5	ug/Kg	1	☼	8270E	Total/NA
Barium	160		16	0.29	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.6		0.81	0.078	mg/Kg	2	☼	6010D	Total/NA
Chromium	16		0.81	0.28	mg/Kg	1	☼	6010D	Total/NA
Silver	0.12	J	0.81	0.066	mg/Kg	1	☼	6010D	Total/NA
Arsenic	16		1.2	0.26	mg/Kg	1	☼	6010D	Total/NA
Lead	2700		1.6	0.46	mg/Kg	2	☼	6010D	Total/NA
Mercury	1.2		0.13	0.023	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-10-12.5-15 DUP — Lab Sample ID: 240-150940-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	190		62	30	ug/Kg	1	☼	8260D	Total/NA
Trichloroethene	1.1	J	6.4	0.81	ug/Kg	1	☼	8260D	Total/NA
Acenaphthylene	13	J	19	5.2	ug/Kg	1	☼	8270E	Total/NA
Anthracene	10	J	19	3.1	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	68		19	4.4	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	80		19	12	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	110		19	8.4	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	69		19	9.1	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	36		19	8.9	ug/Kg	1	☼	8270E	Total/NA
Chrysene	65		19	1.9	ug/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	19		19	8.9	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	110		19	5.7	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	62		19	9.5	ug/Kg	1	☼	8270E	Total/NA
Naphthalene	39		19	3.1	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	67		19	2.9	ug/Kg	1	☼	8270E	Total/NA
Pyrene	95		19	2.7	ug/Kg	1	☼	8270E	Total/NA
Barium	160		24	0.43	mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.2		0.60	0.058	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Silver	0.17	J	1.2	0.097	mg/Kg	1	☼	6010D	Total/NA
Arsenic	16		1.8	0.38	mg/Kg	1	☼	6010D	Total/NA
Lead	960		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.50		0.13	0.024	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-11_2.5-5 — Lab Sample ID: 240-150940-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1	J	5.7	0.79	ug/Kg	1	☼	8260D	Total/NA
Methylene Chloride	51		28	14	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.9	J	5.7	0.88	ug/Kg	1	☼	8260D	Total/NA
Acenaphthene	42	J	69	13	ug/Kg	4	☼	8270E	Total/NA
Acenaphthylene	230		69	18	ug/Kg	4	☼	8270E	Total/NA
Anthracene	1600		69	11	ug/Kg	4	☼	8270E	Total/NA
Benzo[a]anthracene	2500		69	16	ug/Kg	4	☼	8270E	Total/NA
Benzo[a]pyrene	1900		69	43	ug/Kg	4	☼	8270E	Total/NA
Benzo[b]fluoranthene	2500		69	30	ug/Kg	4	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1100		69	33	ug/Kg	4	☼	8270E	Total/NA
Benzo[k]fluoranthene	1100		69	32	ug/Kg	4	☼	8270E	Total/NA
Chrysene	2400		69	6.9	ug/Kg	4	☼	8270E	Total/NA
Dibenz(a,h)anthracene	320		69	32	ug/Kg	4	☼	8270E	Total/NA
Fluoranthene	5600		69	21	ug/Kg	4	☼	8270E	Total/NA
Fluorene	300		69	13	ug/Kg	4	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1100		69	34	ug/Kg	4	☼	8270E	Total/NA
Naphthalene	110		69	11	ug/Kg	4	☼	8270E	Total/NA
Phenanthrene	3700		69	10	ug/Kg	4	☼	8270E	Total/NA
Pyrene	4200		69	9.9	ug/Kg	4	☼	8270E	Total/NA
Barium	140		22	0.40	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.29	J	0.55	0.053	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.9		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Silver	0.16	J	1.1	0.090	mg/Kg	1	☼	6010D	Total/NA
Arsenic	16		1.7	0.35	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-11_2.5-5 (Continued) — Lab Sample ID: 240-150940-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	29		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.11		0.11	0.020	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-12_10-12.5 — Lab Sample ID: 240-150940-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	48		28	4.9	ug/Kg	1	☼	8260D	Total/NA
Acetone	240		35	29	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	1.8	J	7.0	1.6	ug/Kg	1	☼	8260D	Total/NA
Methylene Chloride	31	J	35	17	ug/Kg	1	☼	8260D	Total/NA
Pyrene	5.5	J	22	3.1	ug/Kg	1	☼	8270E	Total/NA
Barium	95		25	0.45	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.23	J	0.62	0.059	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.7		1.2	0.42	mg/Kg	1	☼	6010D	Total/NA
Arsenic	4.7		1.9	0.39	mg/Kg	1	☼	6010D	Total/NA
Lead	7.4		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: B-1_GW 1 — Lab Sample ID: 240-150940-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24		10	5.4	ug/L	1		8260D	Total/NA
Ethylbenzene	0.58	J	1.0	0.42	ug/L	1		8260D	Total/NA
Toluene	0.62	J	1.0	0.44	ug/L	1		8260D	Total/NA
Trichloroethene	7.9		1.0	0.44	ug/L	1		8260D	Total/NA
Xylenes, Total	3.6		2.0	0.42	ug/L	1		8260D	Total/NA

Client Sample ID: TB-0628 — Lab Sample ID: 240-150940-15

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-1_4-6

Date Collected: 06/07/21 10:35
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-1

Matrix: Solid
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		5.8	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,1,2,2-Tetrachloroethane	<1.7		5.8	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.5		5.8	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,1,2-Trichloroethane	<1.3		5.8	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,1-Dichloroethane	<0.80		5.8	0.80	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,1-Dichloroethene	<2.1		5.8	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,2,4-Trichlorobenzene	<2.9		5.8	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,2-Dibromo-3-Chloropropane	<4.2		12	4.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Ethylene Dibromide	<0.89		5.8	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,2-Dichlorobenzene	<1.3		5.8	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,2-Dichloroethane	<0.89		5.8	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,2-Dichloropropane	<0.98		5.8	0.98	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,3-Dichlorobenzene	<0.94		5.8	0.94	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
1,4-Dichlorobenzene	<1.0		5.8	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
2-Butanone (MEK)	<4.1		23	4.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
2-Hexanone	<4.7		23	4.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
4-Methyl-2-pentanone (MIBK)	<4.3		23	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Acetone	<24		29	24	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Benzene	<0.81		5.8	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Dichlorobromomethane	<1.7		5.8	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Bromoform	<2.8		5.8	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Bromomethane	<4.8		5.8	4.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Carbon disulfide	<1.3		5.8	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Carbon tetrachloride	<3.8		5.8	3.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Chlorobenzene	<1.1		5.8	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Chloroethane	<3.2		5.8	3.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Chloroform	<0.91		5.8	0.91	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Chloromethane	<2.6		5.8	2.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
cis-1,2-Dichloroethene	<1.7		5.8	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
cis-1,3-Dichloropropene	<3.3		5.8	3.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Cyclohexane	<1.6		12	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Chlorodibromomethane	<3.2		5.8	3.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Dichlorodifluoromethane	<1.1		5.8	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Ethylbenzene	<1.2		5.8	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Isopropylbenzene	<2.2		5.8	2.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Methyl acetate	<3.9		29	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Methyl tert-butyl ether	<2.3		5.8	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Methylcyclohexane	<1.4		12	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Methylene Chloride	<14		29	14	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Styrene	<1.3		5.8	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Tetrachloroethene	<0.84		5.8	0.84	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Toluene	<0.89		5.8	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
trans-1,2-Dichloroethene	<1.6		5.8	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
trans-1,3-Dichloropropene	<4.3		5.8	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Trichloroethene	<0.73		5.8	0.73	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Trichlorofluoromethane	<3.1		5.8	3.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Vinyl chloride	<2.0		5.8	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1
Xylenes, Total	<1.8		12	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:08	1

Client Sample ID: B-1_4-6

Date Collected: 06/07/21 10:35
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-1

Matrix: Solid
Percent Solids: 81.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*64 - 124*	*06/10/21 09:51*	*06/10/21 14:08*	*1*
Dibromofluoromethane (Surr)	*84*		*56 - 122*	*06/10/21 09:51*	*06/10/21 14:08*	*1*
4-Bromofluorobenzene (Surr)	*110*		*51 - 127*	*06/10/21 09:51*	*06/10/21 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*64*		*59 - 120*	*06/10/21 09:51*	*06/10/21 14:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.5		18	3.5	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Acenaphthylene	<4.9		18	4.9	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Anthracene	<3.0		18	3.0	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Benzo[a]anthracene	<4.2		18	4.2	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Benzo[a]pyrene	**16**	**J**	18	12	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Benzo[b]fluoranthene	**15**	**J**	18	8.0	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Benzo[g,h,i]perylene	<8.7		18	8.7	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Benzo[k]fluoranthene	<8.5		18	8.5	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Chrysene	**9.8**	**J**	18	1.8	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Dibenz(a,h)anthracene	<8.5		18	8.5	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Fluoranthene	**16**	**J**	18	5.5	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Fluorene	<3.4		18	3.4	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Indeno[1,2,3-cd]pyrene	<9.1		18	9.1	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Naphthalene	**5.2**	**J**	18	3.0	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Phenanthrene	**11**	**J**	18	2.7	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1
Pyrene	**13**	**J**	18	2.6	ug/Kg	☼	06/10/21 08:56	06/14/21 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*98*		*39 - 120*	*06/10/21 08:56*	*06/14/21 15:44*	*1*
Phenol-d5 (Surr)	*72*		*28 - 120*	*06/10/21 08:56*	*06/14/21 15:44*	*1*
Nitrobenzene-d5 (Surr)	*58*		*28 - 120*	*06/10/21 08:56*	*06/14/21 15:44*	*1*
2-Fluorophenol (Surr)	*68*		*26 - 120*	*06/10/21 08:56*	*06/14/21 15:44*	*1*
2-Fluorobiphenyl (Surr)	*72*		*35 - 120*	*06/10/21 08:56*	*06/14/21 15:44*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 120*	*06/10/21 08:56*	*06/14/21 15:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<28		64	28	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1221	<31		64	31	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1232	<30		64	30	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1242	<24		64	24	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1248	<31		64	31	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1254	<30		64	30	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1260	<28		64	28	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1262	<40		64	40	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1
Aroclor-1268	<30		64	30	ug/Kg	☼	06/10/21 09:20	06/12/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*14 - 128*	*06/10/21 09:20*	*06/12/21 15:16*	*1*
DCB Decachlorobiphenyl	*67*		*10 - 132*	*06/10/21 09:20*	*06/12/21 15:16*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**50**		18	0.33	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-1_4-6

Date Collected: 06/07/21 10:35
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-1

Matrix: Solid
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.093	J	0.46	0.044	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1
Chromium	10		0.92	0.32	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1
Silver	<0.075		0.92	0.075	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1
Arsenic	13		1.4	0.29	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1
Lead	12		0.92	0.26	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1
Selenium	<0.43		1.8	0.43	mg/Kg	☼	06/10/21 14:00	06/11/21 15:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042	J	0.11	0.019	mg/Kg	☼	06/10/21 14:00	06/11/21 07:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.6		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	18.4		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-2_12.5-15

Date Collected: 06/07/21 11:25
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-2

Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.9		5.2	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,1,2,2-Tetrachloroethane	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.2	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,1,2-Trichloroethane	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,1-Dichloroethane	<0.73		5.2	0.73	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,1-Dichloroethene	<1.9		5.2	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,2,4-Trichlorobenzene	<2.6		5.2	2.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,2-Dibromo-3-Chloropropane	<3.8		10	3.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Ethylene Dibromide	<0.81		5.2	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,2-Dichlorobenzene	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,2-Dichloroethane	<0.81		5.2	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,2-Dichloropropane	<0.89		5.2	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,3-Dichlorobenzene	<0.86		5.2	0.86	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
1,4-Dichlorobenzene	<0.93		5.2	0.93	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
2-Butanone (MEK)	<3.7		21	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
2-Hexanone	<4.3		21	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
4-Methyl-2-pentanone (MIBK)	<3.9		21	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Acetone	<22		26	22	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Benzene	<0.73		5.2	0.73	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Dichlorobromomethane	<1.6		5.2	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Bromoform	<2.5		5.2	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Bromomethane	<4.4		5.2	4.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Carbon disulfide	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Carbon tetrachloride	<3.4		5.2	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Chlorobenzene	<0.96		5.2	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Chloroethane	<2.9		5.2	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Chloroform	<0.83		5.2	0.83	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Chloromethane	<2.4		5.2	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
cis-1,2-Dichloroethene	<1.6		5.2	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
cis-1,3-Dichloropropene	<3.0		5.2	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Cyclohexane	<1.4		10	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Chlorodibromomethane	<2.9		5.2	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Dichlorodifluoromethane	<0.99		5.2	0.99	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Ethylbenzene	<1.1		5.2	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Isopropylbenzene	<2.0		5.2	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Methyl acetate	<3.6		26	3.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Methyl tert-butyl ether	<2.1		5.2	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Methylcyclohexane	<1.3		10	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Methylene Chloride	**18**	**J**	26	13	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Styrene	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Tetrachloroethene	<0.77		5.2	0.77	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Toluene	<0.81		5.2	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
trans-1,2-Dichloroethene	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
trans-1,3-Dichloropropene	<3.9		5.2	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Trichloroethene	<0.66		5.2	0.66	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Trichlorofluoromethane	<2.8		5.2	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Vinyl chloride	<1.9		5.2	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1
Xylenes, Total	<1.7		10	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:32	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-2_12.5-15

Date Collected: 06/07/21 11:25
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-2

Matrix: Solid
Percent Solids: 88.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		64 - 124	06/10/21 09:51	06/10/21 14:32	1
Dibromofluoromethane (Surr)	84		56 - 122	06/10/21 09:51	06/10/21 14:32	1
4-Bromofluorobenzene (Surr)	95		51 - 127	06/10/21 09:51	06/10/21 14:32	1
1,2-Dichloroethane-d4 (Surr)	64		59 - 120	06/10/21 09:51	06/10/21 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.2		17	3.2	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Acenaphthylene	<4.5		17	4.5	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Anthracene	<2.7		17	2.7	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Benzo[a]anthracene	<3.8		17	3.8	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Benzo[a]pyrene	<10		17	10	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Benzo[b]fluoranthene	**14**	**J**	17	7.2	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Benzo[g,h,i]perylene	<7.9		17	7.9	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Benzo[k]fluoranthene	<7.7		17	7.7	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Chrysene	<1.7		17	1.7	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Dibenz(a,h)anthracene	<7.7		17	7.7	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Fluoranthene	**6.3**	**J**	17	5.0	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Fluorene	<3.1		17	3.1	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Indeno[1,2,3-cd]pyrene	<8.2		17	8.2	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Naphthalene	<2.7		17	2.7	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Phenanthrene	**9.2**	**J**	17	2.5	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1
Pyrene	**4.6**	**J**	17	2.4	ug/Kg	☼	06/10/21 08:56	06/14/21 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	104		39 - 120	06/10/21 08:56	06/14/21 17:17	1
Phenol-d5 (Surr)	74		28 - 120	06/10/21 08:56	06/14/21 17:17	1
Nitrobenzene-d5 (Surr)	76		28 - 120	06/10/21 08:56	06/14/21 17:17	1
2-Fluorophenol (Surr)	64		26 - 120	06/10/21 08:56	06/14/21 17:17	1
2-Fluorobiphenyl (Surr)	81		35 - 120	06/10/21 08:56	06/14/21 17:17	1
2,4,6-Tribromophenol (Surr)	57		10 - 120	06/10/21 08:56	06/14/21 17:17	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<25		57	25	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1221	<27		57	27	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1232	<26		57	26	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1242	<22		57	22	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1248	<27		57	27	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1254	<26		57	26	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1260	<25		57	25	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1262	<35		57	35	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1
Aroclor-1268	<26		57	26	ug/Kg	☼	06/10/21 09:20	06/12/21 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	06/10/21 09:20	06/12/21 15:31	1
DCB Decachlorobiphenyl	70		10 - 132	06/10/21 09:20	06/12/21 15:31	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**30**		19	0.35	mg/Kg	☼	06/10/21 14:00	06/11/21 15:48	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-2_12.5-15

Date Collected: 06/07/21 11:25
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-2

Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.83**		0.48	0.046	mg/Kg	☼	06/10/21 14:00	06/11/21 15:48	1
Chromium	**7.2**		1.9	0.66	mg/Kg	☼	06/10/21 14:00	06/14/21 20:02	2
Silver	<0.078		0.96	0.078	mg/Kg	☼	06/10/21 14:00	06/11/21 15:48	1
Arsenic	**22**		2.9	0.61	mg/Kg	☼	06/10/21 14:00	06/14/21 20:02	2
Lead	**9.3**		0.96	0.27	mg/Kg	☼	06/10/21 14:00	06/11/21 15:48	1
Selenium	<0.90		3.8	0.90	mg/Kg	☼	06/10/21 14:00	06/14/21 20:02	2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.023		0.13	0.023	mg/Kg	☼	06/10/21 14:00	06/11/21 07:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**88.9**		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	**11.1**		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-3_17.5-20

Date Collected: 06/07/21 12:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-3

Matrix: Solid
Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.8		5.0	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,1,2,2-Tetrachloroethane	<1.4	*3	5.0	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,1-Dichloroethane	<0.70		5.0	0.70	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,1-Dichloroethene	<1.8		5.0	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,2,4-Trichlorobenzene	<2.5	*3	5.0	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,2-Dibromo-3-Chloropropane	<3.6	*3	10	3.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Ethylene Dibromide	<0.78		5.0	0.78	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,2-Dichlorobenzene	<1.1	*3	5.0	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,2-Dichloroethane	<0.78		5.0	0.78	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,2-Dichloropropane	<0.86		5.0	0.86	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,3-Dichlorobenzene	<0.82	*3	5.0	0.82	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
1,4-Dichlorobenzene	<0.89	*3	5.0	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
2-Butanone (MEK)	**9.1**	**J**	20	3.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
2-Hexanone	<4.1		20	4.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Acetone	**54**		25	21	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Benzene	<0.70		5.0	0.70	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Dichlorobromomethane	<1.5		5.0	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Bromoform	<2.4		5.0	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Bromomethane	<4.2		5.0	4.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Carbon disulfide	**6.4**		5.0	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Chloroethane	<2.8		5.0	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Chloroform	<0.79		5.0	0.79	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Chloromethane	<2.3		5.0	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
cis-1,3-Dichloropropene	<2.9		5.0	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Cyclohexane	<1.4		10	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Dichlorodifluoromethane	<0.95		5.0	0.95	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Ethylbenzene	<1.1		5.0	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Isopropylbenzene	**3.1**	**J**	5.0	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Methyl acetate	<3.4		25	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Methylcyclohexane	<1.2		10	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Methylene Chloride	<12		25	12	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Styrene	<1.2		5.0	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Tetrachloroethene	<0.74		5.0	0.74	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Toluene	**1.1**	**J**	5.0	0.78	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
trans-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
trans-1,3-Dichloropropene	<3.7		5.0	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Trichloroethene	<0.64		5.0	0.64	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Trichlorofluoromethane	<2.7		5.0	2.7	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Vinyl chloride	<1.8		5.0	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1
Xylenes, Total	**9.6**	**J**	10	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 14:57	1

Client Sample ID: B-3_17.5-20

Date Collected: 06/07/21 12:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-3

Matrix: Solid
Percent Solids: 94.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		64 - 124	06/10/21 09:51	06/10/21 14:57	1
Dibromofluoromethane (Surr)	86		56 - 122	06/10/21 09:51	06/10/21 14:57	1
4-Bromofluorobenzene (Surr)	179	S1+ *3	51 - 127	06/10/21 09:51	06/10/21 14:57	1
1,2-Dichloroethane-d4 (Surr)	67		59 - 120	06/10/21 09:51	06/10/21 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<60		320	60	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Acenaphthylene	<84		320	84	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Anthracene	<51		320	51	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Benzo[a]anthracene	<72		320	72	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Benzo[a]pyrene	<200		320	200	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Benzo[b]fluoranthene	<140		320	140	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Benzo[g,h,i]perylene	<150		320	150	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Benzo[k]fluoranthene	<150		320	150	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Chrysene	<31		320	31	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Dibenz(a,h)anthracene	<150		320	150	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Fluoranthene	<94		320	94	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Fluorene	<58		320	58	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Indeno[1,2,3-cd]pyrene	<150		320	150	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Naphthalene	<51		320	51	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Phenanthrene	<47		320	47	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20
Pyrene	<45		320	45	ug/Kg	☼	06/10/21 08:56	06/15/21 19:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	131	S1+	39 - 120	06/10/21 08:56	06/15/21 19:17	20
Phenol-d5 (Surr)	99		28 - 120	06/10/21 08:56	06/15/21 19:17	20
Nitrobenzene-d5 (Surr)	102		28 - 120	06/10/21 08:56	06/15/21 19:17	20
2-Fluorophenol (Surr)	91		26 - 120	06/10/21 08:56	06/15/21 19:17	20
2-Fluorobiphenyl (Surr)	107		35 - 120	06/10/21 08:56	06/15/21 19:17	20
2,4,6-Tribromophenol (Surr)	88		10 - 120	06/10/21 08:56	06/15/21 19:17	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<23		52	23	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1221	<25		52	25	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1232	<24		52	24	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1242	<20		52	20	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1248	<25		52	25	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1254	<24		52	24	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1260	**37**	**J**	52	23	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1262	<32		52	32	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1
Aroclor-1268	<24		52	24	ug/Kg	☼	06/10/21 09:20	06/12/21 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		14 - 128	06/10/21 09:20	06/12/21 15:46	1
DCB Decachlorobiphenyl	41		10 - 132	06/10/21 09:20	06/12/21 15:46	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**13**	**J**	20	0.37	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-3_17.5-20

Date Collected: 06/07/21 12:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-3

Matrix: Solid
Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.14	J	0.51	0.049	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1
Chromium	6.2		1.0	0.35	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1
Silver	0.11	J	1.0	0.082	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1
Arsenic	9.2		1.5	0.32	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1
Lead	16		1.0	0.29	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1
Selenium	<0.48		2.0	0.48	mg/Kg	☼	06/10/21 14:00	06/11/21 15:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	J	0.11	0.019	mg/Kg	☼	06/10/21 14:00	06/11/21 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.0		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	6.0		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-4_10-12.5

Date Collected: 06/07/21 12:45
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-4

Matrix: Solid
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.2		6.2	2.2	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,1,2,2-Tetrachloroethane	<1.8	F2	6.2	1.8	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.6		6.2	1.6	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,1,2-Trichloroethane	<1.4		6.2	1.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,1-Dichloroethane	<0.86		6.2	0.86	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,1-Dichloroethene	<2.3		6.2	2.3	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,2,4-Trichlorobenzene	<3.1	F2	6.2	3.1	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,2-Dibromo-3-Chloropropane	<4.5	F2	12	4.5	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Ethylene Dibromide	<0.95		6.2	0.95	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,2-Dichlorobenzene	<1.4	F2	6.2	1.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,2-Dichloroethane	<0.95		6.2	0.95	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,2-Dichloropropane	<1.1		6.2	1.1	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,3-Dichlorobenzene	<1.0		6.2	1.0	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
1,4-Dichlorobenzene	<1.1	F2	6.2	1.1	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
2-Butanone (MEK)	<4.4		25	4.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
2-Hexanone	<5.1	F2	25	5.1	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
4-Methyl-2-pentanone (MIBK)	<4.6	F2	25	4.6	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Acetone	<26		31	26	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Benzene	<0.86		6.2	0.86	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Dichlorobromomethane	<1.9		6.2	1.9	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Bromoform	<3.0		6.2	3.0	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Bromomethane	<5.1		6.2	5.1	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Carbon disulfide	<1.4		6.2	1.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Carbon tetrachloride	<4.0		6.2	4.0	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Chlorobenzene	<1.1		6.2	1.1	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Chloroethane	<3.4	*+ F1	6.2	3.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Chloroform	<0.97		6.2	0.97	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Chloromethane	<2.8		6.2	2.8	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
cis-1,2-Dichloroethene	<1.8		6.2	1.8	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
cis-1,3-Dichloropropene	<3.6		6.2	3.6	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Cyclohexane	<1.7		12	1.7	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Chlorodibromomethane	<3.4		6.2	3.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Dichlorodifluoromethane	<1.2		6.2	1.2	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Ethylbenzene	<1.3		6.2	1.3	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Isopropylbenzene	<2.4		6.2	2.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Methyl acetate	<4.2		31	4.2	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Methyl tert-butyl ether	<2.4		6.2	2.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Methylcyclohexane	<1.5		12	1.5	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Methylene Chloride	**42**		31	15	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Styrene	<1.4		6.2	1.4	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Tetrachloroethene	**1.0**	**J**	6.2	0.90	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Toluene	<0.96		6.2	0.96	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
trans-1,2-Dichloroethene	<1.8		6.2	1.8	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
trans-1,3-Dichloropropene	<4.6		6.2	4.6	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Trichloroethene	<0.78		6.2	0.78	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Trichlorofluoromethane	<3.3		6.2	3.3	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Vinyl chloride	<2.2		6.2	2.2	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1
Xylenes, Total	<2.0		12	2.0	ug/Kg	☼	06/11/21 17:22	06/11/21 18:51	1

Client Sample ID: B-4_10-12.5

Date Collected: 06/07/21 12:45
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-4

Matrix: Solid
Percent Solids: 76.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		64 - 124	06/11/21 17:22	06/11/21 18:51	1
Dibromofluoromethane (Surr)	97		56 - 122	06/11/21 17:22	06/11/21 18:51	1
4-Bromofluorobenzene (Surr)	95		51 - 127	06/11/21 17:22	06/11/21 18:51	1
1,2-Dichloroethane-d4 (Surr)	88		59 - 120	06/11/21 17:22	06/11/21 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.7		19	3.7	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Acenaphthylene	<5.2		19	5.2	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Anthracene	<3.1		19	3.1	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Benzo[a]anthracene	<4.4		19	4.4	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Benzo[a]pyrene	<12		19	12	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Benzo[b]fluoranthene	<8.4		19	8.4	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Benzo[g,h,i]perylene	<9.2		19	9.2	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Benzo[k]fluoranthene	<9.0		19	9.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Chrysene	<1.9		19	1.9	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Dibenz(a,h)anthracene	<9.0		19	9.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Fluoranthene	<5.8		19	5.8	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Fluorene	<3.6		19	3.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Indeno[1,2,3-cd]pyrene	<9.5		19	9.5	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Naphthalene	**6.0**	**J**	19	3.1	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Phenanthrene	**5.0**	**J**	19	2.9	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1
Pyrene	**4.5**	**J**	19	2.8	ug/Kg	☼	06/10/21 08:56	06/14/21 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	99		39 - 120	06/10/21 08:56	06/14/21 16:07	1
Phenol-d5 (Surr)	79		28 - 120	06/10/21 08:56	06/14/21 16:07	1
Nitrobenzene-d5 (Surr)	64		28 - 120	06/10/21 08:56	06/14/21 16:07	1
2-Fluorophenol (Surr)	69		26 - 120	06/10/21 08:56	06/14/21 16:07	1
2-Fluorobiphenyl (Surr)	74		35 - 120	06/10/21 08:56	06/14/21 16:07	1
2,4,6-Tribromophenol (Surr)	85		10 - 120	06/10/21 08:56	06/14/21 16:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<28		64	28	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1221	<31		64	31	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1232	<29		64	29	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1242	<24		64	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1248	<31		64	31	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1254	<29		64	29	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1260	<28		64	28	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1262	<40		64	40	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1
Aroclor-1268	<29		64	29	ug/Kg	☼	06/10/21 09:20	06/12/21 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		14 - 128	06/10/21 09:20	06/12/21 16:01	1
DCB Decachlorobiphenyl	55		10 - 132	06/10/21 09:20	06/12/21 16:01	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**53**		21	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 15:57	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-4_10-12.5

Date Collected: 06/07/21 12:45
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-4

Matrix: Solid
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.3		0.52	0.050	mg/Kg	☼	06/10/21 14:00	06/11/21 15:57	1
Chromium	9.7		2.1	0.72	mg/Kg	☼	06/10/21 14:00	06/14/21 20:15	2
Silver	<0.085		1.0	0.085	mg/Kg	☼	06/10/21 14:00	06/11/21 15:57	1
Arsenic	17		3.1	0.66	mg/Kg	☼	06/10/21 14:00	06/14/21 20:15	2
Lead	15		1.0	0.30	mg/Kg	☼	06/10/21 14:00	06/11/21 15:57	1
Selenium	<0.98		4.2	0.98	mg/Kg	☼	06/10/21 14:00	06/14/21 20:15	2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044	J	0.13	0.023	mg/Kg	☼	06/10/21 14:00	06/11/21 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.4		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	23.6		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-5_0-2.5

Date Collected: 06/07/21 13:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-5

Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.8		5.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,1,2,2-Tetrachloroethane	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.2	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,1,2-Trichloroethane	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,1-Dichloroethane	<0.72		5.2	0.72	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,1-Dichloroethene	<1.9		5.2	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,2,4-Trichlorobenzene	<2.6		5.2	2.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,2-Dibromo-3-Chloropropane	<3.8		10	3.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Ethylene Dibromide	<0.80		5.2	0.80	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,2-Dichlorobenzene	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,2-Dichloroethane	<0.81		5.2	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,2-Dichloropropane	<0.89		5.2	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,3-Dichlorobenzene	<0.85		5.2	0.85	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
1,4-Dichlorobenzene	<0.92		5.2	0.92	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
2-Butanone (MEK)	<3.7		21	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
2-Hexanone	<4.3		21	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
4-Methyl-2-pentanone (MIBK)	<3.9		21	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Acetone	**37**		26	22	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Benzene	<0.73		5.2	0.73	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Dichlorobromomethane	<1.6		5.2	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Bromoform	<2.5		5.2	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Bromomethane	<4.3		5.2	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Carbon disulfide	**1.2**	**J**	5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Carbon tetrachloride	<3.4		5.2	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Chlorobenzene	<0.96		5.2	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Chloroethane	<2.9		5.2	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Chloroform	<0.82		5.2	0.82	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Chloromethane	<2.4		5.2	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
cis-1,2-Dichloroethene	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
cis-1,3-Dichloropropene	<3.0		5.2	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Cyclohexane	<1.4		10	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Chlorodibromomethane	<2.9		5.2	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Dichlorodifluoromethane	<0.99		5.2	0.99	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Ethylbenzene	**1.3**	**J**	5.2	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Isopropylbenzene	<2.0		5.2	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Methyl acetate	<3.6		26	3.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Methyl tert-butyl ether	<2.1		5.2	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Methylcyclohexane	<1.3		10	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Methylene Chloride	<13		26	13	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Styrene	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Tetrachloroethene	<0.76		5.2	0.76	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Toluene	<0.81		5.2	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
trans-1,2-Dichloroethene	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
trans-1,3-Dichloropropene	<3.9		5.2	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Trichloroethene	<0.66		5.2	0.66	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Trichlorofluoromethane	<2.8		5.2	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Vinyl chloride	<1.8		5.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1
Xylenes, Total	**10**		10	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 15:20	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-5_0-2.5

Date Collected: 06/07/21 13:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-5

Matrix: Solid
Percent Solids: 89.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		64 - 124	06/10/21 09:51	06/10/21 15:20	1
Dibromofluoromethane (Surr)	80		56 - 122	06/10/21 09:51	06/10/21 15:20	1
4-Bromofluorobenzene (Surr)	110		51 - 127	06/10/21 09:51	06/10/21 15:20	1
1,2-Dichloroethane-d4 (Surr)	65		59 - 120	06/10/21 09:51	06/10/21 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**69**		42	7.9	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Acenaphthylene	**97**		42	11	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Anthracene	**300**		42	6.7	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Benzo[a]anthracene	**1700**		42	9.5	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Benzo[a]pyrene	**1900**		42	26	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Benzo[b]fluoranthene	**2600**		42	18	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Benzo[g,h,i]perylene	**2100**		42	20	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Benzo[k]fluoranthene	**1100**		42	19	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Chrysene	**1700**		42	4.1	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Dibenz(a,h)anthracene	**460**		42	19	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Fluoranthene	**2900**		42	12	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Fluorene	**68**		42	7.6	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Indeno[1,2,3-cd]pyrene	**1700**		42	20	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Naphthalene	**140**		42	6.7	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Phenanthrene	**1000**		42	6.2	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5
Pyrene	**2700**		42	5.9	ug/Kg	☼	06/10/21 08:56	06/15/21 18:54	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	104		39 - 120	06/10/21 08:56	06/15/21 18:54	2.5
Phenol-d5 (Surr)	89		28 - 120	06/10/21 08:56	06/15/21 18:54	2.5
Nitrobenzene-d5 (Surr)	79		28 - 120	06/10/21 08:56	06/15/21 18:54	2.5
2-Fluorophenol (Surr)	75		26 - 120	06/10/21 08:56	06/15/21 18:54	2.5
2-Fluorobiphenyl (Surr)	93		35 - 120	06/10/21 08:56	06/15/21 18:54	2.5
2,4,6-Tribromophenol (Surr)	69		10 - 120	06/10/21 08:56	06/15/21 18:54	2.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<25		56	25	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1221	<27		56	27	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1232	<26		56	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1242	<21		56	21	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1248	<27		56	27	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1254	<26		56	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1260	<25		56	25	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1262	<35		56	35	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1
Aroclor-1268	<26		56	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		14 - 128	06/10/21 09:20	06/12/21 16:15	1
DCB Decachlorobiphenyl	73		10 - 132	06/10/21 09:20	06/12/21 16:15	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**140**		21	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 16:10	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-5_0-2.5

Date Collected: 06/07/21 13:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-5

Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.41	J	2.6	0.25	mg/Kg	☼	06/10/21 14:00	06/14/21 20:20	5
Chromium	960		5.3	1.8	mg/Kg	☼	06/10/21 14:00	06/14/21 20:20	5
Silver	0.71	J	1.1	0.085	mg/Kg	☼	06/10/21 14:00	06/11/21 16:10	1
Arsenic	9.3		7.9	1.7	mg/Kg	☼	06/10/21 14:00	06/14/21 20:20	5
Lead	62		5.3	1.5	mg/Kg	☼	06/10/21 14:00	06/14/21 20:20	5
Selenium	<2.5		11	2.5	mg/Kg	☼	06/10/21 14:00	06/14/21 20:20	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082	J	0.13	0.023	mg/Kg	☼	06/10/21 14:00	06/11/21 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.0		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	11.0		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-6_10-12.5

Date Collected: 06/07/21 14:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-6

Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.2		6.2	2.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,1,2,2-Tetrachloroethane	<1.8		6.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.6		6.2	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,1,2-Trichloroethane	<1.4		6.2	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,1-Dichloroethane	<0.86		6.2	0.86	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,1-Dichloroethene	<2.3		6.2	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,2,4-Trichlorobenzene	<3.1		6.2	3.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,2-Dibromo-3-Chloropropane	<4.5		12	4.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Ethylene Dibromide	<0.96		6.2	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,2-Dichlorobenzene	<1.4		6.2	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,2-Dichloroethane	<0.96		6.2	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,2-Dichloropropane	<1.1		6.2	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,3-Dichlorobenzene	<1.0		6.2	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
1,4-Dichlorobenzene	<1.1		6.2	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
2-Butanone (MEK)	<4.4		25	4.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
2-Hexanone	<5.1		25	5.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
4-Methyl-2-pentanone (MIBK)	<4.6		25	4.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Acetone	<26		31	26	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Benzene	<0.87		6.2	0.87	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Dichlorobromomethane	<1.9		6.2	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Bromoform	<3.0		6.2	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Bromomethane	<5.2		6.2	5.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Carbon disulfide	<1.4		6.2	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Carbon tetrachloride	<4.0		6.2	4.0	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Chlorobenzene	<1.1		6.2	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Chloroethane	<3.4		6.2	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Chloroform	<0.98		6.2	0.98	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Chloromethane	<2.8		6.2	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
cis-1,2-Dichloroethene	<1.8		6.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
cis-1,3-Dichloropropene	<3.6		6.2	3.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Cyclohexane	<1.7		12	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Chlorodibromomethane	<3.5		6.2	3.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Dichlorodifluoromethane	<1.2		6.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Ethylbenzene	<1.3		6.2	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Isopropylbenzene	<2.4		6.2	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Methyl acetate	<4.2		31	4.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Methyl tert-butyl ether	<2.5		6.2	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Methylcyclohexane	<1.5		12	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Methylene Chloride	<15		31	15	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Styrene	<1.4		6.2	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Tetrachloroethene	<0.91		6.2	0.91	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Toluene	<0.96		6.2	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
trans-1,2-Dichloroethene	<1.8		6.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
trans-1,3-Dichloropropene	<4.6		6.2	4.6	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Trichloroethene	<0.79		6.2	0.79	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Trichlorofluoromethane	<3.3		6.2	3.3	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Vinyl chloride	<2.2		6.2	2.2	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1
Xylenes, Total	<2.0		12	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 15:44	1

Client Sample ID: B-6_10-12.5

Date Collected: 06/07/21 14:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-6

Matrix: Solid
Percent Solids: 79.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		64 - 124	06/10/21 09:51	06/10/21 15:44	1
Dibromofluoromethane (Surr)	86		56 - 122	06/10/21 09:51	06/10/21 15:44	1
4-Bromofluorobenzene (Surr)	95		51 - 127	06/10/21 09:51	06/10/21 15:44	1
1,2-Dichloroethane-d4 (Surr)	66		59 - 120	06/10/21 09:51	06/10/21 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		19	3.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Acenaphthylene	<5.0		19	5.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Anthracene	<3.0		19	3.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Benzo[a]anthracene	**11**	**J**	19	4.2	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Benzo[a]pyrene	**20**		19	12	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Benzo[b]fluoranthene	**20**		19	8.1	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Benzo[g,h,i]perylene	**14**	**J**	19	8.8	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Benzo[k]fluoranthene	<8.6		19	8.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Chrysene	**10**	**J**	19	1.9	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Dibenz(a,h)anthracene	<8.6		19	8.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Fluoranthene	**11**	**J**	19	5.5	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Fluorene	<3.4		19	3.4	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Indeno[1,2,3-cd]pyrene	<9.1		19	9.1	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Naphthalene	<3.0		19	3.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Phenanthrene	**15**	**J**	19	2.8	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1
Pyrene	**11**	**J**	19	2.7	ug/Kg	☼	06/10/21 08:56	06/14/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	94		39 - 120	06/10/21 08:56	06/14/21 16:30	1
Phenol-d5 (Surr)	74		28 - 120	06/10/21 08:56	06/14/21 16:30	1
Nitrobenzene-d5 (Surr)	66		28 - 120	06/10/21 08:56	06/14/21 16:30	1
2-Fluorophenol (Surr)	68		26 - 120	06/10/21 08:56	06/14/21 16:30	1
2-Fluorobiphenyl (Surr)	77		35 - 120	06/10/21 08:56	06/14/21 16:30	1
2,4,6-Tribromophenol (Surr)	70		10 - 120	06/10/21 08:56	06/14/21 16:30	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		60	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1221	<29		60	29	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1232	<28		60	28	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1242	<23		60	23	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1248	<29		60	29	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1254	<28		60	28	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1260	<26		60	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1262	<37		60	37	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1
Aroclor-1268	<28		60	28	ug/Kg	☼	06/10/21 09:20	06/12/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		14 - 128	06/10/21 09:20	06/12/21 16:30	1
DCB Decachlorobiphenyl	63		10 - 132	06/10/21 09:20	06/12/21 16:30	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**48**		22	0.40	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-6_10-12.5

Date Collected: 06/07/21 14:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-6

Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.21**	**J**	0.56	0.053	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1
Chromium	**6.9**		1.1	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1
Silver	<0.090		1.1	0.090	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1
Arsenic	**24**		1.7	0.35	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1
Lead	**9.0**		1.1	0.31	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1
Selenium	<0.52		2.2	0.52	mg/Kg	☼	06/10/21 14:00	06/11/21 16:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.024		0.13	0.024	mg/Kg	☼	06/10/21 14:00	06/11/21 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**79.5**		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	**20.5**		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-7_12.5-15

Date Collected: 06/07/21 14:55
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-7

Matrix: Solid
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.9		5.3	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,1,2,2-Tetrachloroethane	<1.5		5.3	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.3	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,1,2-Trichloroethane	<1.2		5.3	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,1-Dichloroethane	<0.73		5.3	0.73	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,1-Dichloroethene	<1.9		5.3	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,2,4-Trichlorobenzene	<2.6		5.3	2.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,2-Dibromo-3-Chloropropane	<3.8		11	3.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Ethylene Dibromide	<0.81		5.3	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,2-Dichlorobenzene	<1.2		5.3	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,2-Dichloroethane	<0.81		5.3	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,2-Dichloropropane	<0.89		5.3	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,3-Dichlorobenzene	<0.86		5.3	0.86	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
1,4-Dichlorobenzene	<0.93		5.3	0.93	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
2-Butanone (MEK)	<3.7		21	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
2-Hexanone	<4.3		21	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
4-Methyl-2-pentanone (MIBK)	<3.9		21	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Acetone	<22		26	22	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Benzene	<0.73		5.3	0.73	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Dichlorobromomethane	<1.6		5.3	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Bromoform	<2.5		5.3	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Bromomethane	<4.4		5.3	4.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Carbon disulfide	<1.2		5.3	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Carbon tetrachloride	<3.4		5.3	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Chlorobenzene	<0.96		5.3	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Chloroethane	<2.9		5.3	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Chloroform	<0.83		5.3	0.83	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Chloromethane	<2.4		5.3	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
cis-1,2-Dichloroethene	<1.6		5.3	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
cis-1,3-Dichloropropene	<3.0		5.3	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Cyclohexane	<1.4		11	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Chlorodibromomethane	<2.9		5.3	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Dichlorodifluoromethane	<0.99		5.3	0.99	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Ethylbenzene	<1.1		5.3	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Isopropylbenzene	<2.0		5.3	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Methyl acetate	<3.6		26	3.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Methyl tert-butyl ether	<2.1		5.3	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Methylcyclohexane	<1.3		11	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Methylene Chloride	<13		26	13	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Styrene	<1.2		5.3	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Tetrachloroethene	<0.77		5.3	0.77	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Toluene	<0.81		5.3	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
trans-1,2-Dichloroethene	<1.5		5.3	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
trans-1,3-Dichloropropene	<3.9		5.3	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Trichloroethene	<0.66		5.3	0.66	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Trichlorofluoromethane	<2.8		5.3	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Vinyl chloride	<1.9		5.3	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1
Xylenes, Total	<1.7		11	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:09	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-7_12.5-15

Date Collected: 06/07/21 14:55
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-7

Matrix: Solid
Percent Solids: 94.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		64 - 124	06/10/21 09:51	06/10/21 16:09	1
Dibromofluoromethane (Surr)	84		56 - 122	06/10/21 09:51	06/10/21 16:09	1
4-Bromofluorobenzene (Surr)	93		51 - 127	06/10/21 09:51	06/10/21 16:09	1
1,2-Dichloroethane-d4 (Surr)	65		59 - 120	06/10/21 09:51	06/10/21 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12	J	16	3.1	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Acenaphthylene	25		16	4.3	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Anthracene	41		16	2.6	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Benzo[a]anthracene	280		16	3.6	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Benzo[a]pyrene	250		16	10	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Benzo[b]fluoranthene	1100		16	7.0	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Benzo[g,h,i]perylene	300		16	7.6	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Benzo[k]fluoranthene	180		16	7.4	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Chrysene	1100		16	1.6	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Dibenz(a,h)anthracene	92		16	7.4	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Fluoranthene	520		16	4.8	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Fluorene	11	J	16	2.9	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Indeno[1,2,3-cd]pyrene	230		16	7.9	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Naphthalene	140		16	2.6	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Phenanthrene	260		16	2.4	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1
Pyrene	370		16	2.3	ug/Kg	☼	06/10/21 08:56	06/14/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	95		39 - 120	06/10/21 08:56	06/14/21 18:26	1
Phenol-d5 (Surr)	79		28 - 120	06/10/21 08:56	06/14/21 18:26	1
Nitrobenzene-d5 (Surr)	64		28 - 120	06/10/21 08:56	06/14/21 18:26	1
2-Fluorophenol (Surr)	68		26 - 120	06/10/21 08:56	06/14/21 18:26	1
2-Fluorobiphenyl (Surr)	76		35 - 120	06/10/21 08:56	06/14/21 18:26	1
2,4,6-Tribromophenol (Surr)	70		10 - 120	06/10/21 08:56	06/14/21 18:26	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<23		53	23	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1221	<26		53	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1232	<24		53	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1242	<20		53	20	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1248	<26		53	26	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1254	<24		53	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1260	<23		53	23	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1262	<33		53	33	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1
Aroclor-1268	<24		53	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		14 - 128	06/10/21 09:20	06/12/21 16:44	1
DCB Decachlorobiphenyl	58		10 - 132	06/10/21 09:20	06/12/21 16:44	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	99		15	0.28	mg/Kg	☼	06/10/21 14:00	06/11/21 16:19	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-7_12.5-15

Date Collected: 06/07/21 14:55
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-7

Matrix: Solid
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.1		0.77	0.074	mg/Kg	☼	06/10/21 14:00	06/14/21 20:24	2
Chromium	14		1.5	0.53	mg/Kg	☼	06/10/21 14:00	06/14/21 20:24	2
Silver	0.18	J	0.77	0.062	mg/Kg	☼	06/10/21 14:00	06/11/21 16:19	1
Arsenic	22		2.3	0.48	mg/Kg	☼	06/10/21 14:00	06/14/21 20:24	2
Lead	270		1.5	0.43	mg/Kg	☼	06/10/21 14:00	06/14/21 20:24	2
Selenium	<0.72		3.1	0.72	mg/Kg	☼	06/10/21 14:00	06/14/21 20:24	2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.11	0.019	mg/Kg	☼	06/10/21 14:00	06/11/21 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.6		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	5.4		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-8_12.5-15

Date Collected: 06/07/21 15:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-8

Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.8		5.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,1,2,2-Tetrachloroethane	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.2	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,1,2-Trichloroethane	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,1-Dichloroethane	<0.72		5.2	0.72	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,1-Dichloroethene	<1.9		5.2	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,2,4-Trichlorobenzene	<2.6		5.2	2.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,2-Dibromo-3-Chloropropane	<3.7		10	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Ethylene Dibromide	<0.80		5.2	0.80	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,2-Dichlorobenzene	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,2-Dichloroethane	<0.80		5.2	0.80	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,2-Dichloropropane	<0.88		5.2	0.88	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,3-Dichlorobenzene	<0.85		5.2	0.85	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
1,4-Dichlorobenzene	<0.91		5.2	0.91	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
2-Butanone (MEK)	**6.5**	**J**	21	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
2-Hexanone	<4.2		21	4.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
4-Methyl-2-pentanone (MIBK)	<3.9		21	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Acetone	**46**		26	22	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Benzene	<0.72		5.2	0.72	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Dichlorobromomethane	<1.6		5.2	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Bromoform	<2.5		5.2	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Bromomethane	<4.3		5.2	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Carbon disulfide	**2.2**	**J**	5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Carbon tetrachloride	<3.4		5.2	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Chlorobenzene	<0.95		5.2	0.95	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Chloroethane	<2.8		5.2	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Chloroform	<0.82		5.2	0.82	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Chloromethane	<2.4		5.2	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
cis-1,2-Dichloroethene	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
cis-1,3-Dichloropropene	<3.0		5.2	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Cyclohexane	<1.4		10	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Chlorodibromomethane	<2.9		5.2	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Dichlorodifluoromethane	<0.98		5.2	0.98	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Ethylbenzene	<1.1		5.2	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Isopropylbenzene	<2.0		5.2	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Methyl acetate	<3.5		26	3.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Methyl tert-butyl ether	<2.1		5.2	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Methylcyclohexane	<1.3		10	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Methylene Chloride	**19**	**J**	26	12	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Styrene	<1.2		5.2	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Tetrachloroethene	<0.76		5.2	0.76	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Toluene	<0.80		5.2	0.80	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
trans-1,2-Dichloroethene	<1.5		5.2	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
trans-1,3-Dichloropropene	<3.8		5.2	3.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Trichloroethene	<0.66		5.2	0.66	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Trichlorofluoromethane	<2.8		5.2	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Vinyl chloride	<1.8		5.2	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1
Xylenes, Total	<1.6		10	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 16:33	1

Client Sample ID: B-8_12.5-15

Date Collected: 06/07/21 15:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-8

Matrix: Solid
Percent Solids: 92.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*64 - 124*	*06/10/21 09:51*	*06/10/21 16:33*	*1*
Dibromofluoromethane (Surr)	*83*		*56 - 122*	*06/10/21 09:51*	*06/10/21 16:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*51 - 127*	*06/10/21 09:51*	*06/10/21 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*64*		*59 - 120*	*06/10/21 09:51*	*06/10/21 16:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.1		16	3.1	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Acenaphthylene	<4.4		16	4.4	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Anthracene	<2.6		16	2.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Benzo[a]anthracene	<3.7		16	3.7	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Benzo[a]pyrene	<10		16	10	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Benzo[b]fluoranthene	<7.1		16	7.1	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Benzo[g,h,i]perylene	<7.7		16	7.7	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Benzo[k]fluoranthene	<7.5		16	7.5	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Chrysene	<1.6		16	1.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Dibenz(a,h)anthracene	<7.5		16	7.5	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Fluoranthene	<4.8		16	4.8	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Fluorene	<3.0		16	3.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Indeno[1,2,3-cd]pyrene	<8.0		16	8.0	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Naphthalene	**5.8**	**J**	16	2.6	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Phenanthrene	<2.4		16	2.4	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1
Pyrene	<2.3		16	2.3	ug/Kg	☼	06/10/21 08:56	06/14/21 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*87*		*39 - 120*	*06/10/21 08:56*	*06/14/21 16:54*	*1*
Phenol-d5 (Surr)	*61*		*28 - 120*	*06/10/21 08:56*	*06/14/21 16:54*	*1*
Nitrobenzene-d5 (Surr)	*53*		*28 - 120*	*06/10/21 08:56*	*06/14/21 16:54*	*1*
2-Fluorophenol (Surr)	*57*		*26 - 120*	*06/10/21 08:56*	*06/14/21 16:54*	*1*
2-Fluorobiphenyl (Surr)	*63*		*35 - 120*	*06/10/21 08:56*	*06/14/21 16:54*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 120*	*06/10/21 08:56*	*06/14/21 16:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<23		53	23	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1221	<25		53	25	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1232	<24		53	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1242	<20		53	20	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1248	<25		53	25	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1254	<24		53	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1260	<23		53	23	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1262	<33		53	33	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1
Aroclor-1268	<24		53	24	ug/Kg	☼	06/10/21 09:20	06/12/21 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*14 - 128*	*06/10/21 09:20*	*06/12/21 16:59*	*1*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*06/10/21 09:20*	*06/12/21 16:59*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**18**		17	0.31	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-8_12.5-15

Date Collected: 06/07/21 15:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-8

Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.29**	**J**	0.43	0.041	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1
Chromium	**5.4**		0.85	0.29	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1
Silver	<0.069		0.85	0.069	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1
Arsenic	**13**		1.3	0.27	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1
Lead	**9.8**		0.85	0.24	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1
Selenium	<0.40		1.7	0.40	mg/Kg	☼	06/10/21 14:00	06/11/21 16:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.12	0.021	mg/Kg	☼	06/10/21 14:00	06/11/21 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**92.4**		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	**7.6**		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-9_0-2.5

Date Collected: 06/07/21 15:40
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-9

Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.1		6.0	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,1,2,2-Tetrachloroethane	<1.7	*3	6.0	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.5		6.0	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,1,2-Trichloroethane	<1.4		6.0	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,1-Dichloroethane	<0.84		6.0	0.84	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,1-Dichloroethene	<2.2		6.0	2.2	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,2,4-Trichlorobenzene	<3.0	*3	6.0	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,2-Dibromo-3-Chloropropane	<4.4	*3	12	4.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Ethylene Dibromide	<0.93		6.0	0.93	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,2-Dichlorobenzene	<1.3	*3	6.0	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,2-Dichloroethane	<0.93		6.0	0.93	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,2-Dichloropropane	<1.0		6.0	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,3-Dichlorobenzene	<0.99	*3	6.0	0.99	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
1,4-Dichlorobenzene	<1.1	*3	6.0	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
2-Butanone (MEK)	<4.3		24	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
2-Hexanone	<4.9		24	4.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
4-Methyl-2-pentanone (MIBK)	<4.5		24	4.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Acetone	<25		30	25	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Benzene	<0.84		6.0	0.84	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Dichlorobromomethane	<1.8		6.0	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Bromoform	<2.9		6.0	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Bromomethane	<5.0		6.0	5.0	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Carbon disulfide	**4.8**	**J**	6.0	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Carbon tetrachloride	<3.9		6.0	3.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Chlorobenzene	<1.1		6.0	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Chloroethane	<3.3		6.0	3.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Chloroform	<0.95		6.0	0.95	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Chloromethane	<2.8		6.0	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
cis-1,2-Dichloroethene	<1.8		6.0	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
cis-1,3-Dichloropropene	<3.5		6.0	3.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Cyclohexane	<1.7		12	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Chlorodibromomethane	<3.4		6.0	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Dichlorodifluoromethane	<1.1		6.0	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Ethylbenzene	<1.3		6.0	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Isopropylbenzene	<2.3		6.0	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Methyl acetate	<4.1		30	4.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Methyl tert-butyl ether	<2.4		6.0	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Methylcyclohexane	<1.5		12	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Methylene Chloride	<14		30	14	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Styrene	<1.4		6.0	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Tetrachloroethene	**0.91**	**J**	6.0	0.88	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Toluene	<0.93		6.0	0.93	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
trans-1,2-Dichloroethene	<1.7		6.0	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
trans-1,3-Dichloropropene	<4.5		6.0	4.5	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Trichloroethene	<0.76		6.0	0.76	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Trichlorofluoromethane	<3.3		6.0	3.3	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Vinyl chloride	<2.1		6.0	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1
Xylenes, Total	<1.9		12	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 16:57	1

Client Sample ID: B-9_0-2.5

Date Collected: 06/07/21 15:40
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-9

Matrix: Solid
Percent Solids: 76.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		64 - 124	06/10/21 09:51	06/10/21 16:57	1
Dibromofluoromethane (Surr)	88		56 - 122	06/10/21 09:51	06/10/21 16:57	1
4-Bromofluorobenzene (Surr)	122	*3	51 - 127	06/10/21 09:51	06/10/21 16:57	1
1,2-Dichloroethane-d4 (Surr)	69		59 - 120	06/10/21 09:51	06/10/21 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.7		19	3.7	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Acenaphthylene	**18**	**J**	19	5.2	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Anthracene	**20**		19	3.1	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Benzo[a]anthracene	**150**		19	4.4	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Benzo[a]pyrene	**290**		19	12	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Benzo[b]fluoranthene	**400**		19	8.4	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Benzo[g,h,i]perylene	**660**		19	9.2	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Benzo[k]fluoranthene	**94**		19	9.0	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Chrysene	**210**		19	1.9	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Dibenz(a,h)anthracene	**240**		19	9.0	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Fluoranthene	**190**		19	5.8	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Fluorene	<3.5		19	3.5	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Indeno[1,2,3-cd]pyrene	**350**		19	9.5	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Naphthalene	**95**		19	3.1	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Phenanthrene	**130**		19	2.9	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1
Pyrene	**170**		19	2.8	ug/Kg	☼	06/10/21 08:56	06/15/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	77		39 - 120	06/10/21 08:56	06/15/21 17:22	1
Phenol-d5 (Surr)	76		28 - 120	06/10/21 08:56	06/15/21 17:22	1
Nitrobenzene-d5 (Surr)	60		28 - 120	06/10/21 08:56	06/15/21 17:22	1
2-Fluorophenol (Surr)	69		26 - 120	06/10/21 08:56	06/15/21 17:22	1
2-Fluorobiphenyl (Surr)	71		35 - 120	06/10/21 08:56	06/15/21 17:22	1
2,4,6-Tribromophenol (Surr)	64		10 - 120	06/10/21 08:56	06/15/21 17:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<30		69	30	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1221	<33		69	33	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1232	<32		69	32	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1242	<26		69	26	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1248	<33		69	33	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1254	<32		69	32	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1260	<30		69	30	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1262	<43		69	43	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1
Aroclor-1268	<32		69	32	ug/Kg	☼	06/10/21 09:20	06/12/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		14 - 128	06/10/21 09:20	06/12/21 17:13	1
DCB Decachlorobiphenyl	51		10 - 132	06/10/21 09:20	06/12/21 17:13	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1200**		22	0.41	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-9_0-2.5

Date Collected: 06/07/21 15:40
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-9

Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.86		0.56	0.054	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1
Chromium	22		1.1	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1
Silver	0.18	J	1.1	0.091	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1
Arsenic	13		1.7	0.35	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1
Lead	1600		1.1	0.32	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1
Selenium	<0.53		2.2	0.53	mg/Kg	☼	06/10/21 14:00	06/11/21 16:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067	J	0.12	0.021	mg/Kg	☼	06/10/21 14:00	06/11/21 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.2		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	23.8		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-10_12.5-15

Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-10

Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		5.7	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,1,2,2-Tetrachloroethane	<1.6		5.7	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.4		5.7	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,1,2-Trichloroethane	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,1-Dichloroethane	<0.78		5.7	0.78	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,1-Dichloroethene	<2.1		5.7	2.1	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,2,4-Trichlorobenzene	<2.8		5.7	2.8	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,2-Dibromo-3-Chloropropane	<4.1		11	4.1	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Ethylene Dibromide	<0.87		5.7	0.87	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,2-Dichlorobenzene	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,2-Dichloroethane	<0.87		5.7	0.87	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,2-Dichloropropane	<0.96		5.7	0.96	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,3-Dichlorobenzene	<0.92		5.7	0.92	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
1,4-Dichlorobenzene	<1.0		5.7	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
2-Butanone (MEK)	<4.0		23	4.0	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
2-Hexanone	<4.6		23	4.6	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
4-Methyl-2-pentanone (MIBK)	<4.2		23	4.2	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Acetone	<24		28	24	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Benzene	<0.79		5.7	0.79	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Dichlorobromomethane	<1.7		5.7	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Bromoform	<2.7		5.7	2.7	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Bromomethane	<4.7		5.7	4.7	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Carbon disulfide	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Carbon tetrachloride	<3.7		5.7	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Chlorobenzene	<1.0		5.7	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Chloroethane	<3.1		5.7	3.1	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Chloroform	<0.89		5.7	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Chloromethane	<2.6		5.7	2.6	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
cis-1,2-Dichloroethene	<1.7		5.7	1.7	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
cis-1,3-Dichloropropene	<3.3		5.7	3.3	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Cyclohexane	<1.6		11	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Chlorodibromomethane	<3.1		5.7	3.1	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Dichlorodifluoromethane	<1.1		5.7	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Ethylbenzene	<1.2		5.7	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Isopropylbenzene	<2.2		5.7	2.2	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Methyl acetate	<3.8		28	3.8	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Methyl tert-butyl ether	<2.2		5.7	2.2	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Methylcyclohexane	<1.4		11	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Methylene Chloride	**63**		28	14	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Styrene	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Tetrachloroethene	<0.83		5.7	0.83	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Toluene	<0.87		5.7	0.87	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
trans-1,2-Dichloroethene	<1.6		5.7	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
trans-1,3-Dichloropropene	<4.2		5.7	4.2	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Trichloroethene	**0.86**	**J**	5.7	0.72	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Trichlorofluoromethane	<3.0		5.7	3.0	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Vinyl chloride	<2.0		5.7	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1
Xylenes, Total	<1.8		11	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 17:21	1

Client Sample ID: B-10_12.5-15

Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-10

Matrix: Solid
Percent Solids: 87.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		64 - 124	06/10/21 09:51	06/10/21 17:21	1
Dibromofluoromethane (Surr)	85		56 - 122	06/10/21 09:51	06/10/21 17:21	1
4-Bromofluorobenzene (Surr)	98		51 - 127	06/10/21 09:51	06/10/21 17:21	1
1,2-Dichloroethane-d4 (Surr)	66		59 - 120	06/10/21 09:51	06/10/21 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.3		17	3.3	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Acenaphthylene	**24**		17	4.6	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Anthracene	**28**		17	2.8	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Benzo[a]anthracene	**180**		17	3.9	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Benzo[a]pyrene	**190**		17	11	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Benzo[b]fluoranthene	**260**		17	7.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Benzo[g,h,i]perylene	**130**		17	8.2	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Benzo[k]fluoranthene	**72**		17	8.0	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Chrysene	**180**		17	1.7	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Dibenz(a,h)anthracene	**39**		17	8.0	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Fluoranthene	**260**		17	5.1	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Fluorene	**5.7**	**J**	17	3.2	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Indeno[1,2,3-cd]pyrene	**110**		17	8.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Naphthalene	**26**		17	2.8	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Phenanthrene	**120**		17	2.6	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1
Pyrene	**270**		17	2.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	104		39 - 120	06/10/21 08:56	06/15/21 16:13	1
Phenol-d5 (Surr)	67		28 - 120	06/10/21 08:56	06/15/21 16:13	1
Nitrobenzene-d5 (Surr)	60		28 - 120	06/10/21 08:56	06/15/21 16:13	1
2-Fluorophenol (Surr)	59		26 - 120	06/10/21 08:56	06/15/21 16:13	1
2-Fluorobiphenyl (Surr)	72		35 - 120	06/10/21 08:56	06/15/21 16:13	1
2,4,6-Tribromophenol (Surr)	63		10 - 120	06/10/21 08:56	06/15/21 16:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		59	26	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1221	<28		59	28	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1232	<27		59	27	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1242	<22		59	22	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1248	<28		59	28	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1254	<27		59	27	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1260	<26		59	26	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1262	<37		59	37	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1
Aroclor-1268	<27		59	27	ug/Kg	☼	06/10/21 09:20	06/12/21 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		14 - 128	06/10/21 09:20	06/12/21 17:28	1
DCB Decachlorobiphenyl	52		10 - 132	06/10/21 09:20	06/12/21 17:28	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**160**		16	0.29	mg/Kg	☼	06/10/21 14:00	06/11/21 16:33	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-10_12.5-15

Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-10

Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.6		0.81	0.078	mg/Kg	☼	06/10/21 14:00	06/14/21 20:28	2
Chromium	16		0.81	0.28	mg/Kg	☼	06/10/21 14:00	06/11/21 16:33	1
Silver	0.12	J	0.81	0.066	mg/Kg	☼	06/10/21 14:00	06/11/21 16:33	1
Arsenic	16		1.2	0.26	mg/Kg	☼	06/10/21 14:00	06/11/21 16:33	1
Lead	2700		1.6	0.46	mg/Kg	☼	06/10/21 14:00	06/14/21 20:28	2
Selenium	<0.38		1.6	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 16:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.13	0.023	mg/Kg	☼	06/10/21 14:00	06/11/21 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.1		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	12.9		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-10-12.5-15 DUP

Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-11

Matrix: Solid
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.3		6.4	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,1,2,2-Tetrachloroethane	<1.8		6.4	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.6		6.4	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,1,2-Trichloroethane	<1.4		6.4	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,1-Dichloroethane	<0.88		6.4	0.88	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,1-Dichloroethene	<2.3		6.4	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,2,4-Trichlorobenzene	<3.2		6.4	3.2	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,2-Dibromo-3-Chloropropane	<4.6		13	4.6	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Ethylene Dibromide	<0.98		6.4	0.98	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,2-Dichlorobenzene	<1.4		6.4	1.4	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,2-Dichloroethane	<0.98		6.4	0.98	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,2-Dichloropropane	<1.1		6.4	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,3-Dichlorobenzene	<1.0		6.4	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
1,4-Dichlorobenzene	<1.1		6.4	1.1	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
2-Butanone (MEK)	<4.5		25	4.5	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
2-Hexanone	<5.2		25	5.2	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
4-Methyl-2-pentanone (MIBK)	<4.7		25	4.7	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Acetone	<27		32	27	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Benzene	<0.89		6.4	0.89	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Dichlorobromomethane	<1.9		6.4	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Bromoform	<3.1		6.4	3.1	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Bromomethane	<5.3		6.4	5.3	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Carbon disulfide	<1.5		6.4	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Carbon tetrachloride	<4.1		6.4	4.1	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Chlorobenzene	<1.2		6.4	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Chloroethane	<3.5		6.4	3.5	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Chloroform	<1.0		6.4	1.0	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Chloromethane	<2.9		6.4	2.9	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
cis-1,2-Dichloroethene	<1.9		6.4	1.9	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
cis-1,3-Dichloropropene	<3.7		6.4	3.7	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Cyclohexane	<1.8		13	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Chlorodibromomethane	<3.5		6.4	3.5	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Dichlorodifluoromethane	<1.2		6.4	1.2	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Ethylbenzene	<1.3		6.4	1.3	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Isopropylbenzene	<2.4		6.4	2.4	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Methyl acetate	<4.3		32	4.3	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Methyl tert-butyl ether	<2.5		6.4	2.5	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Methylcyclohexane	<1.6		13	1.6	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Methylene Chloride	**190**		62	30	ug/Kg	☼	06/11/21 17:22	06/11/21 20:05	1
Styrene	<1.5		6.4	1.5	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Tetrachloroethene	<0.93		6.4	0.93	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Toluene	<0.98		6.4	0.98	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
trans-1,2-Dichloroethene	<1.8		6.4	1.8	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
trans-1,3-Dichloropropene	<4.7		6.4	4.7	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Trichloroethene	**1.1**	**J**	6.4	0.81	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Trichlorofluoromethane	<3.4		6.4	3.4	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Vinyl chloride	<2.3		6.4	2.3	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1
Xylenes, Total	<2.0		13	2.0	ug/Kg	☼	06/10/21 09:51	06/10/21 18:35	1

Client Sample ID: B-10-12.5-15 DUP

Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-11

Matrix: Solid
Percent Solids: 77.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		64 - 124	06/10/21 09:51	06/10/21 18:35	1
Toluene-d8 (Surr)	93		64 - 124	06/11/21 17:22	06/11/21 20:05	1
Dibromofluoromethane (Surr)	84		56 - 122	06/10/21 09:51	06/10/21 18:35	1
Dibromofluoromethane (Surr)	103		56 - 122	06/11/21 17:22	06/11/21 20:05	1
4-Bromofluorobenzene (Surr)	102		51 - 127	06/10/21 09:51	06/10/21 18:35	1
4-Bromofluorobenzene (Surr)	92		51 - 127	06/11/21 17:22	06/11/21 20:05	1
1,2-Dichloroethane-d4 (Surr)	63		59 - 120	06/10/21 09:51	06/10/21 18:35	1
1,2-Dichloroethane-d4 (Surr)	88		59 - 120	06/11/21 17:22	06/11/21 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.7		19	3.7	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Acenaphthylene	**13**	**J**	19	5.2	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Anthracene	**10**	**J**	19	3.1	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Benzo[a]anthracene	**68**		19	4.4	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Benzo[a]pyrene	**80**		19	12	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Benzo[b]fluoranthene	**110**		19	8.4	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Benzo[g,h,i]perylene	**69**		19	9.1	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Benzo[k]fluoranthene	**36**		19	8.9	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Chrysene	**65**		19	1.9	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Dibenz(a,h)anthracene	**19**		19	8.9	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Fluoranthene	**110**		19	5.7	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Fluorene	<3.5		19	3.5	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Indeno[1,2,3-cd]pyrene	**62**		19	9.5	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Naphthalene	**39**		19	3.1	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Phenanthrene	**67**		19	2.9	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1
Pyrene	**95**		19	2.7	ug/Kg	☼	06/10/21 08:56	06/15/21 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	100		39 - 120	06/10/21 08:56	06/15/21 15:47	1
Phenol-d5 (Surr)	74		28 - 120	06/10/21 08:56	06/15/21 15:47	1
Nitrobenzene-d5 (Surr)	64		28 - 120	06/10/21 08:56	06/15/21 15:47	1
2-Fluorophenol (Surr)	64		26 - 120	06/10/21 08:56	06/15/21 15:47	1
2-Fluorobiphenyl (Surr)	83		35 - 120	06/10/21 08:56	06/15/21 15:47	1
2,4,6-Tribromophenol (Surr)	62		10 - 120	06/10/21 08:56	06/15/21 15:47	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<27		62	27	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1221	<30		62	30	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1232	<29		62	29	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1242	<24		62	24	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1248	<30		62	30	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1254	<29		62	29	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1260	<27		62	27	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1262	<39		62	39	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1
Aroclor-1268	<29		62	29	ug/Kg	☼	06/10/21 09:20	06/12/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		14 - 128	06/10/21 09:20	06/12/21 17:43	1
DCB Decachlorobiphenyl	63		10 - 132	06/10/21 09:20	06/12/21 17:43	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-10-12.5-15 DUP

Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-11

Matrix: Solid
Percent Solids: 77.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	160		24	0.43	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1
Cadmium	2.2		0.60	0.058	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1
Chromium	18		1.2	0.41	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1
Silver	0.17	J	1.2	0.097	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1
Arsenic	16		1.8	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1
Lead	960		1.2	0.34	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1
Selenium	<0.56		2.4	0.56	mg/Kg	☼	06/10/21 14:00	06/11/21 16:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50		0.13	0.024	mg/Kg	☼	06/10/21 14:00	06/11/21 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.1		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	22.9		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-11_2.5-5

Date Collected: 06/08/21 11:05
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-12

Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		5.7	2.0	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,1,2,2-Tetrachloroethane	<1.6		5.7	1.6	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.5		5.7	1.5	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,1,2-Trichloroethane	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,1-Dichloroethane	<0.79		5.7	0.79	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,1-Dichloroethene	<2.1		5.7	2.1	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,2,4-Trichlorobenzene	<2.8		5.7	2.8	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,2-Dibromo-3-Chloropropane	<4.1		11	4.1	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Ethylene Dibromide	<0.87		5.7	0.87	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,2-Dichlorobenzene	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,2-Dichloroethane	<0.87		5.7	0.87	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,2-Dichloropropane	<0.96		5.7	0.96	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,3-Dichlorobenzene	<0.92		5.7	0.92	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
1,4-Dichlorobenzene	<1.0		5.7	1.0	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
2-Butanone (MEK)	<4.0		23	4.0	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
2-Hexanone	<4.6		23	4.6	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
4-Methyl-2-pentanone (MIBK)	<4.2		23	4.2	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Acetone	<24		28	24	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Benzene	**1.1**	**J**	5.7	0.79	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Dichlorobromomethane	<1.7		5.7	1.7	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Bromoform	<2.7		5.7	2.7	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Bromomethane	<4.7		5.7	4.7	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Carbon disulfide	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Carbon tetrachloride	<3.7		5.7	3.7	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Chlorobenzene	<1.0		5.7	1.0	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Chloroethane	<3.1	F1 *+	5.7	3.1	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Chloroform	<0.89		5.7	0.89	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Chloromethane	<2.6		5.7	2.6	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
cis-1,2-Dichloroethene	<1.7		5.7	1.7	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
cis-1,3-Dichloropropene	<3.3		5.7	3.3	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Cyclohexane	<1.6		11	1.6	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Chlorodibromomethane	<3.2		5.7	3.2	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Dichlorodifluoromethane	<1.1		5.7	1.1	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Ethylbenzene	<1.2		5.7	1.2	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Isopropylbenzene	<2.2		5.7	2.2	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Methyl acetate	<3.9		28	3.9	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Methyl tert-butyl ether	<2.2		5.7	2.2	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Methylcyclohexane	<1.4		11	1.4	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Methylene Chloride	**51**		28	14	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Styrene	<1.3		5.7	1.3	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Tetrachloroethene	<0.83		5.7	0.83	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Toluene	**2.9**	**J**	5.7	0.88	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
trans-1,2-Dichloroethene	<1.6		5.7	1.6	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
trans-1,3-Dichloropropene	<4.2		5.7	4.2	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Trichloroethene	<0.72		5.7	0.72	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Trichlorofluoromethane	<3.0		5.7	3.0	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Vinyl chloride	<2.0		5.7	2.0	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1
Xylenes, Total	<1.8		11	1.8	ug/Kg	☼	06/10/21 16:51	06/10/21 20:17	1

Client Sample ID: B-11_2.5-5

Date Collected: 06/08/21 11:05
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-12

Matrix: Solid
Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		64 - 124	06/10/21 16:51	06/10/21 20:17	1
Dibromofluoromethane (Surr)	100		56 - 122	06/10/21 16:51	06/10/21 20:17	1
4-Bromofluorobenzene (Surr)	96		51 - 127	06/10/21 16:51	06/10/21 20:17	1
1,2-Dichloroethane-d4 (Surr)	88		59 - 120	06/10/21 16:51	06/10/21 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	42	J	69	13	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Acenaphthylene	230		69	18	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Anthracene	1600		69	11	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Benzo[a]anthracene	2500		69	16	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Benzo[a]pyrene	1900		69	43	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Benzo[b]fluoranthene	2500		69	30	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Benzo[g,h,i]perylene	1100		69	33	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Benzo[k]fluoranthene	1100		69	32	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Chrysene	2400		69	6.9	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Dibenz(a,h)anthracene	320		69	32	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Fluoranthene	5600		69	21	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Fluorene	300		69	13	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Indeno[1,2,3-cd]pyrene	1100		69	34	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Naphthalene	110		69	11	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Phenanthrene	3700		69	10	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4
Pyrene	4200		69	9.9	ug/Kg	☼	06/10/21 08:56	06/15/21 18:31	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	95		39 - 120	06/10/21 08:56	06/15/21 18:31	4
Phenol-d5 (Surr)	67		28 - 120	06/10/21 08:56	06/15/21 18:31	4
Nitrobenzene-d5 (Surr)	57		28 - 120	06/10/21 08:56	06/15/21 18:31	4
2-Fluorophenol (Surr)	61		26 - 120	06/10/21 08:56	06/15/21 18:31	4
2-Fluorobiphenyl (Surr)	77		35 - 120	06/10/21 08:56	06/15/21 18:31	4
2,4,6-Tribromophenol (Surr)	52		10 - 120	06/10/21 08:56	06/15/21 18:31	4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<27		61	27	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1221	<29		61	29	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1232	<28		61	28	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1242	<23		61	23	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1248	<29		61	29	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1254	<28		61	28	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1260	<27		61	27	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1262	<38		61	38	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1
Aroclor-1268	<28		61	28	ug/Kg	☼	06/10/21 09:20	06/12/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	43		14 - 128	06/10/21 09:20	06/12/21 18:41	1
DCB Decachlorobiphenyl	58		10 - 132	06/10/21 09:20	06/12/21 18:41	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	140		22	0.40	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-11_2.5-5

Date Collected: 06/08/21 11:05
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-12

Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.29	J	0.55	0.053	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1
Chromium	7.9		1.1	0.38	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1
Silver	0.16	J	1.1	0.090	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1
Arsenic	16		1.7	0.35	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1
Lead	29		1.1	0.31	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1
Selenium	<0.52		2.2	0.52	mg/Kg	☼	06/10/21 14:00	06/11/21 16:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.11	0.020	mg/Kg	☼	06/10/21 14:00	06/11/21 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.3		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	14.7		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-12_10-12.5

Date Collected: 06/08/21 11:45
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-13

Matrix: Solid
Percent Solids: 69.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.5		7.0	2.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,1,2,2-Tetrachloroethane	<2.0		7.0	2.0	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.8		7.0	1.8	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,1,2-Trichloroethane	<1.6		7.0	1.6	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,1-Dichloroethane	<0.96		7.0	0.96	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,1-Dichloroethene	<2.5		7.0	2.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,2,4-Trichlorobenzene	<3.5		7.0	3.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,2-Dibromo-3-Chloropropane	<5.0		14	5.0	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Ethylene Dibromide	<1.1		7.0	1.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,2-Dichlorobenzene	<1.5		7.0	1.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,2-Dichloroethane	<1.1		7.0	1.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,2-Dichloropropane	<1.2		7.0	1.2	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,3-Dichlorobenzene	<1.1		7.0	1.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
1,4-Dichlorobenzene	<1.2		7.0	1.2	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
2-Butanone (MEK)	**48**		28	4.9	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
2-Hexanone	<5.7		28	5.7	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
4-Methyl-2-pentanone (MIBK)	<5.2		28	5.2	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Acetone	**240**		35	29	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Benzene	<0.97		7.0	0.97	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Dichlorobromomethane	<2.1		7.0	2.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Bromoform	<3.3		7.0	3.3	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Bromomethane	<5.8		7.0	5.8	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Carbon disulfide	**1.8**	**J**	7.0	1.6	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Carbon tetrachloride	<4.5		7.0	4.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Chlorobenzene	<1.3		7.0	1.3	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Chloroethane	<3.8	*+	7.0	3.8	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Chloroform	<1.1		7.0	1.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Chloromethane	<3.2		7.0	3.2	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
cis-1,2-Dichloroethene	<2.1		7.0	2.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
cis-1,3-Dichloropropene	<4.0		7.0	4.0	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Cyclohexane	<1.9		14	1.9	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Chlorodibromomethane	<3.9		7.0	3.9	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Dichlorodifluoromethane	<1.3		7.0	1.3	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Ethylbenzene	<1.5		7.0	1.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Isopropylbenzene	<2.7		7.0	2.7	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Methyl acetate	<4.7		35	4.7	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Methyl tert-butyl ether	<2.8		7.0	2.8	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Methylcyclohexane	<1.7		14	1.7	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Methylene Chloride	**31**	**J**	35	17	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Styrene	<1.6		7.0	1.6	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Tetrachloroethene	<1.0		7.0	1.0	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Toluene	<1.1		7.0	1.1	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
trans-1,2-Dichloroethene	<2.0		7.0	2.0	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
trans-1,3-Dichloropropene	<5.2		7.0	5.2	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Trichloroethene	<0.88		7.0	0.88	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Trichlorofluoromethane	<3.7		7.0	3.7	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Vinyl chloride	<2.5		7.0	2.5	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1
Xylenes, Total	<2.2		14	2.2	ug/Kg	☼	06/10/21 16:51	06/10/21 21:32	1

Client Sample ID: B-12_10-12.5

Date Collected: 06/08/21 11:45
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-13

Matrix: Solid
Percent Solids: 69.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		64 - 124	06/10/21 16:51	06/10/21 21:32	1
Dibromofluoromethane (Surr)	103		56 - 122	06/10/21 16:51	06/10/21 21:32	1
4-Bromofluorobenzene (Surr)	98		51 - 127	06/10/21 16:51	06/10/21 21:32	1
1,2-Dichloroethane-d4 (Surr)	91		59 - 120	06/10/21 16:51	06/10/21 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<4.2		22	4.2	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Acenaphthylene	<5.8		22	5.8	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Anthracene	<3.5		22	3.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Benzo[a]anthracene	<5.0		22	5.0	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Benzo[a]pyrene	<14		22	14	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Benzo[b]fluoranthene	<9.5		22	9.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Benzo[g,h,i]perylene	<10		22	10	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Benzo[k]fluoranthene	<10		22	10	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Chrysene	<2.2		22	2.2	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Dibenz(a,h)anthracene	<10		22	10	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Fluoranthene	<6.5		22	6.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Fluorene	<4.0		22	4.0	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Indeno[1,2,3-cd]pyrene	<11		22	11	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Naphthalene	<3.5		22	3.5	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Phenanthrene	<3.2		22	3.2	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1
Pyrene	**5.5**	**J**	22	3.1	ug/Kg	☼	06/10/21 08:56	06/15/21 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	91		39 - 120	06/10/21 08:56	06/15/21 16:36	1
Phenol-d5 (Surr)	74		28 - 120	06/10/21 08:56	06/15/21 16:36	1
Nitrobenzene-d5 (Surr)	62		28 - 120	06/10/21 08:56	06/15/21 16:36	1
2-Fluorophenol (Surr)	66		26 - 120	06/10/21 08:56	06/15/21 16:36	1
2-Fluorobiphenyl (Surr)	75		35 - 120	06/10/21 08:56	06/15/21 16:36	1
2,4,6-Tribromophenol (Surr)	74		10 - 120	06/10/21 08:56	06/15/21 16:36	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<32		72	32	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1221	<35		72	35	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1232	<33		72	33	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1242	<28		72	28	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1248	<35		72	35	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1254	<33		72	33	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1260	<32		72	32	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1262	<45		72	45	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1
Aroclor-1268	<33		72	33	ug/Kg	☼	06/10/21 09:20	06/12/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		14 - 128	06/10/21 09:20	06/12/21 18:55	1
DCB Decachlorobiphenyl	62		10 - 132	06/10/21 09:20	06/12/21 18:55	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**95**		25	0.45	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-12_10-12.5

Date Collected: 06/08/21 11:45
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-13

Matrix: Solid
Percent Solids: 69.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.23**	**J**	0.62	0.059	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1
Chromium	**7.7**		1.2	0.42	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1
Silver	<0.10		1.2	0.10	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1
Arsenic	**4.7**		1.9	0.39	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1
Lead	**7.4**		1.2	0.35	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1
Selenium	<0.58		2.5	0.58	mg/Kg	☼	06/10/21 14:00	06/11/21 16:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.027		0.15	0.027	mg/Kg	☼	06/10/21 14:00	06/11/21 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**69.1**		0.1	0.1	%			06/10/21 12:41	1
Percent Moisture	**30.9**		0.1	0.1	%			06/10/21 12:41	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-1_GW 1

Date Collected: 06/07/21 16:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.48		1.0	0.48	ug/L			06/11/21 14:31	1
1,1,2,2-Tetrachloroethane	<0.60		1.0	0.60	ug/L			06/11/21 14:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.41		1.0	0.41	ug/L			06/11/21 14:31	1
1,1,2-Trichloroethane	<0.48		1.0	0.48	ug/L			06/11/21 14:31	1
1,1-Dichloroethane	<0.47		1.0	0.47	ug/L			06/11/21 14:31	1
1,1-Dichloroethene	<0.49		1.0	0.49	ug/L			06/11/21 14:31	1
1,2,4-Trichlorobenzene	<0.77		1.0	0.77	ug/L			06/11/21 14:31	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			06/11/21 14:31	1
Ethylene Dibromide	<0.41		1.0	0.41	ug/L			06/11/21 14:31	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L			06/11/21 14:31	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			06/11/21 14:31	1
1,2-Dichloropropane	<0.47		1.0	0.47	ug/L			06/11/21 14:31	1
1,3-Dichlorobenzene	<0.45		1.0	0.45	ug/L			06/11/21 14:31	1
1,4-Dichlorobenzene	<0.41		1.0	0.41	ug/L			06/11/21 14:31	1
2-Butanone (MEK)	<1.2		10	1.2	ug/L			06/11/21 14:31	1
2-Hexanone	<1.1		10	1.1	ug/L			06/11/21 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.99		10	0.99	ug/L			06/11/21 14:31	1
Acetone	**24**		10	5.4	ug/L			06/11/21 14:31	1
Benzene	<0.42		1.0	0.42	ug/L			06/11/21 14:31	1
Dichlorobromomethane	<0.17		1.0	0.17	ug/L			06/11/21 14:31	1
Bromoform	<0.76		1.0	0.76	ug/L			06/11/21 14:31	1
Bromomethane	<0.42		1.0	0.42	ug/L			06/11/21 14:31	1
Carbon disulfide	<0.59		1.0	0.59	ug/L			06/11/21 14:31	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			06/11/21 14:31	1
Chlorobenzene	<0.38		1.0	0.38	ug/L			06/11/21 14:31	1
Chloroethane	<0.83		1.0	0.83	ug/L			06/11/21 14:31	1
Chloroform	<0.47		1.0	0.47	ug/L			06/11/21 14:31	1
Chloromethane	<0.63		1.0	0.63	ug/L			06/11/21 14:31	1
cis-1,2-Dichloroethene	<0.46		1.0	0.46	ug/L			06/11/21 14:31	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			06/11/21 14:31	1
Cyclohexane	<0.48		1.0	0.48	ug/L			06/11/21 14:31	1
Chlorodibromomethane	<0.39		1.0	0.39	ug/L			06/11/21 14:31	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			06/11/21 14:31	1
Ethylbenzene	**0.58**	**J**	1.0	0.42	ug/L			06/11/21 14:31	1
Isopropylbenzene	<0.49		1.0	0.49	ug/L			06/11/21 14:31	1
Methyl acetate	<1.7		10	1.7	ug/L			06/11/21 14:31	1
Methyl tert-butyl ether	<0.47		1.0	0.47	ug/L			06/11/21 14:31	1
Methylcyclohexane	<0.33		1.0	0.33	ug/L			06/11/21 14:31	1
Methylene Chloride	<2.6		5.0	2.6	ug/L			06/11/21 14:31	1
Styrene	<0.45		1.0	0.45	ug/L			06/11/21 14:31	1
Tetrachloroethene	<0.44		1.0	0.44	ug/L			06/11/21 14:31	1
Toluene	**0.62**	**J**	1.0	0.44	ug/L			06/11/21 14:31	1
trans-1,2-Dichloroethene	<0.51		1.0	0.51	ug/L			06/11/21 14:31	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			06/11/21 14:31	1
Trichloroethene	**7.9**		1.0	0.44	ug/L			06/11/21 14:31	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			06/11/21 14:31	1
Vinyl chloride	<0.45		1.0	0.45	ug/L			06/11/21 14:31	1
Xylenes, Total	**3.6**		2.0	0.42	ug/L			06/11/21 14:31	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-1_GW 1

Date Collected: 06/07/21 16:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-14

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		69 - 122		06/11/21 14:31	1
Dibromofluoromethane (Surr)	87		78 - 129		06/11/21 14:31	1
4-Bromofluorobenzene (Surr)	85		47 - 134		06/11/21 14:31	1
1,2-Dichloroethane-d4 (Surr)	82		75 - 130		06/11/21 14:31	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: TB-0628

Date Collected: 06/08/21 00:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.48		1.0	0.48	ug/L			06/11/21 14:54	1
1,1,2,2-Tetrachloroethane	<0.60		1.0	0.60	ug/L			06/11/21 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.41		1.0	0.41	ug/L			06/11/21 14:54	1
1,1,2-Trichloroethane	<0.48		1.0	0.48	ug/L			06/11/21 14:54	1
1,1-Dichloroethane	<0.47		1.0	0.47	ug/L			06/11/21 14:54	1
1,1-Dichloroethene	<0.49		1.0	0.49	ug/L			06/11/21 14:54	1
1,2,4-Trichlorobenzene	<0.77		1.0	0.77	ug/L			06/11/21 14:54	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			06/11/21 14:54	1
Ethylene Dibromide	<0.41		1.0	0.41	ug/L			06/11/21 14:54	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L			06/11/21 14:54	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			06/11/21 14:54	1
1,2-Dichloropropane	<0.47		1.0	0.47	ug/L			06/11/21 14:54	1
1,3-Dichlorobenzene	<0.45		1.0	0.45	ug/L			06/11/21 14:54	1
1,4-Dichlorobenzene	<0.41		1.0	0.41	ug/L			06/11/21 14:54	1
2-Butanone (MEK)	<1.2		10	1.2	ug/L			06/11/21 14:54	1
2-Hexanone	<1.1		10	1.1	ug/L			06/11/21 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.99		10	0.99	ug/L			06/11/21 14:54	1
Acetone	<5.4		10	5.4	ug/L			06/11/21 14:54	1
Benzene	<0.42		1.0	0.42	ug/L			06/11/21 14:54	1
Dichlorobromomethane	<0.17		1.0	0.17	ug/L			06/11/21 14:54	1
Bromoform	<0.76		1.0	0.76	ug/L			06/11/21 14:54	1
Bromomethane	<0.42		1.0	0.42	ug/L			06/11/21 14:54	1
Carbon disulfide	<0.59		1.0	0.59	ug/L			06/11/21 14:54	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			06/11/21 14:54	1
Chlorobenzene	<0.38		1.0	0.38	ug/L			06/11/21 14:54	1
Chloroethane	<0.83		1.0	0.83	ug/L			06/11/21 14:54	1
Chloroform	<0.47		1.0	0.47	ug/L			06/11/21 14:54	1
Chloromethane	<0.63		1.0	0.63	ug/L			06/11/21 14:54	1
cis-1,2-Dichloroethene	<0.46		1.0	0.46	ug/L			06/11/21 14:54	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			06/11/21 14:54	1
Cyclohexane	<0.48		1.0	0.48	ug/L			06/11/21 14:54	1
Chlorodibromomethane	<0.39		1.0	0.39	ug/L			06/11/21 14:54	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			06/11/21 14:54	1
Ethylbenzene	<0.42		1.0	0.42	ug/L			06/11/21 14:54	1
Isopropylbenzene	<0.49		1.0	0.49	ug/L			06/11/21 14:54	1
Methyl acetate	<1.7		10	1.7	ug/L			06/11/21 14:54	1
Methyl tert-butyl ether	<0.47		1.0	0.47	ug/L			06/11/21 14:54	1
Methylcyclohexane	<0.33		1.0	0.33	ug/L			06/11/21 14:54	1
Methylene Chloride	<2.6		5.0	2.6	ug/L			06/11/21 14:54	1
Styrene	<0.45		1.0	0.45	ug/L			06/11/21 14:54	1
Tetrachloroethene	<0.44		1.0	0.44	ug/L			06/11/21 14:54	1
Toluene	<0.44		1.0	0.44	ug/L			06/11/21 14:54	1
trans-1,2-Dichloroethene	<0.51		1.0	0.51	ug/L			06/11/21 14:54	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			06/11/21 14:54	1
Trichloroethene	<0.44		1.0	0.44	ug/L			06/11/21 14:54	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			06/11/21 14:54	1
Vinyl chloride	<0.45		1.0	0.45	ug/L			06/11/21 14:54	1
Xylenes, Total	<0.42		2.0	0.42	ug/L			06/11/21 14:54	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: TB-0628

Date Collected: 06/08/21 00:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-15

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		69 - 122		06/11/21 14:54	1
Dibromofluoromethane (Surr)	91		78 - 129		06/11/21 14:54	1
4-Bromofluorobenzene (Surr)	88		47 - 134		06/11/21 14:54	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 130		06/11/21 14:54	1

Surrogate Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(64-124)	(56-122)	(51-127)	(59-120)
240-150940-1	B-1_4-6	103	84	110	64
240-150940-2	B-2_12.5-15	94	84	95	64
240-150940-3	B-3_17.5-20	105	86	179 S1+ *3	67
240-150940-4	B-4_10-12.5	90	97	95	88
240-150940-4 MS	B-4_10-12.5	93	93	92	80
240-150940-4 MSD	B-4_10-12.5	94	96	92	81
240-150940-5	B-5_0-2.5	96	80	110	65
240-150940-6	B-6_10-12.5	94	86	95	66
240-150940-7	B-7_12.5-15	93	84	93	65
240-150940-8	B-8_12.5-15	93	83	97	64
240-150940-9	B-9_0-2.5	115	88	122 *3	69
240-150940-10	B-10_12.5-15	96	85	98	66
240-150940-10 MS	B-10_12.5-15	96	86	97	64
240-150940-10 MSD	B-10_12.5-15	97	85	100	65
240-150940-11	B-10-12.5-15 DUP	96	84	102	63
240-150940-11	B-10-12.5-15 DUP	93	103	92	88
240-150940-12	B-11_2.5-5	94	100	96	88
240-150940-12 MS	B-11_2.5-5	99	96	100	79
240-150940-12 MSD	B-11_2.5-5	96	95	98	79
240-150940-13	B-12_10-12.5	95	103	98	91
LCS 240-489935/5	Lab Control Sample	92	85	92	63
LCS 240-490034/4	Lab Control Sample	92	95	87	78
LCS 240-490151/4	Lab Control Sample	89	92	87	75
MB 240-489935/6	Method Blank	91	85	91	66
MB 240-490034/5	Method Blank	93	102	92	87
MB 240-490151/5	Method Blank	89	97	89	84

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(69-122)	(78-129)	(47-134)	(75-130)
240-150940-14	B-1_GW 1	90	87	85	82
240-150940-15	TB-0628	92	91	88	88
LCS 240-490214/6	Lab Control Sample	87	87	86	79
MB 240-490214/10	Method Blank	88	88	83	82

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: EnviroScience Inc
Job ID: 240-150940-1
Project/Site: Middle Branch Phase II

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TPHL (39-120)	PHL (28-120)	NBZ (28-120)	2FP (26-120)	FBP (35-120)	TBP (10-120)
240-150940-1	B-1_4-6	98	72	58	68	72	64
240-150940-2	B-2_12.5-15	104	74	76	64	81	57
240-150940-2 MS	B-2_12.5-15	103	80	82	70	86	66
240-150940-2 MSD	B-2_12.5-15	101	84	79	69	84	67
240-150940-3	B-3_17.5-20	131 S1+	99	102	91	107	88
240-150940-4	B-4_10-12.5	99	79	64	69	74	85
240-150940-5	B-5_0-2.5	104	89	79	75	93	69
240-150940-6	B-6_10-12.5	94	74	66	68	77	70
240-150940-7	B-7_12.5-15	95	79	64	68	76	70
240-150940-8	B-8_12.5-15	87	61	53	57	63	77
240-150940-9	B-9_0-2.5	77	76	60	69	71	64
240-150940-10	B-10_12.5-15	104	67	60	59	72	63
240-150940-11	B-10-12.5-15 DUP	100	74	64	64	83	62
240-150940-12	B-11_2.5-5	95	67	57	61	77	52
240-150940-13	B-12_10-12.5	91	74	62	66	75	74
LCS 240-489974/24-A	Lab Control Sample	119	99	98	97	95	95
MB 240-489974/23-A	Method Blank	110	78	68	71	77	45

Surrogate Legend

TPHL = Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (14-128)	DCBP2 (10-132)
240-150940-1	B-1_4-6	59	67
240-150940-2	B-2_12.5-15	62	70
240-150940-3	B-3_17.5-20	52	41
240-150940-4	B-4_10-12.5	59	55
240-150940-5	B-5_0-2.5	50	73
240-150940-6	B-6_10-12.5	62	63
240-150940-7	B-7_12.5-15	58	58
240-150940-8	B-8_12.5-15	60	68
240-150940-9	B-9_0-2.5	59	51
240-150940-10	B-10_12.5-15	54	52
240-150940-11	B-10-12.5-15 DUP	63	63
240-150940-12	B-11_2.5-5	43	58
240-150940-13	B-12_10-12.5	56	62
LCS 240-489982/23-A	Lab Control Sample	70	74
MB 240-489982/22-A	Method Blank	66	74

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 240-489935/6
Matrix: Solid
Analysis Batch: 489935

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-Trichloroethane	<1.8		5.0	1.8	ug/Kg			06/10/21 08:55	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			06/10/21 08:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			06/10/21 08:55	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			06/10/21 08:55	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			06/10/21 08:55	1
1,1-Dichloroethene	<1.8		5.0	1.8	ug/Kg			06/10/21 08:55	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			06/10/21 08:55	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			06/10/21 08:55	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			06/10/21 08:55	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			06/10/21 08:55	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			06/10/21 08:55	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			06/10/21 08:55	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			06/10/21 08:55	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			06/10/21 08:55	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			06/10/21 08:55	1
2-Hexanone	<4.1		20	4.1	ug/Kg			06/10/21 08:55	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			06/10/21 08:55	1
Acetone	<21		25	21	ug/Kg			06/10/21 08:55	1
Benzene	<0.70		5.0	0.70	ug/Kg			06/10/21 08:55	1
Dichlorobromomethane	<1.5		5.0	1.5	ug/Kg			06/10/21 08:55	1
Bromoform	<2.4		5.0	2.4	ug/Kg			06/10/21 08:55	1
Bromomethane	<4.2		5.0	4.2	ug/Kg			06/10/21 08:55	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			06/10/21 08:55	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			06/10/21 08:55	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			06/10/21 08:55	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			06/10/21 08:55	1
Chloroform	<0.79		5.0	0.79	ug/Kg			06/10/21 08:55	1
Chloromethane	<2.3		5.0	2.3	ug/Kg			06/10/21 08:55	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			06/10/21 08:55	1
cis-1,3-Dichloropropene	<2.9		5.0	2.9	ug/Kg			06/10/21 08:55	1
Cyclohexane	<1.4		10	1.4	ug/Kg			06/10/21 08:55	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			06/10/21 08:55	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			06/10/21 08:55	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			06/10/21 08:55	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			06/10/21 08:55	1
Methyl acetate	<3.4		25	3.4	ug/Kg			06/10/21 08:55	1
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/Kg			06/10/21 08:55	1
Methylcyclohexane	<1.2		10	1.2	ug/Kg			06/10/21 08:55	1
Methylene Chloride	<12		25	12	ug/Kg			06/10/21 08:55	1
Styrene	<1.2		5.0	1.2	ug/Kg			06/10/21 08:55	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			06/10/21 08:55	1
Toluene	<0.77		5.0	0.77	ug/Kg			06/10/21 08:55	1
trans-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			06/10/21 08:55	1
trans-1,3-Dichloropropene	<3.7		5.0	3.7	ug/Kg			06/10/21 08:55	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			06/10/21 08:55	1
Trichlorofluoromethane	<2.7		5.0	2.7	ug/Kg			06/10/21 08:55	1
Vinyl chloride	<1.8		5.0	1.8	ug/Kg			06/10/21 08:55	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			06/10/21 08:55	1

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

Lab Sample ID: MB 240-489935/6
Matrix: Solid
Analysis Batch: 489935

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		64 - 124		06/10/21 08:55	1
Dibromofluoromethane (Surr)	85		56 - 122		06/10/21 08:55	1
4-Bromofluorobenzene (Surr)	91		51 - 127		06/10/21 08:55	1
1,2-Dichloroethane-d4 (Surr)	66		59 - 120		06/10/21 08:55	1

Lab Sample ID: LCS 240-489935/5
Matrix: Solid
Analysis Batch: 489935

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-Trichloroethane	50.0	40.6		ug/Kg		81	60 - 126
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	61 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.0		ug/Kg		86	58 - 144
1,1,2-Trichloroethane	50.0	48.5		ug/Kg		97	78 - 120
1,1-Dichloroethane	50.0	41.9		ug/Kg		84	69 - 120
1,1-Dichloroethene	50.0	44.1		ug/Kg		88	48 - 140
1,2,4-Trichlorobenzene	50.0	50.8		ug/Kg		102	56 - 120
1,2-Dibromo-3-Chloropropane	50.0	55.9		ug/Kg		112	35 - 137
Ethylene Dibromide	50.0	48.7		ug/Kg		97	73 - 126
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	74 - 120
1,2-Dichloroethane	50.0	35.6		ug/Kg		71	66 - 120
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	77 - 120
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	74 - 120
1,4-Dichlorobenzene	50.0	50.5		ug/Kg		101	74 - 120
2-Butanone (MEK)	100	85.8		ug/Kg		86	61 - 131
2-Hexanone	100	87.7		ug/Kg		88	54 - 135
4-Methyl-2-pentanone (MIBK)	100	82.9		ug/Kg		83	56 - 124
Acetone	100	83.3		ug/Kg		83	47 - 157
Benzene	50.0	47.7		ug/Kg		95	75 - 120
Dichlorobromomethane	50.0	45.7		ug/Kg		91	63 - 121
Bromoform	50.0	53.0		ug/Kg		106	44 - 131
Bromomethane	20.0	12.0		ug/Kg		60	10 - 158
Carbon disulfide	50.0	42.0		ug/Kg		84	33 - 144
Carbon tetrachloride	50.0	41.8		ug/Kg		84	54 - 130
Chlorobenzene	50.0	49.7		ug/Kg		99	79 - 120
Chloroethane	20.0	11.8		ug/Kg		59	10 - 159
Chloroform	50.0	41.6		ug/Kg		83	74 - 120
Chloromethane	20.0	10.8		ug/Kg		54	40 - 127
cis-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	76 - 120
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	62 - 124
Cyclohexane	50.0	42.4		ug/Kg		85	57 - 126
Chlorodibromomethane	50.0	49.1		ug/Kg		98	60 - 121
Dichlorodifluoromethane	20.0	10.4		ug/Kg		52	18 - 137
Ethylbenzene	50.0	51.2		ug/Kg		102	75 - 120
Isopropylbenzene	50.0	52.1		ug/Kg		104	74 - 120
Methyl acetate	100	75.0		ug/Kg		75	63 - 120
Methyl tert-butyl ether	50.0	42.3		ug/Kg		85	66 - 120
Methylcyclohexane	50.0	51.7		ug/Kg		103	62 - 124

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

Lab Sample ID: LCS 240-489935/5
Matrix: Solid
Analysis Batch: 489935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	47.4		ug/Kg		95	48 - 142
Styrene	50.0	57.1		ug/Kg		114	70 - 120
Tetrachloroethene	50.0	48.3		ug/Kg		97	75 - 124
Toluene	50.0	47.4		ug/Kg		95	76 - 120
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	74 - 125
trans-1,3-Dichloropropene	50.0	40.2		ug/Kg		80	58 - 120
Trichloroethene	50.0	51.3		ug/Kg		103	75 - 123
Trichlorofluoromethane	20.0	15.1		ug/Kg		76	33 - 152
Vinyl chloride	20.0	14.4		ug/Kg		72	39 - 140
Xylenes, Total	100	104		ug/Kg		104	77 - 120
m-Xylene & p-Xylene	50.0	51.6		ug/Kg		103	76 - 120
o-Xylene	50.0	52.7		ug/Kg		105	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*64 - 124*
Dibromofluoromethane (Surr)	*85*		*56 - 122*
4-Bromofluorobenzene (Surr)	*92*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*63*		*59 - 120*

Lab Sample ID: 240-150940-10 MS
Matrix: Solid
Analysis Batch: 489935

Client Sample ID: B-10_12.5-15
Prep Type: Total/NA
Prep Batch: 489990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<2.0		56.8	41.2		ug/Kg	☼	73	27 - 131
1,1,2,2-Tetrachloroethane	<1.6		56.8	47.3		ug/Kg	☼	83	10 - 168
1,1,2-Trichloro-1,2,2-trifluoroetha ne	<1.4		56.8	39.9		ug/Kg	☼	70	30 - 145
1,1,2-Trichloroethane	<1.3		56.8	49.6		ug/Kg	☼	87	17 - 152
1,1-Dichloroethane	<0.78		56.8	42.8		ug/Kg	☼	75	35 - 129
1,1-Dichloroethene	<2.1		56.8	43.8		ug/Kg	☼	77	20 - 150
1,2,4-Trichlorobenzene	<2.8		56.8	23.8		ug/Kg	☼	42	10 - 120
1,2-Dibromo-3-Chloropropane	<4.1		56.8	52.3		ug/Kg	☼	92	10 - 135
Ethylene Dibromide	<0.87		56.8	45.5		ug/Kg	☼	80	24 - 138
1,2-Dichlorobenzene	<1.3		56.8	35.6		ug/Kg	☼	63	10 - 131
1,2-Dichloroethane	<0.87		56.8	36.1		ug/Kg	☼	64	33 - 130
1,2-Dichloropropane	<0.96		56.8	47.3		ug/Kg	☼	83	33 - 134
1,3-Dichlorobenzene	<0.92		56.8	36.5		ug/Kg	☼	64	10 - 131
1,4-Dichlorobenzene	<1.0		56.8	35.1		ug/Kg	☼	62	10 - 129
2-Butanone (MEK)	<4.0		114	94.4		ug/Kg	☼	83	31 - 148
2-Hexanone	<4.6		114	96.1		ug/Kg	☼	85	23 - 149
4-Methyl-2-pentanone (MIBK)	<4.2		114	94.3		ug/Kg	☼	83	29 - 140
Acetone	<24		114	106		ug/Kg	☼	93	18 - 167
Benzene	<0.79		56.8	45.4		ug/Kg	☼	80	32 - 131
Dichlorobromomethane	<1.7		56.8	45.2		ug/Kg	☼	80	18 - 125
Bromoform	<2.7		56.8	50.4		ug/Kg	☼	89	10 - 122
Bromomethane	<4.7		22.7	12.2		ug/Kg	☼	54	10 - 149
Carbon disulfide	<1.3		56.8	37.5		ug/Kg	☼	66	10 - 134
Carbon tetrachloride	<3.7		56.8	40.6		ug/Kg	☼	72	13 - 131

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

Lab Sample ID: 240-150940-10 MS
Matrix: Solid
Analysis Batch: 489935

Client Sample ID: B-10_12.5-15
Prep Type: Total/NA
Prep Batch: 489990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	<1.0		56.8	40.6		ug/Kg	☼	72	16 - 129
Chloroethane	<3.1		22.7	12.0		ug/Kg	☼	53	10 - 155
Chloroform	<0.89		56.8	41.8		ug/Kg	☼	74	38 - 129
Chloromethane	<2.6		22.7	12.2		ug/Kg	☼	54	20 - 140
cis-1,2-Dichloroethene	<1.7		56.8	45.9		ug/Kg	☼	81	35 - 130
cis-1,3-Dichloropropene	<3.3		56.8	45.7		ug/Kg	☼	81	12 - 131
Cyclohexane	<1.6		56.8	39.0		ug/Kg	☼	69	17 - 133
Chlorodibromomethane	<3.1		56.8	47.2		ug/Kg	☼	83	15 - 125
Dichlorodifluoromethane	<1.1		22.7	10.7		ug/Kg	☼	47	10 - 141
Ethylbenzene	<1.2		56.8	44.5		ug/Kg	☼	78	12 - 133
Isopropylbenzene	<2.2		56.8	44.9		ug/Kg	☼	79	10 - 135
Methyl acetate	<3.8		114	70.8		ug/Kg	☼	62	20 - 155
Methyl tert-butyl ether	<2.2		56.8	45.0		ug/Kg	☼	79	42 - 127
Methylcyclohexane	<1.4		56.8	43.3		ug/Kg	☼	76	10 - 133
Methylene Chloride	63		56.8	122		ug/Kg	☼	104	22 - 153
Styrene	<1.3		56.8	43.7		ug/Kg	☼	77	10 - 127
Tetrachloroethene	<0.83		56.8	40.1		ug/Kg	☼	71	13 - 144
Toluene	<0.87		56.8	43.0		ug/Kg	☼	76	20 - 141
trans-1,2-Dichloroethene	<1.6		56.8	42.9		ug/Kg	☼	76	31 - 138
trans-1,3-Dichloropropene	<4.2		56.8	33.9		ug/Kg	☼	60	10 - 123
Trichloroethene	0.86	J	56.8	53.1		ug/Kg	☼	92	10 - 162
Trichlorofluoromethane	<3.0		22.7	16.0		ug/Kg	☼	70	16 - 148
Vinyl chloride	<2.0		22.7	14.9		ug/Kg	☼	65	15 - 150
Xylenes, Total	<1.8		114	94.6		ug/Kg	☼	83	10 - 134
m-Xylene & p-Xylene	0.93	J	56.8	45.4		ug/Kg	☼	78	10 - 132
o-Xylene	<0.97		56.8	49.2		ug/Kg	☼	87	11 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*64 - 124*
Dibromofluoromethane (Surr)	*86*		*56 - 122*
4-Bromofluorobenzene (Surr)	*97*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*64*		*59 - 120*

Lab Sample ID: 240-150940-10 MSD
Matrix: Solid
Analysis Batch: 489935

Client Sample ID: B-10_12.5-15
Prep Type: Total/NA
Prep Batch: 489990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<2.0		55.5	41.0		ug/Kg	☼	74	27 - 131	0	40
1,1,2,2-Tetrachloroethane	<1.6		55.5	56.5		ug/Kg	☼	102	10 - 168	18	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.4		55.5	38.8		ug/Kg	☼	70	30 - 145	3	40
1,1,2-Trichloroethane	<1.3		55.5	50.9		ug/Kg	☼	92	17 - 152	3	40
1,1-Dichloroethane	<0.78		55.5	43.3		ug/Kg	☼	78	35 - 129	1	40
1,1-Dichloroethene	<2.1		55.5	42.4		ug/Kg	☼	76	20 - 150	3	40
1,2,4-Trichlorobenzene	<2.8		55.5	22.9		ug/Kg	☼	41	10 - 120	4	40
1,2-Dibromo-3-Chloropropane	<4.1		55.5	54.6		ug/Kg	☼	98	10 - 135	4	40
Ethylene Dibromide	<0.87		55.5	47.8		ug/Kg	☼	86	24 - 138	5	40
1,2-Dichlorobenzene	<1.3		55.5	35.7		ug/Kg	☼	64	10 - 131	0	40

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

Lab Sample ID: 240-150940-10 MSD
Matrix: Solid
Analysis Batch: 489935

Client Sample ID: B-10_12.5-15
Prep Type: Total/NA
Prep Batch: 489990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	<0.87		55.5	37.2		ug/Kg	☼	67	33 - 130	3	40
1,2-Dichloropropane	<0.96		55.5	48.1		ug/Kg	☼	87	33 - 134	2	40
1,3-Dichlorobenzene	<0.92		55.5	36.7		ug/Kg	☼	66	10 - 131	1	40
1,4-Dichlorobenzene	<1.0		55.5	35.2		ug/Kg	☼	63	10 - 129	0	40
2-Butanone (MEK)	<4.0		111	97.8		ug/Kg	☼	88	31 - 148	4	40
2-Hexanone	<4.6		111	98.3		ug/Kg	☼	88	23 - 149	2	40
4-Methyl-2-pentanone (MIBK)	<4.2		111	96.4		ug/Kg	☼	87	29 - 140	2	40
Acetone	<24		111	107		ug/Kg	☼	96	18 - 167	1	40
Benzene	<0.79		55.5	45.3		ug/Kg	☼	81	32 - 131	0	40
Dichlorobromomethane	<1.7		55.5	46.0		ug/Kg	☼	83	18 - 125	2	40
Bromoform	<2.7		55.5	51.0		ug/Kg	☼	92	10 - 122	1	40
Bromomethane	<4.7		22.2	11.5		ug/Kg	☼	52	10 - 149	5	40
Carbon disulfide	<1.3		55.5	37.4		ug/Kg	☼	67	10 - 134	0	40
Carbon tetrachloride	<3.7		55.5	40.8		ug/Kg	☼	73	13 - 131	0	40
Chlorobenzene	<1.0		55.5	40.5		ug/Kg	☼	73	16 - 129	0	40
Chloroethane	<3.1		22.2	11.9		ug/Kg	☼	53	10 - 155	1	40
Chloroform	<0.89		55.5	42.3		ug/Kg	☼	76	38 - 129	1	40
Chloromethane	<2.6		22.2	11.9		ug/Kg	☼	53	20 - 140	2	40
cis-1,2-Dichloroethene	<1.7		55.5	46.9		ug/Kg	☼	84	35 - 130	2	40
cis-1,3-Dichloropropene	<3.3		55.5	47.4		ug/Kg	☼	85	12 - 131	4	40
Cyclohexane	<1.6		55.5	37.8		ug/Kg	☼	68	17 - 133	3	40
Chlorodibromomethane	<3.1		55.5	49.3		ug/Kg	☼	89	15 - 125	4	40
Dichlorodifluoromethane	<1.1		22.2	10.5		ug/Kg	☼	47	10 - 141	1	40
Ethylbenzene	<1.2		55.5	44.8		ug/Kg	☼	81	12 - 133	1	40
Isopropylbenzene	<2.2		55.5	44.8		ug/Kg	☼	81	10 - 135	0	40
Methyl acetate	<3.8		111	79.7		ug/Kg	☼	72	20 - 155	12	40
Methyl tert-butyl ether	<2.2		55.5	46.4		ug/Kg	☼	84	42 - 127	3	40
Methylcyclohexane	<1.4		55.5	42.5		ug/Kg	☼	77	10 - 133	2	40
Methylene Chloride	63		55.5	109		ug/Kg	☼	84	22 - 153	19	40
Styrene	<1.3		55.5	42.8		ug/Kg	☼	77	10 - 127	2	40
Tetrachloroethene	<0.83		55.5	40.7		ug/Kg	☼	73	13 - 144	2	40
Toluene	<0.87		55.5	43.2		ug/Kg	☼	78	20 - 141	0	40
trans-1,2-Dichloroethene	<1.6		55.5	43.5		ug/Kg	☼	78	31 - 138	1	40
trans-1,3-Dichloropropene	<4.2		55.5	36.2		ug/Kg	☼	65	10 - 123	6	40
Trichloroethene	0.86	J	55.5	48.2		ug/Kg	☼	85	10 - 162	10	40
Trichlorofluoromethane	<3.0		22.2	15.2		ug/Kg	☼	68	16 - 148	5	40
Vinyl chloride	<2.0		22.2	14.6		ug/Kg	☼	66	15 - 150	2	40
Xylenes, Total	<1.8		111	94.0		ug/Kg	☼	85	10 - 134	1	40
m-Xylene & p-Xylene	0.93	J	55.5	45.3		ug/Kg	☼	80	10 - 132	0	40
o-Xylene	<0.97		55.5	48.7		ug/Kg	☼	88	11 - 134	1	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*64 - 124*
Dibromofluoromethane (Surr)	*85*		*56 - 122*
4-Bromofluorobenzene (Surr)	*100*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*65*		*59 - 120*

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

Lab Sample ID: MB 240-490034/5
Matrix: Solid
Analysis Batch: 490034

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-Trichloroethane	<1.8		5.0	1.8	ug/Kg			06/10/21 14:05	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			06/10/21 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			06/10/21 14:05	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			06/10/21 14:05	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			06/10/21 14:05	1
1,1-Dichloroethene	<1.8		5.0	1.8	ug/Kg			06/10/21 14:05	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			06/10/21 14:05	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			06/10/21 14:05	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			06/10/21 14:05	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			06/10/21 14:05	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			06/10/21 14:05	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			06/10/21 14:05	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			06/10/21 14:05	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			06/10/21 14:05	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			06/10/21 14:05	1
2-Hexanone	<4.1		20	4.1	ug/Kg			06/10/21 14:05	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			06/10/21 14:05	1
Acetone	<21		25	21	ug/Kg			06/10/21 14:05	1
Benzene	<0.70		5.0	0.70	ug/Kg			06/10/21 14:05	1
Dichlorobromomethane	<1.5		5.0	1.5	ug/Kg			06/10/21 14:05	1
Bromoform	<2.4		5.0	2.4	ug/Kg			06/10/21 14:05	1
Bromomethane	<4.2		5.0	4.2	ug/Kg			06/10/21 14:05	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			06/10/21 14:05	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			06/10/21 14:05	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			06/10/21 14:05	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			06/10/21 14:05	1
Chloroform	<0.79		5.0	0.79	ug/Kg			06/10/21 14:05	1
Chloromethane	<2.3		5.0	2.3	ug/Kg			06/10/21 14:05	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			06/10/21 14:05	1
cis-1,3-Dichloropropene	<2.9		5.0	2.9	ug/Kg			06/10/21 14:05	1
Cyclohexane	<1.4		10	1.4	ug/Kg			06/10/21 14:05	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			06/10/21 14:05	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			06/10/21 14:05	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			06/10/21 14:05	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			06/10/21 14:05	1
Methyl acetate	<3.4		25	3.4	ug/Kg			06/10/21 14:05	1
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/Kg			06/10/21 14:05	1
Methylcyclohexane	<1.2		10	1.2	ug/Kg			06/10/21 14:05	1
Methylene Chloride	<12		25	12	ug/Kg			06/10/21 14:05	1
Styrene	<1.2		5.0	1.2	ug/Kg			06/10/21 14:05	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			06/10/21 14:05	1
Toluene	<0.77		5.0	0.77	ug/Kg			06/10/21 14:05	1
trans-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			06/10/21 14:05	1
trans-1,3-Dichloropropene	<3.7		5.0	3.7	ug/Kg			06/10/21 14:05	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			06/10/21 14:05	1
Trichlorofluoromethane	<2.7		5.0	2.7	ug/Kg			06/10/21 14:05	1
Vinyl chloride	<1.8		5.0	1.8	ug/Kg			06/10/21 14:05	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			06/10/21 14:05	1

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

Lab Sample ID: MB 240-490034/5
Matrix: Solid
Analysis Batch: 490034

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		64 - 124		06/10/21 14:05	1
Dibromofluoromethane (Surr)	102		56 - 122		06/10/21 14:05	1
4-Bromofluorobenzene (Surr)	92		51 - 127		06/10/21 14:05	1
1,2-Dichloroethane-d4 (Surr)	87		59 - 120		06/10/21 14:05	1

Lab Sample ID: LCS 240-490034/4
Matrix: Solid
Analysis Batch: 490034

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-Trichloroethane	50.0	46.5		ug/Kg		93	60 - 126
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	61 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.7		ug/Kg		91	58 - 144
1,1,2-Trichloroethane	50.0	48.8		ug/Kg		98	78 - 120
1,1-Dichloroethane	50.0	44.7		ug/Kg		89	69 - 120
1,1-Dichloroethene	50.0	46.9		ug/Kg		94	48 - 140
1,2,4-Trichlorobenzene	50.0	48.2		ug/Kg		96	56 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/Kg		95	35 - 137
Ethylene Dibromide	50.0	52.0		ug/Kg		104	73 - 126
1,2-Dichlorobenzene	50.0	48.8		ug/Kg		98	74 - 120
1,2-Dichloroethane	50.0	41.9		ug/Kg		84	66 - 120
1,2-Dichloropropane	50.0	46.2		ug/Kg		92	77 - 120
1,3-Dichlorobenzene	50.0	49.7		ug/Kg		99	74 - 120
1,4-Dichlorobenzene	50.0	50.0		ug/Kg		100	74 - 120
2-Butanone (MEK)	100	83.9		ug/Kg		84	61 - 131
2-Hexanone	100	94.7		ug/Kg		95	54 - 135
4-Methyl-2-pentanone (MIBK)	100	97.9		ug/Kg		98	56 - 124
Acetone	100	87.1		ug/Kg		87	47 - 157
Benzene	50.0	46.8		ug/Kg		94	75 - 120
Dichlorobromomethane	50.0	51.3		ug/Kg		103	63 - 121
Bromoform	50.0	45.6		ug/Kg		91	44 - 131
Bromomethane	50.0	49.0		ug/Kg		98	10 - 158
Carbon disulfide	50.0	43.2		ug/Kg		86	33 - 144
Carbon tetrachloride	50.0	46.4		ug/Kg		93	54 - 130
Chlorobenzene	50.0	49.7		ug/Kg		99	79 - 120
Chloroethane	50.0	130	*+	ug/Kg		260	10 - 159
Chloroform	50.0	46.1		ug/Kg		92	74 - 120
Chloromethane	50.0	39.4		ug/Kg		79	40 - 127
cis-1,2-Dichloroethene	50.0	44.6		ug/Kg		89	76 - 120
cis-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	62 - 124
Cyclohexane	50.0	42.0		ug/Kg		84	57 - 126
Chlorodibromomethane	50.0	46.1		ug/Kg		92	60 - 121
Dichlorodifluoromethane	50.0	34.9		ug/Kg		70	18 - 137
Ethylbenzene	50.0	50.7		ug/Kg		101	75 - 120
Isopropylbenzene	50.0	51.4		ug/Kg		103	74 - 120
Methyl acetate	100	77.0		ug/Kg		77	63 - 120
Methyl tert-butyl ether	50.0	42.6		ug/Kg		85	66 - 120
Methylcyclohexane	50.0	47.6		ug/Kg		95	62 - 124

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

Lab Sample ID: LCS 240-490034/4
Matrix: Solid
Analysis Batch: 490034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	43.6		ug/Kg		87	48 - 142
Styrene	50.0	55.3		ug/Kg		111	70 - 120
Tetrachloroethene	50.0	47.9		ug/Kg		96	75 - 124
Toluene	50.0	48.5		ug/Kg		97	76 - 120
trans-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	74 - 125
trans-1,3-Dichloropropene	50.0	44.5		ug/Kg		89	58 - 120
Trichloroethene	50.0	47.0		ug/Kg		94	75 - 123
Trichlorofluoromethane	50.0	50.0		ug/Kg		100	33 - 152
Vinyl chloride	50.0	50.4		ug/Kg		101	39 - 140
Xylenes, Total	100	102		ug/Kg		102	77 - 120
m-Xylene & p-Xylene	50.0	50.8		ug/Kg		102	76 - 120
o-Xylene	50.0	51.2		ug/Kg		102	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*64 - 124*
Dibromofluoromethane (Surr)	*95*		*56 - 122*
4-Bromofluorobenzene (Surr)	*87*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*78*		*59 - 120*

Lab Sample ID: 240-150940-12 MS
Matrix: Solid
Analysis Batch: 490034

Client Sample ID: B-11_2.5-5
Prep Type: Total/NA
Prep Batch: 490118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<2.0		54.2	55.6		ug/Kg	☼	103	27 - 131
1,1,2,2-Tetrachloroethane	<1.6		54.2	62.6		ug/Kg	☼	116	10 - 168
1,1,2-Trichloro-1,2,2-trifluoroetha ne	<1.5		54.2	69.7		ug/Kg	☼	129	30 - 145
1,1,2-Trichloroethane	<1.3		54.2	53.8		ug/Kg	☼	99	17 - 152
1,1-Dichloroethane	<0.79		54.2	55.4		ug/Kg	☼	102	35 - 129
1,1-Dichloroethene	<2.1		54.2	67.8		ug/Kg	☼	125	20 - 150
1,2,4-Trichlorobenzene	<2.8		54.2	20.4		ug/Kg	☼	38	10 - 120
1,2-Dibromo-3-Chloropropane	<4.1		54.2	48.2		ug/Kg	☼	89	10 - 135
Ethylene Dibromide	<0.87		54.2	51.6		ug/Kg	☼	95	24 - 138
1,2-Dichlorobenzene	<1.3		54.2	30.8		ug/Kg	☼	57	10 - 131
1,2-Dichloroethane	<0.87		54.2	45.8		ug/Kg	☼	85	33 - 130
1,2-Dichloropropane	<0.96		54.2	50.5		ug/Kg	☼	93	33 - 134
1,3-Dichlorobenzene	<0.92		54.2	28.9		ug/Kg	☼	53	10 - 131
1,4-Dichlorobenzene	<1.0		54.2	27.0		ug/Kg	☼	50	10 - 129
2-Butanone (MEK)	<4.0		108	96.8		ug/Kg	☼	89	31 - 148
2-Hexanone	<4.6		108	102		ug/Kg	☼	94	23 - 149
4-Methyl-2-pentanone (MIBK)	<4.2		108	112		ug/Kg	☼	103	29 - 140
Acetone	<24		108	109		ug/Kg	☼	101	18 - 167
Benzene	1.1	J	54.2	53.6		ug/Kg	☼	97	32 - 131
Dichlorobromomethane	<1.7		54.2	51.9		ug/Kg	☼	96	18 - 125
Bromoform	<2.7		54.2	42.0		ug/Kg	☼	78	10 - 122
Bromomethane	<4.7		54.2	55.1		ug/Kg	☼	102	10 - 149
Carbon disulfide	<1.3		54.2	64.8		ug/Kg	☼	120	10 - 134
Carbon tetrachloride	<3.7		54.2	54.9		ug/Kg	☼	101	13 - 131

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

Lab Sample ID: 240-150940-12 MS
Matrix: Solid
Analysis Batch: 490034

Client Sample ID: B-11_2.5-5
Prep Type: Total/NA
Prep Batch: 490118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	<1.0		54.2	39.7		ug/Kg	☼	73	16 - 129
Chloroethane	<3.1	F1 *+	54.2	167	F1	ug/Kg	☼	308	10 - 155
Chloroform	<0.89		54.2	53.0		ug/Kg	☼	98	38 - 129
Chloromethane	<2.6		54.2	46.1		ug/Kg	☼	85	20 - 140
cis-1,2-Dichloroethene	<1.7		54.2	50.1		ug/Kg	☼	93	35 - 130
cis-1,3-Dichloropropene	<3.3		54.2	46.2		ug/Kg	☼	85	12 - 131
Cyclohexane	<1.6		54.2	56.0		ug/Kg	☼	103	17 - 133
Chlorodibromomethane	<3.2		54.2	46.3		ug/Kg	☼	86	15 - 125
Dichlorodifluoromethane	<1.1		54.2	40.2		ug/Kg	☼	74	10 - 141
Ethylbenzene	<1.2		54.2	42.0		ug/Kg	☼	78	12 - 133
Isopropylbenzene	<2.2		54.2	36.9		ug/Kg	☼	68	10 - 135
Methyl acetate	<3.9		108	88.8		ug/Kg	☼	82	20 - 155
Methyl tert-butyl ether	<2.2		54.2	53.0		ug/Kg	☼	98	42 - 127
Methylcyclohexane	<1.4		54.2	58.9		ug/Kg	☼	109	10 - 133
Methylene Chloride	51		54.2	101		ug/Kg	☼	92	22 - 153
Styrene	<1.3		54.2	36.0		ug/Kg	☼	66	10 - 127
Tetrachloroethene	<0.83		54.2	44.5		ug/Kg	☼	82	13 - 144
Toluene	2.9	J	54.2	51.9		ug/Kg	☼	90	20 - 141
trans-1,2-Dichloroethene	<1.6		54.2	57.8		ug/Kg	☼	107	31 - 138
trans-1,3-Dichloropropene	<4.2		54.2	41.7		ug/Kg	☼	77	10 - 123
Trichloroethene	<0.72		54.2	47.7		ug/Kg	☼	88	10 - 162
Trichlorofluoromethane	<3.0		54.2	57.9		ug/Kg	☼	107	16 - 148
Vinyl chloride	<2.0		54.2	59.5		ug/Kg	☼	110	15 - 150
Xylenes, Total	<1.8		108	81.9		ug/Kg	☼	76	10 - 134
m-Xylene & p-Xylene	1.3	J	54.2	40.6		ug/Kg	☼	73	10 - 132
o-Xylene	<0.98		54.2	41.3		ug/Kg	☼	76	11 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*64 - 124*
Dibromofluoromethane (Surr)	*96*		*56 - 122*
4-Bromofluorobenzene (Surr)	*100*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*79*		*59 - 120*

Lab Sample ID: 240-150940-12 MSD
Matrix: Solid
Analysis Batch: 490034

Client Sample ID: B-11_2.5-5
Prep Type: Total/NA
Prep Batch: 490118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<2.0		55.2	55.2		ug/Kg	☼	100	27 - 131	1	40
1,1,2,2-Tetrachloroethane	<1.6		55.2	58.3		ug/Kg	☼	106	10 - 168	7	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.5		55.2	70.4		ug/Kg	☼	128	30 - 145	1	40
1,1,2-Trichloroethane	<1.3		55.2	51.6		ug/Kg	☼	93	17 - 152	4	40
1,1-Dichloroethane	<0.79		55.2	54.2		ug/Kg	☼	98	35 - 129	2	40
1,1-Dichloroethene	<2.1		55.2	67.6		ug/Kg	☼	122	20 - 150	0	40
1,2,4-Trichlorobenzene	<2.8		55.2	20.0		ug/Kg	☼	36	10 - 120	2	40
1,2-Dibromo-3-Chloropropane	<4.1		55.2	48.2		ug/Kg	☼	87	10 - 135	0	40
Ethylene Dibromide	<0.87		55.2	47.4		ug/Kg	☼	86	24 - 138	9	40
1,2-Dichlorobenzene	<1.3		55.2	27.5		ug/Kg	☼	50	10 - 131	11	40

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

Lab Sample ID: 240-150940-12 MSD
Matrix: Solid
Analysis Batch: 490034

Client Sample ID: B-11_2.5-5
Prep Type: Total/NA
Prep Batch: 490118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	<0.87		55.2	43.6		ug/Kg	☼	79	33 - 130	5	40
1,2-Dichloropropane	<0.96		55.2	48.9		ug/Kg	☼	89	33 - 134	3	40
1,3-Dichlorobenzene	<0.92		55.2	25.7		ug/Kg	☼	47	10 - 131	12	40
1,4-Dichlorobenzene	<1.0		55.2	24.1		ug/Kg	☼	44	10 - 129	11	40
2-Butanone (MEK)	<4.0		110	94.8		ug/Kg	☼	86	31 - 148	2	40
2-Hexanone	<4.6		110	101		ug/Kg	☼	92	23 - 149	1	40
4-Methyl-2-pentanone (MIBK)	<4.2		110	110		ug/Kg	☼	99	29 - 140	2	40
Acetone	<24		110	111		ug/Kg	☼	101	18 - 167	2	40
Benzene	1.1	J	55.2	51.9		ug/Kg	☼	92	32 - 131	3	40
Dichlorobromomethane	<1.7		55.2	50.3		ug/Kg	☼	91	18 - 125	3	40
Bromoform	<2.7		55.2	39.7		ug/Kg	☼	72	10 - 122	6	40
Bromomethane	<4.7		55.2	56.7		ug/Kg	☼	103	10 - 149	3	40
Carbon disulfide	<1.3		55.2	63.9		ug/Kg	☼	116	10 - 134	1	40
Carbon tetrachloride	<3.7		55.2	54.9		ug/Kg	☼	99	13 - 131	0	40
Chlorobenzene	<1.0		55.2	37.1		ug/Kg	☼	67	16 - 129	7	40
Chloroethane	<3.1	F1 *+	55.2	169	F1	ug/Kg	☼	306	10 - 155	1	40
Chloroform	<0.89		55.2	51.7		ug/Kg	☼	94	38 - 129	3	40
Chloromethane	<2.6		55.2	46.8		ug/Kg	☼	85	20 - 140	2	40
cis-1,2-Dichloroethene	<1.7		55.2	48.7		ug/Kg	☼	88	35 - 130	3	40
cis-1,3-Dichloropropene	<3.3		55.2	42.7		ug/Kg	☼	77	12 - 131	8	40
Cyclohexane	<1.6		55.2	55.6		ug/Kg	☼	101	17 - 133	1	40
Chlorodibromomethane	<3.2		55.2	43.9		ug/Kg	☼	80	15 - 125	5	40
Dichlorodifluoromethane	<1.1		55.2	41.3		ug/Kg	☼	75	10 - 141	3	40
Ethylbenzene	<1.2		55.2	38.2		ug/Kg	☼	69	12 - 133	10	40
Isopropylbenzene	<2.2		55.2	33.8		ug/Kg	☼	61	10 - 135	9	40
Methyl acetate	<3.9		110	90.2		ug/Kg	☼	82	20 - 155	2	40
Methyl tert-butyl ether	<2.2		55.2	51.3		ug/Kg	☼	93	42 - 127	3	40
Methylcyclohexane	<1.4		55.2	57.3		ug/Kg	☼	104	10 - 133	3	40
Methylene Chloride	51		55.2	115		ug/Kg	☼	115	22 - 153	13	40
Styrene	<1.3		55.2	33.1		ug/Kg	☼	60	10 - 127	8	40
Tetrachloroethene	<0.83		55.2	41.7		ug/Kg	☼	76	13 - 144	7	40
Toluene	2.9	J	55.2	48.2		ug/Kg	☼	82	20 - 141	7	40
trans-1,2-Dichloroethene	<1.6		55.2	55.9		ug/Kg	☼	101	31 - 138	3	40
trans-1,3-Dichloropropene	<4.2		55.2	37.3		ug/Kg	☼	68	10 - 123	11	40
Trichloroethene	<0.72		55.2	45.1		ug/Kg	☼	82	10 - 162	6	40
Trichlorofluoromethane	<3.0		55.2	59.8		ug/Kg	☼	108	16 - 148	3	40
Vinyl chloride	<2.0		55.2	59.4		ug/Kg	☼	108	15 - 150	0	40
Xylenes, Total	<1.8		110	74.4		ug/Kg	☼	67	10 - 134	10	40
m-Xylene & p-Xylene	1.3	J	55.2	36.8		ug/Kg	☼	64	10 - 132	10	40
o-Xylene	<0.98		55.2	37.6		ug/Kg	☼	68	11 - 134	9	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*64 - 124*
Dibromofluoromethane (Surr)	*95*		*56 - 122*
4-Bromofluorobenzene (Surr)	*98*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*79*		*59 - 120*

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

Lab Sample ID: MB 240-490151/5
Matrix: Solid
Analysis Batch: 490151

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-Trichloroethane	<1.8		5.0	1.8	ug/Kg			06/11/21 15:09	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			06/11/21 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			06/11/21 15:09	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			06/11/21 15:09	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			06/11/21 15:09	1
1,1-Dichloroethene	<1.8		5.0	1.8	ug/Kg			06/11/21 15:09	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			06/11/21 15:09	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			06/11/21 15:09	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			06/11/21 15:09	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			06/11/21 15:09	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			06/11/21 15:09	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			06/11/21 15:09	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			06/11/21 15:09	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			06/11/21 15:09	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			06/11/21 15:09	1
2-Hexanone	<4.1		20	4.1	ug/Kg			06/11/21 15:09	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			06/11/21 15:09	1
Acetone	<21		25	21	ug/Kg			06/11/21 15:09	1
Benzene	<0.70		5.0	0.70	ug/Kg			06/11/21 15:09	1
Dichlorobromomethane	<1.5		5.0	1.5	ug/Kg			06/11/21 15:09	1
Bromoform	<2.4		5.0	2.4	ug/Kg			06/11/21 15:09	1
Bromomethane	<4.2		5.0	4.2	ug/Kg			06/11/21 15:09	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			06/11/21 15:09	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			06/11/21 15:09	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			06/11/21 15:09	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			06/11/21 15:09	1
Chloroform	<0.79		5.0	0.79	ug/Kg			06/11/21 15:09	1
Chloromethane	<2.3		5.0	2.3	ug/Kg			06/11/21 15:09	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			06/11/21 15:09	1
cis-1,3-Dichloropropene	<2.9		5.0	2.9	ug/Kg			06/11/21 15:09	1
Cyclohexane	<1.4		10	1.4	ug/Kg			06/11/21 15:09	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			06/11/21 15:09	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			06/11/21 15:09	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			06/11/21 15:09	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			06/11/21 15:09	1
Methyl acetate	<3.4		25	3.4	ug/Kg			06/11/21 15:09	1
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/Kg			06/11/21 15:09	1
Methylcyclohexane	<1.2		10	1.2	ug/Kg			06/11/21 15:09	1
Methylene Chloride	<12		25	12	ug/Kg			06/11/21 15:09	1
Styrene	<1.2		5.0	1.2	ug/Kg			06/11/21 15:09	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			06/11/21 15:09	1
Toluene	<0.77		5.0	0.77	ug/Kg			06/11/21 15:09	1
trans-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			06/11/21 15:09	1
trans-1,3-Dichloropropene	<3.7		5.0	3.7	ug/Kg			06/11/21 15:09	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			06/11/21 15:09	1
Trichlorofluoromethane	<2.7		5.0	2.7	ug/Kg			06/11/21 15:09	1
Vinyl chloride	<1.8		5.0	1.8	ug/Kg			06/11/21 15:09	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			06/11/21 15:09	1

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

Lab Sample ID: MB 240-490151/5
Matrix: Solid
Analysis Batch: 490151

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		64 - 124		06/11/21 15:09	1
Dibromofluoromethane (Surr)	97		56 - 122		06/11/21 15:09	1
4-Bromofluorobenzene (Surr)	89		51 - 127		06/11/21 15:09	1
1,2-Dichloroethane-d4 (Surr)	84		59 - 120		06/11/21 15:09	1

Lab Sample ID: LCS 240-490151/4
Matrix: Solid
Analysis Batch: 490151

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-Trichloroethane	50.0	47.9		ug/Kg		96	60 - 126
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/Kg		109	61 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.2		ug/Kg		108	58 - 144
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	78 - 120
1,1-Dichloroethane	50.0	46.8		ug/Kg		94	69 - 120
1,1-Dichloroethene	50.0	55.8		ug/Kg		112	48 - 140
1,2,4-Trichlorobenzene	50.0	49.0		ug/Kg		98	56 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	35 - 137
Ethylene Dibromide	50.0	53.3		ug/Kg		107	73 - 126
1,2-Dichlorobenzene	50.0	49.8		ug/Kg		100	74 - 120
1,2-Dichloroethane	50.0	42.9		ug/Kg		86	66 - 120
1,2-Dichloropropane	50.0	47.2		ug/Kg		94	77 - 120
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	74 - 120
1,4-Dichlorobenzene	50.0	51.3		ug/Kg		103	74 - 120
2-Butanone (MEK)	100	86.9		ug/Kg		87	61 - 131
2-Hexanone	100	96.3		ug/Kg		96	54 - 135
4-Methyl-2-pentanone (MIBK)	100	98.6		ug/Kg		99	56 - 124
Acetone	100	89.8		ug/Kg		90	47 - 157
Benzene	50.0	49.3		ug/Kg		99	75 - 120
Dichlorobromomethane	50.0	52.3		ug/Kg		105	63 - 121
Bromoform	50.0	47.2		ug/Kg		94	44 - 131
Bromomethane	50.0	50.4		ug/Kg		101	10 - 158
Carbon disulfide	50.0	56.8		ug/Kg		114	33 - 144
Carbon tetrachloride	50.0	48.6		ug/Kg		97	54 - 130
Chlorobenzene	50.0	50.1		ug/Kg		100	79 - 120
Chloroethane	50.0	128	*+	ug/Kg		256	10 - 159
Chloroform	50.0	46.7		ug/Kg		93	74 - 120
Chloromethane	50.0	38.8		ug/Kg		78	40 - 127
cis-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	76 - 120
cis-1,3-Dichloropropene	50.0	50.1		ug/Kg		100	62 - 124
Cyclohexane	50.0	47.4		ug/Kg		95	57 - 126
Chlorodibromomethane	50.0	47.1		ug/Kg		94	60 - 121
Dichlorodifluoromethane	50.0	32.0		ug/Kg		64	18 - 137
Ethylbenzene	50.0	51.6		ug/Kg		103	75 - 120
Isopropylbenzene	50.0	51.6		ug/Kg		103	74 - 120
Methyl acetate	100	78.2		ug/Kg		78	63 - 120
Methyl tert-butyl ether	50.0	47.2		ug/Kg		94	66 - 120
Methylcyclohexane	50.0	52.2		ug/Kg		104	62 - 124

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

Lab Sample ID: LCS 240-490151/4
Matrix: Solid
Analysis Batch: 490151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	47.2		ug/Kg		94	48 - 142
Styrene	50.0	52.8		ug/Kg		106	70 - 120
Tetrachloroethene	50.0	48.7		ug/Kg		97	75 - 124
Toluene	50.0	50.3		ug/Kg		101	76 - 120
trans-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	74 - 125
trans-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	58 - 120
Trichloroethene	50.0	48.1		ug/Kg		96	75 - 123
Trichlorofluoromethane	50.0	49.3		ug/Kg		99	33 - 152
Vinyl chloride	50.0	49.0		ug/Kg		98	39 - 140
Xylenes, Total	100	103		ug/Kg		103	77 - 120
m-Xylene & p-Xylene	50.0	51.4		ug/Kg		103	76 - 120
o-Xylene	50.0	51.6		ug/Kg		103	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*64 - 124*
Dibromofluoromethane (Surr)	*92*		*56 - 122*
4-Bromofluorobenzene (Surr)	*87*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*75*		*59 - 120*

Lab Sample ID: MB 240-490214/10
Matrix: Water
Analysis Batch: 490214

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-Trichloroethane	<0.48		1.0	0.48	ug/L			06/11/21 13:54	1
1,1,2,2-Tetrachloroethane	<0.60		1.0	0.60	ug/L			06/11/21 13:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.41		1.0	0.41	ug/L			06/11/21 13:54	1
1,1,2-Trichloroethane	<0.48		1.0	0.48	ug/L			06/11/21 13:54	1
1,1-Dichloroethane	<0.47		1.0	0.47	ug/L			06/11/21 13:54	1
1,1-Dichloroethene	<0.49		1.0	0.49	ug/L			06/11/21 13:54	1
1,2,4-Trichlorobenzene	<0.77		1.0	0.77	ug/L			06/11/21 13:54	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			06/11/21 13:54	1
Ethylene Dibromide	<0.41		1.0	0.41	ug/L			06/11/21 13:54	1
1,2-Dichlorobenzene	<0.48		1.0	0.48	ug/L			06/11/21 13:54	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			06/11/21 13:54	1
1,2-Dichloropropane	<0.47		1.0	0.47	ug/L			06/11/21 13:54	1
1,3-Dichlorobenzene	<0.45		1.0	0.45	ug/L			06/11/21 13:54	1
1,4-Dichlorobenzene	<0.41		1.0	0.41	ug/L			06/11/21 13:54	1
2-Butanone (MEK)	<1.2		10	1.2	ug/L			06/11/21 13:54	1
2-Hexanone	<1.1		10	1.1	ug/L			06/11/21 13:54	1
4-Methyl-2-pentanone (MIBK)	<0.99		10	0.99	ug/L			06/11/21 13:54	1
Acetone	<5.4		10	5.4	ug/L			06/11/21 13:54	1
Benzene	<0.42		1.0	0.42	ug/L			06/11/21 13:54	1
Dichlorobromomethane	<0.17		1.0	0.17	ug/L			06/11/21 13:54	1
Bromoform	<0.76		1.0	0.76	ug/L			06/11/21 13:54	1
Bromomethane	<0.42		1.0	0.42	ug/L			06/11/21 13:54	1
Carbon disulfide	<0.59		1.0	0.59	ug/L			06/11/21 13:54	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			06/11/21 13:54	1

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

Lab Sample ID: MB 240-490214/10
Matrix: Water
Analysis Batch: 490214

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.38		1.0	0.38	ug/L			06/11/21 13:54	1
Chloroethane	<0.83		1.0	0.83	ug/L			06/11/21 13:54	1
Chloroform	<0.47		1.0	0.47	ug/L			06/11/21 13:54	1
Chloromethane	<0.63		1.0	0.63	ug/L			06/11/21 13:54	1
cis-1,2-Dichloroethene	<0.46		1.0	0.46	ug/L			06/11/21 13:54	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			06/11/21 13:54	1
Cyclohexane	<0.48		1.0	0.48	ug/L			06/11/21 13:54	1
Chlorodibromomethane	<0.39		1.0	0.39	ug/L			06/11/21 13:54	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			06/11/21 13:54	1
Ethylbenzene	<0.42		1.0	0.42	ug/L			06/11/21 13:54	1
Isopropylbenzene	<0.49		1.0	0.49	ug/L			06/11/21 13:54	1
Methyl acetate	<1.7		10	1.7	ug/L			06/11/21 13:54	1
Methyl tert-butyl ether	<0.47		1.0	0.47	ug/L			06/11/21 13:54	1
Methylcyclohexane	<0.33		1.0	0.33	ug/L			06/11/21 13:54	1
Methylene Chloride	<2.6		5.0	2.6	ug/L			06/11/21 13:54	1
Styrene	<0.45		1.0	0.45	ug/L			06/11/21 13:54	1
Tetrachloroethene	<0.44		1.0	0.44	ug/L			06/11/21 13:54	1
Toluene	<0.44		1.0	0.44	ug/L			06/11/21 13:54	1
trans-1,2-Dichloroethene	<0.51		1.0	0.51	ug/L			06/11/21 13:54	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			06/11/21 13:54	1
Trichloroethene	<0.44		1.0	0.44	ug/L			06/11/21 13:54	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			06/11/21 13:54	1
Vinyl chloride	<0.45		1.0	0.45	ug/L			06/11/21 13:54	1
Xylenes, Total	<0.42		2.0	0.42	ug/L			06/11/21 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*69 - 122*		*06/11/21 13:54*	*1*
Dibromofluoromethane (Surr)	*88*		*78 - 129*		*06/11/21 13:54*	*1*
4-Bromofluorobenzene (Surr)	*83*		*47 - 134*		*06/11/21 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 130*		*06/11/21 13:54*	*1*

Lab Sample ID: LCS 240-490214/6
Matrix: Water
Analysis Batch: 490214

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-Trichloroethane	20.0	16.8		ug/L		84	65 - 141
1,1,2,2-Tetrachloroethane	20.0	16.6		ug/L		83	45 - 151
1,1,2-Trichloro-1,2,2-trifluoroetha ne	20.0	17.2		ug/L		86	54 - 148
1,1,2-Trichloroethane	20.0	16.2		ug/L		81	79 - 121
1,1-Dichloroethane	20.0	16.2		ug/L		81	74 - 126
1,1-Dichloroethene	20.0	17.8		ug/L		89	73 - 129
1,2,4-Trichlorobenzene	20.0	16.6		ug/L		83	47 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.9		ug/L		84	34 - 136
Ethylene Dibromide	20.0	16.7		ug/L		83	73 - 120
1,2-Dichlorobenzene	20.0	15.8		ug/L		79	74 - 120
1,2-Dichloroethane	20.0	16.3		ug/L		82	66 - 129
1,2-Dichloropropane	20.0	16.8		ug/L		84	79 - 127

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

Lab Sample ID: LCS 240-490214/6
Matrix: Water
Analysis Batch: 490214

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	20.0	16.6		ug/L		83	74 - 120
1,4-Dichlorobenzene	20.0	16.4		ug/L		82	75 - 120
2-Butanone (MEK)	40.0	34.6		ug/L		87	41 - 151
2-Hexanone	40.0	31.4		ug/L		78	43 - 142
4-Methyl-2-pentanone (MIBK)	40.0	32.6		ug/L		81	43 - 145
Acetone	40.0	32.2		ug/L		81	33 - 155
Benzene	20.0	16.2		ug/L		81	77 - 123
Dichlorobromomethane	20.0	16.5		ug/L		82	73 - 122
Bromoform	20.0	17.2		ug/L		86	47 - 133
Bromomethane	20.0	15.0		ug/L		75	48 - 144
Carbon disulfide	20.0	16.8		ug/L		84	67 - 127
Carbon tetrachloride	20.0	16.7		ug/L		83	61 - 142
Chlorobenzene	20.0	16.3		ug/L		82	80 - 120
Chloroethane	20.0	16.1		ug/L		80	41 - 147
Chloroform	20.0	16.4		ug/L		82	74 - 127
Chloromethane	20.0	14.7		ug/L		74	46 - 148
cis-1,2-Dichloroethene	20.0	17.0		ug/L		85	75 - 124
cis-1,3-Dichloropropene	20.0	16.7		ug/L		84	68 - 128
Cyclohexane	20.0	16.8		ug/L		84	69 - 133
Chlorodibromomethane	20.0	16.6		ug/L		83	75 - 120
Dichlorodifluoromethane	20.0	12.5		ug/L		63	35 - 137
Ethylbenzene	20.0	16.4		ug/L		82	80 - 120
Isopropylbenzene	20.0	16.7		ug/L		83	73 - 123
Methyl acetate	40.0	34.2		ug/L		85	47 - 140
Methyl tert-butyl ether	20.0	16.7		ug/L		83	57 - 127
Methylcyclohexane	20.0	16.8		ug/L		84	64 - 123
Methylene Chloride	20.0	16.5		ug/L		83	63 - 134
Styrene	20.0	17.0		ug/L		85	75 - 121
Tetrachloroethene	20.0	16.7		ug/L		84	70 - 125
Toluene	20.0	16.4		ug/L		82	79 - 122
trans-1,2-Dichloroethene	20.0	16.8		ug/L		84	74 - 130
trans-1,3-Dichloropropene	20.0	15.4		ug/L		77	64 - 120
Trichloroethene	20.0	16.5		ug/L		82	71 - 121
Trichlorofluoromethane	20.0	16.8		ug/L		84	52 - 148
Vinyl chloride	20.0	16.2		ug/L		81	61 - 134
Xylenes, Total	40.0	33.2		ug/L		83	78 - 122
m-Xylene & p-Xylene	20.0	16.6		ug/L		83	79 - 121
o-Xylene	20.0	16.6		ug/L		83	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*87*		*69 - 122*
Dibromofluoromethane (Surr)	*87*		*78 - 129*
4-Bromofluorobenzene (Surr)	*86*		*47 - 134*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 130*

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

Lab Sample ID: 240-150940-4 MS
Matrix: Solid
Analysis Batch: 490151

Client Sample ID: B-4_10-12.5
Prep Type: Total/NA
Prep Batch: 490278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<2.2		60.8	67.9		ug/Kg	☼	112	27 - 131
1,1,2,2-Tetrachloroethane	<1.8	F2	60.8	57.5		ug/Kg	☼	95	10 - 168
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.6		60.8	86.9		ug/Kg	☼	143	30 - 145
1,1,2-Trichloroethane	<1.4		60.8	52.7		ug/Kg	☼	87	17 - 152
1,1-Dichloroethane	<0.86		60.8	60.0		ug/Kg	☼	99	35 - 129
1,1-Dichloroethene	<2.3		60.8	83.4		ug/Kg	☼	137	20 - 150
1,2,4-Trichlorobenzene	<3.1	F2	60.8	37.4		ug/Kg	☼	61	10 - 120
1,2-Dibromo-3-Chloropropane	<4.5	F2	60.8	47.7		ug/Kg	☼	78	10 - 135
Ethylene Dibromide	<0.95		60.8	53.8		ug/Kg	☼	88	24 - 138
1,2-Dichlorobenzene	<1.4	F2	60.8	43.7		ug/Kg	☼	72	10 - 131
1,2-Dichloroethane	<0.95		60.8	45.8		ug/Kg	☼	75	33 - 130
1,2-Dichloropropane	<1.1		60.8	54.8		ug/Kg	☼	90	33 - 134
1,3-Dichlorobenzene	<1.0		60.8	44.5		ug/Kg	☼	73	10 - 131
1,4-Dichlorobenzene	<1.1	F2	60.8	45.1		ug/Kg	☼	74	10 - 129
2-Butanone (MEK)	<4.4		122	89.8		ug/Kg	☼	74	31 - 148
2-Hexanone	<5.1	F2	122	99.9		ug/Kg	☼	82	23 - 149
4-Methyl-2-pentanone (MIBK)	<4.6	F2	122	103		ug/Kg	☼	85	29 - 140
Acetone	<26		122	98.8		ug/Kg	☼	81	18 - 167
Benzene	<0.86		60.8	60.7		ug/Kg	☼	100	32 - 131
Dichlorobromomethane	<1.9		60.8	55.8		ug/Kg	☼	92	18 - 125
Bromoform	<3.0		60.8	43.3		ug/Kg	☼	71	10 - 122
Bromomethane	<5.1		60.8	63.4		ug/Kg	☼	104	10 - 149
Carbon disulfide	<1.4		60.8	81.4		ug/Kg	☼	134	10 - 134
Carbon tetrachloride	<4.0		60.8	69.7		ug/Kg	☼	115	13 - 131
Chlorobenzene	<1.1		60.8	53.3		ug/Kg	☼	88	16 - 129
Chloroethane	<3.4	*+ F1	60.8	218	F1	ug/Kg	☼	359	10 - 155
Chloroform	<0.97		60.8	57.4		ug/Kg	☼	94	38 - 129
Chloromethane	<2.8		60.8	52.7		ug/Kg	☼	87	20 - 140
cis-1,2-Dichloroethene	<1.8		60.8	56.4		ug/Kg	☼	93	35 - 130
cis-1,3-Dichloropropene	<3.6		60.8	52.0		ug/Kg	☼	86	12 - 131
Cyclohexane	<1.7		60.8	74.9		ug/Kg	☼	123	17 - 133
Chlorodibromomethane	<3.4		60.8	46.6		ug/Kg	☼	77	15 - 125
Dichlorodifluoromethane	<1.2		60.8	46.8		ug/Kg	☼	77	10 - 141
Ethylbenzene	<1.3		60.8	58.6		ug/Kg	☼	96	12 - 133
Isopropylbenzene	<2.4		60.8	59.8		ug/Kg	☼	98	10 - 135
Methyl acetate	<4.2		122	90.3		ug/Kg	☼	74	20 - 155
Methyl tert-butyl ether	<2.4		60.8	48.0		ug/Kg	☼	79	42 - 127
Methylcyclohexane	<1.5		60.8	79.7		ug/Kg	☼	131	10 - 133
Methylene Chloride	42		60.8	88.1		ug/Kg	☼	76	22 - 153
Styrene	<1.4		60.8	53.5		ug/Kg	☼	88	10 - 127
Tetrachloroethene	1.0	J	60.8	62.9		ug/Kg	☼	102	13 - 144
Toluene	<0.96		60.8	60.2		ug/Kg	☼	99	20 - 141
trans-1,2-Dichloroethene	<1.8		60.8	68.6		ug/Kg	☼	113	31 - 138
trans-1,3-Dichloropropene	<4.6		60.8	46.1		ug/Kg	☼	76	10 - 123
Trichloroethene	<0.78		60.8	58.8		ug/Kg	☼	97	10 - 162
Trichlorofluoromethane	<3.3		60.8	76.8		ug/Kg	☼	126	16 - 148
Vinyl chloride	<2.2		60.8	73.0		ug/Kg	☼	120	15 - 150
Xylenes, Total	<2.0		122	114		ug/Kg	☼	94	10 - 134

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

Lab Sample ID: 240-150940-4 MS
Matrix: Solid
Analysis Batch: 490151

Client Sample ID: B-4_10-12.5
Prep Type: Total/NA
Prep Batch: 490278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	<0.97		60.8	57.5		ug/Kg	☼	95	10 - 132
o-Xylene	<1.1		60.8	56.8		ug/Kg	☼	93	11 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*64 - 124*
Dibromofluoromethane (Surr)	*93*		*56 - 122*
4-Bromofluorobenzene (Surr)	*92*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*80*		*59 - 120*

Lab Sample ID: 240-150940-4 MSD
Matrix: Solid
Analysis Batch: 490151

Client Sample ID: B-4_10-12.5
Prep Type: Total/NA
Prep Batch: 490278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<2.2		59.8	54.8		ug/Kg	☼	92	27 - 131	21	40
1,1,2,2-Tetrachloroethane	<1.8	F2	59.8	37.4	F2	ug/Kg	☼	63	10 - 168	42	40
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.6		59.8	73.2		ug/Kg	☼	122	30 - 145	17	40
1,1,2-Trichloroethane	<1.4		59.8	35.9		ug/Kg	☼	60	17 - 152	38	40
1,1-Dichloroethane	<0.86		59.8	47.2		ug/Kg	☼	79	35 - 129	24	40
1,1-Dichloroethene	<2.3		59.8	69.7		ug/Kg	☼	116	20 - 150	18	40
1,2,4-Trichlorobenzene	<3.1	F2	59.8	23.1	F2	ug/Kg	☼	39	10 - 120	47	40
1,2-Dibromo-3-Chloropropane	<4.5	F2	59.8	31.2	F2	ug/Kg	☼	52	10 - 135	42	40
Ethylene Dibromide	<0.95		59.8	36.4		ug/Kg	☼	61	24 - 138	39	40
1,2-Dichlorobenzene	<1.4	F2	59.8	28.8	F2	ug/Kg	☼	48	10 - 131	41	40
1,2-Dichloroethane	<0.95		59.8	32.6		ug/Kg	☼	55	33 - 130	34	40
1,2-Dichloropropane	<1.1		59.8	40.1		ug/Kg	☼	67	33 - 134	31	40
1,3-Dichlorobenzene	<1.0		59.8	30.7		ug/Kg	☼	51	10 - 131	37	40
1,4-Dichlorobenzene	<1.1	F2	59.8	29.7	F2	ug/Kg	☼	50	10 - 129	41	40
2-Butanone (MEK)	<4.4		120	60.2		ug/Kg	☼	50	31 - 148	39	40
2-Hexanone	<5.1	F2	120	64.6	F2	ug/Kg	☼	54	23 - 149	43	40
4-Methyl-2-pentanone (MIBK)	<4.6	F2	120	68.1	F2	ug/Kg	☼	57	29 - 140	41	40
Acetone	<26		120	68.1		ug/Kg	☼	57	18 - 167	37	40
Benzene	<0.86		59.8	46.3		ug/Kg	☼	77	32 - 131	27	40
Dichlorobromomethane	<1.9		59.8	39.8		ug/Kg	☼	66	18 - 125	33	40
Bromoform	<3.0		59.8	29.6		ug/Kg	☼	49	10 - 122	38	40
Bromomethane	<5.1		59.8	48.1		ug/Kg	☼	80	10 - 149	27	40
Carbon disulfide	<1.4		59.8	65.5		ug/Kg	☼	109	10 - 134	22	40
Carbon tetrachloride	<4.0		59.8	56.4		ug/Kg	☼	94	13 - 131	21	40
Chlorobenzene	<1.1		59.8	37.3		ug/Kg	☼	62	16 - 129	35	40
Chloroethane	<3.4	*+ F1	59.8	171	F1	ug/Kg	☼	286	10 - 155	24	40
Chloroform	<0.97		59.8	42.8		ug/Kg	☼	72	38 - 129	29	40
Chloromethane	<2.8		59.8	42.5		ug/Kg	☼	71	20 - 140	21	40
cis-1,2-Dichloroethene	<1.8		59.8	42.6		ug/Kg	☼	71	35 - 130	28	40
cis-1,3-Dichloropropene	<3.6		59.8	37.3		ug/Kg	☼	62	12 - 131	33	40
Cyclohexane	<1.7		59.8	61.5		ug/Kg	☼	103	17 - 133	20	40
Chlorodibromomethane	<3.4		59.8	32.9		ug/Kg	☼	55	15 - 125	34	40
Dichlorodifluoromethane	<1.2		59.8	42.8		ug/Kg	☼	72	10 - 141	9	40
Ethylbenzene	<1.3		59.8	43.1		ug/Kg	☼	72	12 - 133	31	40

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

Lab Sample ID: 240-150940-4 MSD — **Client Sample ID: B-4_10-12.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490151 — **Prep Batch: 490278**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	<2.4		59.8	43.4		ug/Kg	☼	73	10 - 135	32	40
Methyl acetate	<4.2		120	60.2		ug/Kg	☼	50	20 - 155	40	40
Methyl tert-butyl ether	<2.4		59.8	34.1		ug/Kg	☼	57	42 - 127	34	40
Methylcyclohexane	<1.5		59.8	66.3		ug/Kg	☼	111	10 - 133	18	40
Methylene Chloride	42		59.8	65.3		ug/Kg	☼	40	22 - 153	30	40
Styrene	<1.4		59.8	36.5		ug/Kg	☼	61	10 - 127	38	40
Tetrachloroethene	1.0	J	59.8	48.1		ug/Kg	☼	79	13 - 144	27	40
Toluene	<0.96		59.8	44.9		ug/Kg	☼	75	20 - 141	29	40
trans-1,2-Dichloroethene	<1.8		59.8	55.3		ug/Kg	☼	93	31 - 138	21	40
trans-1,3-Dichloropropene	<4.6		59.8	31.1		ug/Kg	☼	52	10 - 123	39	40
Trichloroethene	<0.78		59.8	45.8		ug/Kg	☼	77	10 - 162	25	40
Trichlorofluoromethane	<3.3		59.8	62.4		ug/Kg	☼	104	16 - 148	21	40
Vinyl chloride	<2.2		59.8	59.6		ug/Kg	☼	100	15 - 150	20	40
Xylenes, Total	<2.0		120	81.7		ug/Kg	☼	68	10 - 134	33	40
m-Xylene & p-Xylene	<0.97		59.8	41.2		ug/Kg	☼	69	10 - 132	33	40
o-Xylene	<1.1		59.8	40.5		ug/Kg	☼	68	11 - 134	34	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*64 - 124*
Dibromofluoromethane (Surr)	*96*		*56 - 122*
4-Bromofluorobenzene (Surr)	*92*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*81*		*59 - 120*

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

Lab Sample ID: MB 240-489974/23-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490449 — **Prep Batch: 489974**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<2.9		15	2.9	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Acenaphthylene	<4.0		15	4.0	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Anthracene	<2.4		15	2.4	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Benzo[a]anthracene	<3.4		15	3.4	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Benzo[a]pyrene	<9.3		15	9.3	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Benzo[b]fluoranthene	<6.5		15	6.5	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Benzo[g,h,i]perylene	<7.1		15	7.1	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Benzo[k]fluoranthene	<6.9		15	6.9	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Chrysene	<1.5		15	1.5	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Dibenz(a,h)anthracene	<6.9		15	6.9	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Fluoranthene	<4.5		15	4.5	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Fluorene	<2.7		15	2.7	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Indeno[1,2,3-cd]pyrene	<7.4		15	7.4	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Naphthalene	<2.4		15	2.4	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Phenanthrene	<2.2		15	2.2	ug/Kg		06/10/21 08:56	06/14/21 11:29	1
Pyrene	<2.1		15	2.1	ug/Kg		06/10/21 08:56	06/14/21 11:29	1

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

Lab Sample ID: MB 240-489974/23-A
Matrix: Solid
Analysis Batch: 490449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489974

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	110		39 - 120	06/10/21 08:56	06/14/21 11:29	1
Phenol-d5 (Surr)	78		28 - 120	06/10/21 08:56	06/14/21 11:29	1
Nitrobenzene-d5 (Surr)	68		28 - 120	06/10/21 08:56	06/14/21 11:29	1
2-Fluorophenol (Surr)	71		26 - 120	06/10/21 08:56	06/14/21 11:29	1
2-Fluorobiphenyl (Surr)	77		35 - 120	06/10/21 08:56	06/14/21 11:29	1
2,4,6-Tribromophenol (Surr)	45		10 - 120	06/10/21 08:56	06/14/21 11:29	1

Lab Sample ID: LCS 240-489974/24-A
Matrix: Solid
Analysis Batch: 490449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	623		ug/Kg		93	45 - 120
Acenaphthylene	667	598		ug/Kg		90	45 - 120
Anthracene	667	664		ug/Kg		100	52 - 120
Benzo[a]anthracene	667	702		ug/Kg		105	52 - 120
Benzo[a]pyrene	667	639		ug/Kg		96	50 - 120
Benzo[b]fluoranthene	667	699		ug/Kg		105	52 - 120
Benzo[g,h,i]perylene	667	636		ug/Kg		95	54 - 120
Benzo[k]fluoranthene	667	676		ug/Kg		101	54 - 120
Chrysene	667	680		ug/Kg		102	53 - 120
Dibenz(a,h)anthracene	667	633		ug/Kg		95	50 - 120
Fluoranthene	667	658		ug/Kg		99	54 - 120
Fluorene	667	616		ug/Kg		92	48 - 120
Indeno[1,2,3-cd]pyrene	667	634		ug/Kg		95	52 - 120
Naphthalene	667	640		ug/Kg		96	39 - 120
Phenanthrene	667	649		ug/Kg		97	50 - 120
Pyrene	667	654		ug/Kg		98	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	119		39 - 120
Phenol-d5 (Surr)	99		28 - 120
Nitrobenzene-d5 (Surr)	98		28 - 120
2-Fluorophenol (Surr)	97		26 - 120
2-Fluorobiphenyl (Surr)	95		35 - 120
2,4,6-Tribromophenol (Surr)	95		10 - 120

Lab Sample ID: 240-150940-2 MS
Matrix: Solid
Analysis Batch: 490449

Client Sample ID: B-2_12.5-15
Prep Type: Total/NA
Prep Batch: 489974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	<3.2		756	608		ug/Kg	☼	80	41 - 120
Acenaphthylene	<4.5		756	610		ug/Kg	☼	81	39 - 120
Anthracene	<2.7		756	671		ug/Kg	☼	89	43 - 106
Benzo[a]anthracene	<3.8		756	697		ug/Kg	☼	92	32 - 120
Benzo[a]pyrene	<10		756	647		ug/Kg	☼	86	35 - 120
Benzo[b]fluoranthene	14	J	756	684		ug/Kg	☼	89	27 - 126

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

Lab Sample ID: 240-150940-2 MS
Matrix: Solid
Analysis Batch: 490449

Client Sample ID: B-2_12.5-15
Prep Type: Total/NA
Prep Batch: 489974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	<7.9		756	682		ug/Kg	☼	90	29 - 122
Benzo[k]fluoranthene	<7.7		756	695		ug/Kg	☼	92	39 - 120
Chrysene	<1.7		756	662		ug/Kg	☼	88	31 - 121
Dibenz(a,h)anthracene	<7.7		756	681		ug/Kg	☼	90	36 - 120
Fluoranthene	6.3	J	756	697		ug/Kg	☼	91	30 - 125
Fluorene	<3.1		756	602		ug/Kg	☼	80	44 - 120
Indeno[1,2,3-cd]pyrene	<8.2		756	670		ug/Kg	☼	89	34 - 120
Naphthalene	<2.7		756	608		ug/Kg	☼	80	30 - 120
Phenanthrene	9.2	J	756	651		ug/Kg	☼	85	31 - 120
Pyrene	4.6	J	756	682		ug/Kg	☼	90	28 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*103*		*39 - 120*
Phenol-d5 (Surr)	*80*		*28 - 120*
Nitrobenzene-d5 (Surr)	*82*		*28 - 120*
2-Fluorophenol (Surr)	*70*		*26 - 120*
2-Fluorobiphenyl (Surr)	*86*		*35 - 120*
2,4,6-Tribromophenol (Surr)	*66*		*10 - 120*

Lab Sample ID: 240-150940-2 MSD
Matrix: Solid
Analysis Batch: 490449

Client Sample ID: B-2_12.5-15
Prep Type: Total/NA
Prep Batch: 489974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<3.2		747	603		ug/Kg	☼	81	41 - 120	1	34
Acenaphthylene	<4.5		747	610		ug/Kg	☼	82	39 - 120	0	34
Anthracene	<2.7		747	687		ug/Kg	☼	92	43 - 106	2	32
Benzo[a]anthracene	<3.8		747	689		ug/Kg	☼	92	32 - 120	1	37
Benzo[a]pyrene	<10		747	660		ug/Kg	☼	88	35 - 120	2	38
Benzo[b]fluoranthene	14	J	747	683		ug/Kg	☼	90	27 - 126	0	40
Benzo[g,h,i]perylene	<7.9		747	691		ug/Kg	☼	92	29 - 122	1	40
Benzo[k]fluoranthene	<7.7		747	733		ug/Kg	☼	98	39 - 120	5	37
Chrysene	<1.7		747	674		ug/Kg	☼	90	31 - 121	2	37
Dibenz(a,h)anthracene	<7.7		747	682		ug/Kg	☼	91	36 - 120	0	38
Fluoranthene	6.3	J	747	712		ug/Kg	☼	94	30 - 125	2	31
Fluorene	<3.1		747	615		ug/Kg	☼	82	44 - 120	2	32
Indeno[1,2,3-cd]pyrene	<8.2		747	675		ug/Kg	☼	90	34 - 120	1	40
Naphthalene	<2.7		747	607		ug/Kg	☼	81	30 - 120	0	40
Phenanthrene	9.2	J	747	656		ug/Kg	☼	87	31 - 120	1	35
Pyrene	4.6	J	747	670		ug/Kg	☼	89	28 - 122	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*101*		*39 - 120*
Phenol-d5 (Surr)	*84*		*28 - 120*
Nitrobenzene-d5 (Surr)	*79*		*28 - 120*
2-Fluorophenol (Surr)	*69*		*26 - 120*
2-Fluorobiphenyl (Surr)	*84*		*35 - 120*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-489982/22-A
Matrix: Solid
Analysis Batch: 490323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1221	<24		50	24	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1232	<23		50	23	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1242	<19		50	19	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1248	<24		50	24	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1254	<23		50	23	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1260	<22		50	22	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1262	<31		50	31	ug/Kg		06/10/21 09:20	06/12/21 14:03	1
Aroclor-1268	<23		50	23	ug/Kg		06/10/21 09:20	06/12/21 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*14 - 128*	*06/10/21 09:20*	*06/12/21 14:03*	*1*
DCB Decachlorobiphenyl	*74*		*10 - 132*	*06/10/21 09:20*	*06/12/21 14:03*	*1*

Lab Sample ID: LCS 240-489982/23-A
Matrix: Solid
Analysis Batch: 490323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	607		ug/Kg		61	47 - 120
Aroclor-1260	1000	655		ug/Kg		66	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*14 - 128*
DCB Decachlorobiphenyl	*74*		*10 - 132*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-490026/1-A
Matrix: Solid
Analysis Batch: 490231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.36		20	0.36	mg/Kg		06/10/21 14:00	06/11/21 15:05	1
Cadmium	<0.048		0.50	0.048	mg/Kg		06/10/21 14:00	06/11/21 15:05	1
Chromium	<0.34		1.0	0.34	mg/Kg		06/10/21 14:00	06/11/21 15:05	1
Silver	<0.081		1.0	0.081	mg/Kg		06/10/21 14:00	06/11/21 15:05	1
Arsenic	<0.32		1.5	0.32	mg/Kg		06/10/21 14:00	06/11/21 15:05	1
Lead	<0.28		1.0	0.28	mg/Kg		06/10/21 14:00	06/11/21 15:05	1
Selenium	<0.47		2.0	0.47	mg/Kg		06/10/21 14:00	06/11/21 15:05	1

Lab Sample ID: LCS 240-490026/2-A
Matrix: Solid
Analysis Batch: 490231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	191		mg/Kg		96	80 - 120
Cadmium	100	94.1		mg/Kg		94	80 - 120

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

Lab Sample ID: LCS 240-490026/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490231 — **Prep Batch: 490026**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	91.3		mg/Kg		91	80 - 120
Silver	10.0	9.57		mg/Kg		96	80 - 120
Arsenic	200	193		mg/Kg		96	80 - 120
Lead	100	89.2		mg/Kg		89	80 - 120
Selenium	200	185		mg/Kg		93	80 - 120

Lab Sample ID: 240-150940-1 MS — **Client Sample ID: B-1_4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490231 — **Prep Batch: 490026**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50		206	238		mg/Kg	☼	91	75 - 125
Cadmium	0.093	J	103	89.9		mg/Kg	☼	87	75 - 125
Chromium	10		103	100		mg/Kg	☼	88	75 - 125
Silver	<0.075		10.3	9.29		mg/Kg	☼	90	75 - 125
Arsenic	13		206	197		mg/Kg	☼	89	75 - 125
Lead	12		103	96.3		mg/Kg	☼	82	75 - 125
Selenium	<0.43		206	174		mg/Kg	☼	85	75 - 125

Lab Sample ID: 240-150940-1 MSD — **Client Sample ID: B-1_4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490231 — **Prep Batch: 490026**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	50		206	243		mg/Kg	☼	94	75 - 125	2	20
Cadmium	0.093	J	103	90.3		mg/Kg	☼	88	75 - 125	0	20
Chromium	10		103	100		mg/Kg	☼	87	75 - 125	0	20
Silver	<0.075		10.3	9.33		mg/Kg	☼	91	75 - 125	1	20
Arsenic	13		206	197		mg/Kg	☼	89	75 - 125	0	20
Lead	12		103	94.5		mg/Kg	☼	81	75 - 125	2	20
Selenium	<0.43		206	175		mg/Kg	☼	85	75 - 125	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 240-490038/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490062 — **Prep Batch: 490038**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.10	0.018	mg/Kg		06/10/21 14:00	06/11/21 07:05	1

Lab Sample ID: LCS 240-490038/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490062 — **Prep Batch: 490038**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.921		mg/Kg		110	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 240-150940-1 MS — **Client Sample ID: B-1_4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490062 — **Prep Batch: 490038**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.042	J	0.183	0.231		mg/Kg	☼	103	80 - 120		

Lab Sample ID: 240-150940-1 MSD — **Client Sample ID: B-1_4-6**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490062 — **Prep Batch: 490038**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.042	J	0.183	0.235		mg/Kg	☼	105	80 - 120	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 240-150940-9 DU — **Client Sample ID: B-9_0-2.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 490043

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	76.2			81.2		%				6	20
Percent Moisture	23.8			18.8	F3	%				23	20

GC/MS VOA

Analysis Batch: 489935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	8260D	489990
240-150940-2	B-2_12.5-15	Total/NA	Solid	8260D	489990
240-150940-3	B-3_17.5-20	Total/NA	Solid	8260D	489990
240-150940-5	B-5_0-2.5	Total/NA	Solid	8260D	489990
240-150940-6	B-6_10-12.5	Total/NA	Solid	8260D	489990
240-150940-7	B-7_12.5-15	Total/NA	Solid	8260D	489990
240-150940-8	B-8_12.5-15	Total/NA	Solid	8260D	489990
240-150940-9	B-9_0-2.5	Total/NA	Solid	8260D	489990
240-150940-10	B-10_12.5-15	Total/NA	Solid	8260D	489990
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	8260D	489990
MB 240-489935/6	Method Blank	Total/NA	Solid	8260D	
LCS 240-489935/5	Lab Control Sample	Total/NA	Solid	8260D	
240-150940-10 MS	B-10_12.5-15	Total/NA	Solid	8260D	489990
240-150940-10 MSD	B-10_12.5-15	Total/NA	Solid	8260D	489990

Prep Batch: 489990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	5030C	
240-150940-2	B-2_12.5-15	Total/NA	Solid	5030C	
240-150940-3	B-3_17.5-20	Total/NA	Solid	5030C	
240-150940-5	B-5_0-2.5	Total/NA	Solid	5030C	
240-150940-6	B-6_10-12.5	Total/NA	Solid	5030C	
240-150940-7	B-7_12.5-15	Total/NA	Solid	5030C	
240-150940-8	B-8_12.5-15	Total/NA	Solid	5030C	
240-150940-9	B-9_0-2.5	Total/NA	Solid	5030C	
240-150940-10	B-10_12.5-15	Total/NA	Solid	5030C	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	5030C	
240-150940-10 MS	B-10_12.5-15	Total/NA	Solid	5030C	
240-150940-10 MSD	B-10_12.5-15	Total/NA	Solid	5030C	

Analysis Batch: 490034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-12	B-11_2.5-5	Total/NA	Solid	8260D	490118
240-150940-13	B-12_10-12.5	Total/NA	Solid	8260D	490118
MB 240-490034/5	Method Blank	Total/NA	Solid	8260D	
LCS 240-490034/4	Lab Control Sample	Total/NA	Solid	8260D	
240-150940-12 MS	B-11_2.5-5	Total/NA	Solid	8260D	490118
240-150940-12 MSD	B-11_2.5-5	Total/NA	Solid	8260D	490118

Prep Batch: 490118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-12	B-11_2.5-5	Total/NA	Solid	5030C	
240-150940-13	B-12_10-12.5	Total/NA	Solid	5030C	
240-150940-12 MS	B-11_2.5-5	Total/NA	Solid	5030C	
240-150940-12 MSD	B-11_2.5-5	Total/NA	Solid	5030C	

Analysis Batch: 490151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-4	B-4_10-12.5	Total/NA	Solid	8260D	490278
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	8260D	490278
MB 240-490151/5	Method Blank	Total/NA	Solid	8260D	

GC/MS VOA (Continued)

Analysis Batch: 490151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-490151/4	Lab Control Sample	Total/NA	Solid	8260D	
240-150940-4 MS	B-4_10-12.5	Total/NA	Solid	8260D	490278
240-150940-4 MSD	B-4_10-12.5	Total/NA	Solid	8260D	490278

Analysis Batch: 490214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-14	B-1_GW 1	Total/NA	Water	8260D	
240-150940-15	TB-0628	Total/NA	Water	8260D	
MB 240-490214/10	Method Blank	Total/NA	Water	8260D	
LCS 240-490214/6	Lab Control Sample	Total/NA	Water	8260D	

Prep Batch: 490278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-4	B-4_10-12.5	Total/NA	Solid	5030C	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	5030C	
240-150940-4 MS	B-4_10-12.5	Total/NA	Solid	5030C	
240-150940-4 MSD	B-4_10-12.5	Total/NA	Solid	5030C	

GC/MS Semi VOA

Prep Batch: 489974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	3540C	
240-150940-2	B-2_12.5-15	Total/NA	Solid	3540C	
240-150940-3	B-3_17.5-20	Total/NA	Solid	3540C	
240-150940-4	B-4_10-12.5	Total/NA	Solid	3540C	
240-150940-5	B-5_0-2.5	Total/NA	Solid	3540C	
240-150940-6	B-6_10-12.5	Total/NA	Solid	3540C	
240-150940-7	B-7_12.5-15	Total/NA	Solid	3540C	
240-150940-8	B-8_12.5-15	Total/NA	Solid	3540C	
240-150940-9	B-9_0-2.5	Total/NA	Solid	3540C	
240-150940-10	B-10_12.5-15	Total/NA	Solid	3540C	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	3540C	
240-150940-12	B-11_2.5-5	Total/NA	Solid	3540C	
240-150940-13	B-12_10-12.5	Total/NA	Solid	3540C	
MB 240-489974/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-489974/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-150940-2 MS	B-2_12.5-15	Total/NA	Solid	3540C	
240-150940-2 MSD	B-2_12.5-15	Total/NA	Solid	3540C	

Analysis Batch: 490449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	8270E	489974
240-150940-2	B-2_12.5-15	Total/NA	Solid	8270E	489974
240-150940-4	B-4_10-12.5	Total/NA	Solid	8270E	489974
240-150940-6	B-6_10-12.5	Total/NA	Solid	8270E	489974
240-150940-7	B-7_12.5-15	Total/NA	Solid	8270E	489974
240-150940-8	B-8_12.5-15	Total/NA	Solid	8270E	489974
MB 240-489974/23-A	Method Blank	Total/NA	Solid	8270E	489974
LCS 240-489974/24-A	Lab Control Sample	Total/NA	Solid	8270E	489974
240-150940-2 MS	B-2_12.5-15	Total/NA	Solid	8270E	489974

GC/MS Semi VOA (Continued)

Analysis Batch: 490449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-2 MSD	B-2_12.5-15	Total/NA	Solid	8270E	489974

Analysis Batch: 490662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-3	B-3_17.5-20	Total/NA	Solid	8270E	489974
240-150940-5	B-5_0-2.5	Total/NA	Solid	8270E	489974
240-150940-9	B-9_0-2.5	Total/NA	Solid	8270E	489974
240-150940-10	B-10_12.5-15	Total/NA	Solid	8270E	489974
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	8270E	489974
240-150940-12	B-11_2.5-5	Total/NA	Solid	8270E	489974
240-150940-13	B-12_10-12.5	Total/NA	Solid	8270E	489974

GC Semi VOA

Prep Batch: 489982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	3540C	
240-150940-2	B-2_12.5-15	Total/NA	Solid	3540C	
240-150940-3	B-3_17.5-20	Total/NA	Solid	3540C	
240-150940-4	B-4_10-12.5	Total/NA	Solid	3540C	
240-150940-5	B-5_0-2.5	Total/NA	Solid	3540C	
240-150940-6	B-6_10-12.5	Total/NA	Solid	3540C	
240-150940-7	B-7_12.5-15	Total/NA	Solid	3540C	
240-150940-8	B-8_12.5-15	Total/NA	Solid	3540C	
240-150940-9	B-9_0-2.5	Total/NA	Solid	3540C	
240-150940-10	B-10_12.5-15	Total/NA	Solid	3540C	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	3540C	
240-150940-12	B-11_2.5-5	Total/NA	Solid	3540C	
240-150940-13	B-12_10-12.5	Total/NA	Solid	3540C	
MB 240-489982/22-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-489982/23-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 490323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	8082A	489982
240-150940-2	B-2_12.5-15	Total/NA	Solid	8082A	489982
240-150940-3	B-3_17.5-20	Total/NA	Solid	8082A	489982
240-150940-4	B-4_10-12.5	Total/NA	Solid	8082A	489982
240-150940-5	B-5_0-2.5	Total/NA	Solid	8082A	489982
240-150940-6	B-6_10-12.5	Total/NA	Solid	8082A	489982
240-150940-7	B-7_12.5-15	Total/NA	Solid	8082A	489982
240-150940-8	B-8_12.5-15	Total/NA	Solid	8082A	489982
240-150940-9	B-9_0-2.5	Total/NA	Solid	8082A	489982
240-150940-10	B-10_12.5-15	Total/NA	Solid	8082A	489982
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	8082A	489982
240-150940-12	B-11_2.5-5	Total/NA	Solid	8082A	489982
240-150940-13	B-12_10-12.5	Total/NA	Solid	8082A	489982
MB 240-489982/22-A	Method Blank	Total/NA	Solid	8082A	489982
LCS 240-489982/23-A	Lab Control Sample	Total/NA	Solid	8082A	489982

QC Association Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Metals

Prep Batch: 490026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	3050B	
240-150940-2	B-2_12.5-15	Total/NA	Solid	3050B	
240-150940-3	B-3_17.5-20	Total/NA	Solid	3050B	
240-150940-4	B-4_10-12.5	Total/NA	Solid	3050B	
240-150940-5	B-5_0-2.5	Total/NA	Solid	3050B	
240-150940-6	B-6_10-12.5	Total/NA	Solid	3050B	
240-150940-7	B-7_12.5-15	Total/NA	Solid	3050B	
240-150940-8	B-8_12.5-15	Total/NA	Solid	3050B	
240-150940-9	B-9_0-2.5	Total/NA	Solid	3050B	
240-150940-10	B-10_12.5-15	Total/NA	Solid	3050B	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	3050B	
240-150940-12	B-11_2.5-5	Total/NA	Solid	3050B	
240-150940-13	B-12_10-12.5	Total/NA	Solid	3050B	
MB 240-490026/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-490026/2-A	Lab Control Sample	Total/NA	Solid	3050B	
240-150940-1 MS	B-1_4-6	Total/NA	Solid	3050B	
240-150940-1 MSD	B-1_4-6	Total/NA	Solid	3050B	

Prep Batch: 490038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	7471B	
240-150940-2	B-2_12.5-15	Total/NA	Solid	7471B	
240-150940-3	B-3_17.5-20	Total/NA	Solid	7471B	
240-150940-4	B-4_10-12.5	Total/NA	Solid	7471B	
240-150940-5	B-5_0-2.5	Total/NA	Solid	7471B	
240-150940-6	B-6_10-12.5	Total/NA	Solid	7471B	
240-150940-7	B-7_12.5-15	Total/NA	Solid	7471B	
240-150940-8	B-8_12.5-15	Total/NA	Solid	7471B	
240-150940-9	B-9_0-2.5	Total/NA	Solid	7471B	
240-150940-10	B-10_12.5-15	Total/NA	Solid	7471B	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	7471B	
240-150940-12	B-11_2.5-5	Total/NA	Solid	7471B	
240-150940-13	B-12_10-12.5	Total/NA	Solid	7471B	
MB 240-490038/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 240-490038/2-A	Lab Control Sample	Total/NA	Solid	7471B	
240-150940-1 MS	B-1_4-6	Total/NA	Solid	7471B	
240-150940-1 MSD	B-1_4-6	Total/NA	Solid	7471B	

Analysis Batch: 490062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	7471B	490038
240-150940-2	B-2_12.5-15	Total/NA	Solid	7471B	490038
240-150940-3	B-3_17.5-20	Total/NA	Solid	7471B	490038
240-150940-4	B-4_10-12.5	Total/NA	Solid	7471B	490038
240-150940-5	B-5_0-2.5	Total/NA	Solid	7471B	490038
240-150940-6	B-6_10-12.5	Total/NA	Solid	7471B	490038
240-150940-7	B-7_12.5-15	Total/NA	Solid	7471B	490038
240-150940-8	B-8_12.5-15	Total/NA	Solid	7471B	490038
240-150940-9	B-9_0-2.5	Total/NA	Solid	7471B	490038
240-150940-10	B-10_12.5-15	Total/NA	Solid	7471B	490038
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	7471B	490038

Metals (Continued)

Analysis Batch: 490062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-12	B-11_2.5-5	Total/NA	Solid	7471B	490038
240-150940-13	B-12_10-12.5	Total/NA	Solid	7471B	490038
MB 240-490038/1-A	Method Blank	Total/NA	Solid	7471B	490038
LCS 240-490038/2-A	Lab Control Sample	Total/NA	Solid	7471B	490038
240-150940-1 MS	B-1_4-6	Total/NA	Solid	7471B	490038
240-150940-1 MSD	B-1_4-6	Total/NA	Solid	7471B	490038

Analysis Batch: 490231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	6010D	490026
240-150940-2	B-2_12.5-15	Total/NA	Solid	6010D	490026
240-150940-3	B-3_17.5-20	Total/NA	Solid	6010D	490026
240-150940-4	B-4_10-12.5	Total/NA	Solid	6010D	490026
240-150940-5	B-5_0-2.5	Total/NA	Solid	6010D	490026
240-150940-6	B-6_10-12.5	Total/NA	Solid	6010D	490026
240-150940-7	B-7_12.5-15	Total/NA	Solid	6010D	490026
240-150940-8	B-8_12.5-15	Total/NA	Solid	6010D	490026
240-150940-9	B-9_0-2.5	Total/NA	Solid	6010D	490026
240-150940-10	B-10_12.5-15	Total/NA	Solid	6010D	490026
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	6010D	490026
240-150940-12	B-11_2.5-5	Total/NA	Solid	6010D	490026
240-150940-13	B-12_10-12.5	Total/NA	Solid	6010D	490026
MB 240-490026/1-A	Method Blank	Total/NA	Solid	6010D	490026
LCS 240-490026/2-A	Lab Control Sample	Total/NA	Solid	6010D	490026
240-150940-1 MS	B-1_4-6	Total/NA	Solid	6010D	490026
240-150940-1 MSD	B-1_4-6	Total/NA	Solid	6010D	490026

Analysis Batch: 490651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-2	B-2_12.5-15	Total/NA	Solid	6010D	490026
240-150940-4	B-4_10-12.5	Total/NA	Solid	6010D	490026
240-150940-5	B-5_0-2.5	Total/NA	Solid	6010D	490026
240-150940-7	B-7_12.5-15	Total/NA	Solid	6010D	490026
240-150940-10	B-10_12.5-15	Total/NA	Solid	6010D	490026

General Chemistry

Analysis Batch: 490043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-1	B-1_4-6	Total/NA	Solid	Moisture	
240-150940-2	B-2_12.5-15	Total/NA	Solid	Moisture	
240-150940-3	B-3_17.5-20	Total/NA	Solid	Moisture	
240-150940-4	B-4_10-12.5	Total/NA	Solid	Moisture	
240-150940-5	B-5_0-2.5	Total/NA	Solid	Moisture	
240-150940-6	B-6_10-12.5	Total/NA	Solid	Moisture	
240-150940-7	B-7_12.5-15	Total/NA	Solid	Moisture	
240-150940-8	B-8_12.5-15	Total/NA	Solid	Moisture	
240-150940-9	B-9_0-2.5	Total/NA	Solid	Moisture	
240-150940-10	B-10_12.5-15	Total/NA	Solid	Moisture	
240-150940-11	B-10-12.5-15 DUP	Total/NA	Solid	Moisture	
240-150940-12	B-11_2.5-5	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 490043 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150940-13	B-12_10-12.5	Total/NA	Solid	Moisture	
240-150940-9 DU	B-9_0-2.5	Total/NA	Solid	Moisture	

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-1_4-6
Date Collected: 06/07/21 10:35
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-1_4-6
Date Collected: 06/07/21 10:35
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-1
Matrix: Solid
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 14:08	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490449	06/14/21 15:44	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 15:16	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 15:22	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:09	SLD	TAL CAN

Client Sample ID: B-2_12.5-15
Date Collected: 06/07/21 11:25
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-2_12.5-15
Date Collected: 06/07/21 11:25
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-2
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 14:32	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490449	06/14/21 17:17	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 15:31	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 15:48	RKT	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		2	490651	06/14/21 20:02	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:16	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-3_17.5-20
Lab Sample ID: 240-150940-3

Date Collected: 06/07/21 12:10
Date Received: 06/08/21 15:25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-3_17.5-20
Lab Sample ID: 240-150940-3

Date Collected: 06/07/21 12:10
Date Received: 06/08/21 15:25
Matrix: Solid
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 14:57	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		20	490662	06/15/21 19:17	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 15:46	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 15:53	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:18	SLD	TAL CAN

Client Sample ID: B-4_10-12.5
Lab Sample ID: 240-150940-4

Date Collected: 06/07/21 12:45
Date Received: 06/08/21 15:25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-4_10-12.5
Lab Sample ID: 240-150940-4

Date Collected: 06/07/21 12:45
Date Received: 06/08/21 15:25
Matrix: Solid
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			490278	06/11/21 17:22	CS	TAL CAN
Total/NA	Analysis	8260D		1	490151	06/11/21 18:51	CS	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490449	06/14/21 16:07	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 16:01	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 15:57	RKT	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		2	490651	06/14/21 20:15	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:20	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-5_0-2.5
Date Collected: 06/07/21 13:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-5_0-2.5
Date Collected: 06/07/21 13:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-5
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 15:20	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		2.5	490662	06/15/21 18:54	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 16:15	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:10	RKT	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		5	490651	06/14/21 20:20	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:22	SLD	TAL CAN

Client Sample ID: B-6_10-12.5
Date Collected: 06/07/21 14:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-6_10-12.5
Date Collected: 06/07/21 14:30
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-6
Matrix: Solid
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 15:44	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490449	06/14/21 16:30	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 16:30	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:15	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:24	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-7_12.5-15
Date Collected: 06/07/21 14:55
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-7_12.5-15
Date Collected: 06/07/21 14:55
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-7
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 16:09	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490449	06/14/21 18:26	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 16:44	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:19	RKT	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		2	490651	06/14/21 20:24	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:31	SLD	TAL CAN

Client Sample ID: B-8_12.5-15
Date Collected: 06/07/21 15:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-8_12.5-15
Date Collected: 06/07/21 15:10
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-8
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 16:33	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490449	06/14/21 16:54	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 16:59	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:24	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:33	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-9_0-2.5
Date Collected: 06/07/21 15:40
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-9_0-2.5
Date Collected: 06/07/21 15:40
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-9
Matrix: Solid
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 16:57	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490662	06/15/21 17:22	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 17:13	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:28	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:35	SLD	TAL CAN

Client Sample ID: B-10_12.5-15
Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-10_12.5-15
Date Collected: 06/08/21 10:00
Date Received: 06/08/21 15:25

Lab Sample ID: 240-150940-10
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 17:21	TJL2	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490662	06/15/21 16:13	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 17:28	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:33	RKT	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		2	490651	06/14/21 20:28	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:37	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-10-12.5-15 DUP

Lab Sample ID: 240-150940-11
Date Collected: 06/08/21 10:00
Matrix: Solid
Date Received: 06/08/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-10-12.5-15 DUP

Lab Sample ID: 240-150940-11
Date Collected: 06/08/21 10:00
Matrix: Solid
Date Received: 06/08/21 15:25
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			489990	06/10/21 09:51	TJL2	TAL CAN
Total/NA	Analysis	8260D		1	489935	06/10/21 18:35	TJL2	TAL CAN
Total/NA	Prep	5030C			490278	06/11/21 17:22	CS	TAL CAN
Total/NA	Analysis	8260D		1	490151	06/11/21 20:05	CS	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490662	06/15/21 15:47	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 17:43	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:37	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:39	SLD	TAL CAN

Client Sample ID: B-11_2.5-5

Lab Sample ID: 240-150940-12
Date Collected: 06/08/21 11:05
Matrix: Solid
Date Received: 06/08/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-11_2.5-5

Lab Sample ID: 240-150940-12
Date Collected: 06/08/21 11:05
Matrix: Solid
Date Received: 06/08/21 15:25
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			490118	06/10/21 16:51	CS	TAL CAN
Total/NA	Analysis	8260D		1	490034	06/10/21 20:17	CS	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		4	490662	06/15/21 18:31	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 18:41	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:41	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:41	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Client Sample ID: B-12_10-12.5

Lab Sample ID: 240-150940-13
Date Collected: 06/08/21 11:45
Matrix: Solid
Date Received: 06/08/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490043	06/10/21 12:41	AJ	TAL CAN

Client Sample ID: B-12_10-12.5

Lab Sample ID: 240-150940-13
Date Collected: 06/08/21 11:45
Matrix: Solid
Date Received: 06/08/21 15:25
Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			490118	06/10/21 16:51	CS	TAL CAN
Total/NA	Analysis	8260D		1	490034	06/10/21 21:32	CS	TAL CAN
Total/NA	Prep	3540C			489974	06/10/21 08:56	EMB	TAL CAN
Total/NA	Analysis	8270E		1	490662	06/15/21 16:36	JMG	TAL CAN
Total/NA	Prep	3540C			489982	06/10/21 09:20	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490323	06/12/21 18:55	CSC	TAL CAN
Total/NA	Prep	3050B			490026	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490231	06/11/21 16:46	RKT	TAL CAN
Total/NA	Prep	7471B			490038	06/10/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490062	06/11/21 07:44	SLD	TAL CAN

Client Sample ID: B-1_GW 1

Lab Sample ID: 240-150940-14
Date Collected: 06/07/21 16:00
Matrix: Water
Date Received: 06/08/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	490214	06/11/21 14:31	HMB	TAL CAN

Client Sample ID: TB-0628

Lab Sample ID: 240-150940-15
Date Collected: 06/08/21 00:00
Matrix: Water
Date Received: 06/08/21 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	490214	06/11/21 14:54	HMB	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150940-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21 *
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

3.4/3.5

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Howell, Leslie	Carrier Tracking No(s):	COC No: 240-83709-32350.1
Client Contact: Kyle Lawrence	Phone:	E-Mail: Leslie.Howell@Eurofinset.com	State of Origin:	Page: Page 1 of 12 KL
Company: EnviroScience Inc	PWSID:			Job #:
Address: 5070 Stow Rd.	Due Date Requested:			
City: Stow	TAT Requested (days):			
State, Zip: OH, 44224	Compliance Project: Δ Yes Δ No			
Phone: 330-808-2386(Tel)	PO #: 12381			
Email: klawrence@enviroscienceinc.com	WO #:			
Project Name: Kyle Lawrence	Project #: 24018928			
Site: Middle Branch Phase II	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, 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)	8270E - PAH Analyte List	6010D, 7470A	8260D - TCL OLM03.1/4.2 Volatile Analyte List	8082A - Standard PCB List 9 Aroclors	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	N		
B-1_4-6	6.7.21	1035	G	S ~~Water~~ KL			X	X	X	X		
B-2_12.5-15		1125		S ~~Water~~ KL			X	X	X	X		
B-3_17.5-20		1210		S ~~Water~~ KL			X	X	X	X		
B-4_10-12.5		1245		S ~~Water~~ KL			X	X	X	X		
B-5_0-2.5		1330		S ~~Water~~ KL			X	X	X	X		
B-6_10-12.5		1430		S ~~Water~~ KL			X	X	X	X		
B-7_12.5-15		1455		S ~~Water~~ KL			X	X	X	X		
B-8_12.5-15		1510		S			X	X	X	X		
B-9_0-2.5		1540		S			X	X	X	X		
B-10_12.5-15	6.8.21	1000		S			X	X	X	X		
B-10-12.5-15 DUP		1000		S			X	X	X	X		

240-150940 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
Kyle Lawrence	6.8.21 1525	Enviroscience		6-8-21 1525	ETA

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

Ver: 11/01/2020

Chain of Custody Record

530409

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Address: _____

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

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: EnviroScience	Tel/Email:	Lab Contact:	Carrier:	2 of 2 COCs
Address: 5070 Stow Rd	Analysis Turnaround Time			Sampler:
City/State/Zip: Stow, OH 44224	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 330.808.2386	TAT if different from Below Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site: Middle Branch Phase II	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PAHs - 8270	Metals - 6010/7470	VOCs - 8260	PCBs - 8082	Sample Specific Notes:
B-11_2.5-5	6.8.21	11:05	g	S	2			X	X	X	X	
B-12_10-12.5	6.8.21	1145	g	S	2			X	X	X	X	
B-1_gw1	6.7.21	1600	g	W	3					X		
TB-0628	6.8.21	—	—	W	2					X		

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

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

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

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kyle Lawrence	EnviroScience	6.8.21 1525		EJA	6-8-21 1525
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 150940

Client Envirosciences Site Name _____

Cooler unpacked by: Matt

Cooler Received on 6-8-21 Opened on 6-9-21

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 74 Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 3.4 °C Corrected Cooler Temp. 3.5 °C
   IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
    If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC022887**
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-150999-1
Client Project/Site: Middle Branch Phase II

For:
EnviroScience Inc
5070 Stow Rd.
Stow, Ohio 44224

Attn: Kyle Lawrence

Authorized for release by:
6/22/2021 6:11:43 PM

Leslie Howell, Project Manager I
(330)966-9266
Leslie.Howell@Eurofinset.com

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

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

Table of Contents

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, low 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.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

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

Job ID: 240-150999-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-150999-1

Comments
No additional comments.

Receipt
The samples were received on 6/9/2021 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 4.1º C.

GC/MS VOA
Method 8260D: The samples B-13_0-2.5, B-14_7.5-10, PR1 and SS1, were taken from shelf C035 in the sample receiving refrigerator, if this jar was opened in another part of the lab it could have been contaminated.

Methods 8260C, 8260D: The MS/MSD for preparation batch 240-491029 and analytical batch 240-491000 was not analyzed due to instrument failure. The following samples are affected: B-13_0-2.5 and B-14_7.5-10

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-491000 was outside the method criteria for the following analytes: Bromomethane, Dichloro-difluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8260D: The laboratory control sample (LCS) for preparation batch 240-491029 and analytical batch 240-491000 recovered outside control limits for the following analytes: Chloroethane, Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Methods 8260C, 8260D: The continuing calibration verification (CCV) associated with batch 240-491082 recovered above the upper control limit for: 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 8260C, 8260D: The following sample was diluted due to the abundance of non-target analytes: PR1. Elevated reporting limits (RLs) are provided.

Methods 8260C, 8260D: The continuing calibration verification (CCV) associated with batch 240-491181 recovered above the upper control limit for Dichloro-difluoromethane, Trichlorofluoromethane, Chloromethane, Methylcyclohexane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Vinyl Chloride, 1,1-Dichloroethane, Carbon Tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS1, 240-150982-F-3-B, 240-150982-F-3-C MS and 240-150982-F-3-D MSD.

Method 8260D: Internal standard (ISTD) response for the following sample was outside control limits: 240-150982-F-3-B. The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Methods 8260C, 8260D: The laboratory control sample (LCS) for preparation batch 240-491029 and 240-491224 and analytical batch 240-491181 recovered outside control limits for the following analytes: Dichloro-difluoromethane, Chloromethane. 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
Method 8270E: The following sample was diluted due to the nature of the sample matrix: PR1. 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 Semi VOA

Job ID: 240-150999-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Method 8082A: Surrogate recovery for the following sample was outside control limits: B-13_0-2.5. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: B-13_0-2.5, B-14_7.5-10 and SS1.

Method 8082A: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: PR1.

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

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

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

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

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

Method Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010D	Metals (ICP)	SW846	TAL CAN
7471B	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3050B	Preparation, Metals	SW846	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN
7471B	Preparation, Mercury	SW846	TAL CAN

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:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-150999-1	B-13_0-2.5	Solid	06/09/21 09:30	06/09/21 12:20	
240-150999-2	B-14_7.5-10	Solid	06/09/21 10:20	06/09/21 12:20	
240-150999-3	PR1	Solid	06/09/21 11:10	06/09/21 12:20	
240-150999-4	SS1	Solid	06/09/21 11:20	06/09/21 12:20	

Detection Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-13_0-2.5 — Lab Sample ID: 240-150999-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.5	J	5.3	1.1	ug/Kg	1	☼	8260D	Total/NA
Methylene Chloride	63		26	13	ug/Kg	1	☼	8260D	Total/NA
Xylenes, Total	10	J	11	1.7	ug/Kg	1	☼	8260D	Total/NA
Acenaphthene	640		320	61	ug/Kg	20	☼	8270E	Total/NA
Acenaphthylene	810		320	86	ug/Kg	20	☼	8270E	Total/NA
Anthracene	3600		320	52	ug/Kg	20	☼	8270E	Total/NA
Benzo[a]anthracene	9400		320	73	ug/Kg	20	☼	8270E	Total/NA
Benzo[a]pyrene	7700		320	200	ug/Kg	20	☼	8270E	Total/NA
Benzo[b]fluoranthene	9400		320	140	ug/Kg	20	☼	8270E	Total/NA
Benzo[g,h,i]perylene	2700		320	150	ug/Kg	20	☼	8270E	Total/NA
Benzo[k]fluoranthene	4400		320	150	ug/Kg	20	☼	8270E	Total/NA
Chrysene	8700		320	32	ug/Kg	20	☼	8270E	Total/NA
Dibenz(a,h)anthracene	990		320	150	ug/Kg	20	☼	8270E	Total/NA
Fluoranthene	17000		320	95	ug/Kg	20	☼	8270E	Total/NA
Fluorene	940		320	59	ug/Kg	20	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2800		320	160	ug/Kg	20	☼	8270E	Total/NA
Naphthalene	610		320	52	ug/Kg	20	☼	8270E	Total/NA
Phenanthrene	14000		320	48	ug/Kg	20	☼	8270E	Total/NA
Pyrene	17000		320	46	ug/Kg	20	☼	8270E	Total/NA
Aroclor-1242	71		55	21	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1260	510		55	24	ug/Kg	1	☼	8082A	Total/NA
Barium	290		20	0.37	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.50	J	0.51	0.048	mg/Kg	1	☼	6010D	Total/NA
Chromium	47		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Silver	0.087	J	1.0	0.082	mg/Kg	1	☼	6010D	Total/NA
Arsenic	8.8		1.5	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	38		1.0	0.28	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.13	B	0.10	0.018	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-14_7.5-10 — Lab Sample ID: 240-150999-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	27	J	28	13	ug/Kg	1	☼	8260D	Total/NA
Acenaphthylene	5.7	J	17	4.5	ug/Kg	1	☼	8270E	Total/NA
Anthracene	4.4	J	17	2.7	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	25		17	3.8	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	26		17	10	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	37		17	7.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	11	J	17	7.9	ug/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	12	J	17	7.7	ug/Kg	1	☼	8270E	Total/NA
Chrysene	25		17	1.7	ug/Kg	1	☼	8270E	Total/NA
Fluoranthene	44		17	5.0	ug/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	10	J	17	8.2	ug/Kg	1	☼	8270E	Total/NA
Naphthalene	43		17	2.7	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	33		17	2.5	ug/Kg	1	☼	8270E	Total/NA
Pyrene	39		17	2.4	ug/Kg	1	☼	8270E	Total/NA
Barium	51		18	0.33	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.30	J	0.46	0.044	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		0.92	0.32	mg/Kg	1	☼	6010D	Total/NA
Arsenic	20		1.4	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	13		0.92	0.26	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-14_7.5-10 (Continued) — Lab Sample ID: 240-150999-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.031	J B	0.097	0.018	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: PR1 — Lab Sample ID: 240-150999-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	500	J	2300	360	ug/Kg	5	☼	8260D	Total/NA
Xylenes, Total	3800	J	4700	850	ug/Kg	5	☼	8260D	Total/NA
Acenaphthene	16000		8700	1700	ug/Kg	20	☼	8270E	Total/NA
Anthracene	4500	J	8700	1400	ug/Kg	20	☼	8270E	Total/NA
Benzo[a]anthracene	3100	J	8700	2000	ug/Kg	20	☼	8270E	Total/NA
Chrysene	4900	J	8700	870	ug/Kg	20	☼	8270E	Total/NA
Fluoranthene	5500	J	8700	2600	ug/Kg	20	☼	8270E	Total/NA
Fluorene	19000		8700	1600	ug/Kg	20	☼	8270E	Total/NA
Naphthalene	71000		8700	1400	ug/Kg	20	☼	8270E	Total/NA
Phenanthrene	38000		8700	1300	ug/Kg	20	☼	8270E	Total/NA
Pyrene	9800		8700	1200	ug/Kg	20	☼	8270E	Total/NA
Barium	4.7	J	21	0.38	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.055	J	0.52	0.050	mg/Kg	1	☼	6010D	Total/NA
Chromium	0.46	J	1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Lead	1.7		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS1 — Lab Sample ID: 240-150999-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	120		37	18	ug/Kg	1	☼	8260D	Total/NA
Acenaphthene	210		96	18	ug/Kg	4	☼	8270E	Total/NA
Acenaphthylene	30	J	96	26	ug/Kg	4	☼	8270E	Total/NA
Anthracene	590		96	15	ug/Kg	4	☼	8270E	Total/NA
Benzo[a]anthracene	2400		96	22	ug/Kg	4	☼	8270E	Total/NA
Benzo[a]pyrene	2500		96	60	ug/Kg	4	☼	8270E	Total/NA
Benzo[b]fluoranthene	3200		96	42	ug/Kg	4	☼	8270E	Total/NA
Benzo[g,h,i]perylene	1000		96	45	ug/Kg	4	☼	8270E	Total/NA
Benzo[k]fluoranthene	1400		96	44	ug/Kg	4	☼	8270E	Total/NA
Chrysene	2400		96	9.5	ug/Kg	4	☼	8270E	Total/NA
Dibenz(a,h)anthracene	300		96	44	ug/Kg	4	☼	8270E	Total/NA
Fluoranthene	4800		96	28	ug/Kg	4	☼	8270E	Total/NA
Fluorene	160		96	18	ug/Kg	4	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	990		96	47	ug/Kg	4	☼	8270E	Total/NA
Naphthalene	140		96	15	ug/Kg	4	☼	8270E	Total/NA
Phenanthrene	2300		96	14	ug/Kg	4	☼	8270E	Total/NA
Pyrene	4600		96	14	ug/Kg	4	☼	8270E	Total/NA
Barium	84		28	0.51	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.78		0.70	0.067	mg/Kg	1	☼	6010D	Total/NA
Chromium	58		1.4	0.48	mg/Kg	1	☼	6010D	Total/NA
Arsenic	13		2.1	0.44	mg/Kg	1	☼	6010D	Total/NA
Lead	150		1.4	0.40	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.72	J	2.8	0.66	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.095	J B	0.17	0.031	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-13_0-2.5

Date Collected: 06/09/21 09:30
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-1

Matrix: Solid
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.9		5.3	1.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,1,2,2-Tetrachloroethane	<1.5		5.3	1.5	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.3	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,1,2-Trichloroethane	<1.2		5.3	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,1-Dichloroethane	<0.73		5.3	0.73	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,1-Dichloroethene	<1.9		5.3	1.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,2,4-Trichlorobenzene	<2.6		5.3	2.6	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,2-Dibromo-3-Chloropropane	<3.8		11	3.8	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Ethylene Dibromide	<0.81		5.3	0.81	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,2-Dichlorobenzene	<1.2		5.3	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,2-Dichloroethane	<0.81		5.3	0.81	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,2-Dichloropropane	<0.89		5.3	0.89	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,3-Dichlorobenzene	<0.86		5.3	0.86	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
1,4-Dichlorobenzene	<0.93		5.3	0.93	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
2-Butanone (MEK)	<3.7		21	3.7	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
2-Hexanone	<4.3		21	4.3	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
4-Methyl-2-pentanone (MIBK)	<3.9		21	3.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Acetone	<22		26	22	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Benzene	<0.73		5.3	0.73	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Dichlorobromomethane	<1.6		5.3	1.6	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Bromoform	<2.5		5.3	2.5	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Bromomethane	<4.4	*+	5.3	4.4	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Carbon disulfide	<1.2		5.3	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Carbon tetrachloride	<3.4		5.3	3.4	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Chlorobenzene	<0.96		5.3	0.96	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Chloroethane	<2.9	*+	5.3	2.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Chloroform	<0.83		5.3	0.83	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Chloromethane	<2.4		5.3	2.4	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
cis-1,2-Dichloroethene	<1.6		5.3	1.6	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
cis-1,3-Dichloropropene	<3.0		5.3	3.0	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Cyclohexane	<1.4		11	1.4	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Chlorodibromomethane	<2.9		5.3	2.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Dichlorodifluoromethane	<0.99		5.3	0.99	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Ethylbenzene	**1.5**	**J**	5.3	1.1	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Isopropylbenzene	<2.0		5.3	2.0	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Methyl acetate	<3.6		26	3.6	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Methyl tert-butyl ether	<2.1		5.3	2.1	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Methylcyclohexane	<1.3		11	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Methylene Chloride	**63**		26	13	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Styrene	<1.2		5.3	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Tetrachloroethene	<0.77		5.3	0.77	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Toluene	<0.81		5.3	0.81	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
trans-1,2-Dichloroethene	<1.5		5.3	1.5	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
trans-1,3-Dichloropropene	<3.9		5.3	3.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Trichloroethene	<0.66		5.3	0.66	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Trichlorofluoromethane	<2.8		5.3	2.8	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Vinyl chloride	<1.9		5.3	1.9	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1
Xylenes, Total	**10**	**J**	11	1.7	ug/Kg	☼	06/16/21 19:24	06/17/21 02:45	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-13_0-2.5

Date Collected: 06/09/21 09:30
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-1

Matrix: Solid
Percent Solids: 94.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		64 - 124	06/16/21 19:24	06/17/21 02:45	1
Dibromofluoromethane (Surr)	90		56 - 122	06/16/21 19:24	06/17/21 02:45	1
4-Bromofluorobenzene (Surr)	114		51 - 127	06/16/21 19:24	06/17/21 02:45	1
1,2-Dichloroethane-d4 (Surr)	96		59 - 120	06/16/21 19:24	06/17/21 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**640**		320	61	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Acenaphthylene	**810**		320	86	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Anthracene	**3600**		320	52	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Benzo[a]anthracene	**9400**		320	73	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Benzo[a]pyrene	**7700**		320	200	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Benzo[b]fluoranthene	**9400**		320	140	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Benzo[g,h,i]perylene	**2700**		320	150	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Benzo[k]fluoranthene	**4400**		320	150	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Chrysene	**8700**		320	32	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Dibenz(a,h)anthracene	**990**		320	150	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Fluoranthene	**17000**		320	95	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Fluorene	**940**		320	59	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Indeno[1,2,3-cd]pyrene	**2800**		320	160	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Naphthalene	**610**		320	52	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Phenanthrene	**14000**		320	48	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20
Pyrene	**17000**		320	46	ug/Kg	☼	06/11/21 08:36	06/18/21 21:30	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	88		39 - 120	06/11/21 08:36	06/18/21 21:30	20
Phenol-d5 (Surr)	66		28 - 120	06/11/21 08:36	06/18/21 21:30	20
Nitrobenzene-d5 (Surr)	69		28 - 120	06/11/21 08:36	06/18/21 21:30	20
2-Fluorophenol (Surr)	70		26 - 120	06/11/21 08:36	06/18/21 21:30	20
2-Fluorobiphenyl (Surr)	71		35 - 120	06/11/21 08:36	06/18/21 21:30	20
2,4,6-Tribromophenol (Surr)	0	S1-	10 - 120	06/11/21 08:36	06/18/21 21:30	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<24		55	24	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1221	<26		55	26	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1232	<25		55	25	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1242	**71**		55	21	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1248	<26		55	26	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1254	<25		55	25	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1260	**510**		55	24	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1262	<34		55	34	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1
Aroclor-1268	<25		55	25	ug/Kg	☼	06/15/21 10:39	06/16/21 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111		14 - 128	06/15/21 10:39	06/16/21 20:10	1
DCB Decachlorobiphenyl	223	S1+	10 - 132	06/15/21 10:39	06/16/21 20:10	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**290**		20	0.37	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-13_0-2.5

Date Collected: 06/09/21 09:30
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-1

Matrix: Solid
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	J	0.51	0.048	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1
Chromium	47		1.0	0.35	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1
Silver	0.087	J	1.0	0.082	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1
Arsenic	8.8		1.5	0.32	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1
Lead	38		1.0	0.28	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1
Selenium	<0.47		2.0	0.47	mg/Kg	☼	06/11/21 14:00	06/14/21 16:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13	B	0.10	0.018	mg/Kg	☼	06/11/21 14:00	06/15/21 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.3		0.1	0.1	%			06/11/21 11:48	1
Percent Moisture	5.7		0.1	0.1	%			06/11/21 11:48	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-14_7.5-10

Date Collected: 06/09/21 10:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-2

Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		5.5	2.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,1,2,2-Tetrachloroethane	<1.6		5.5	1.6	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.4		5.5	1.4	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,1,2-Trichloroethane	<1.3		5.5	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,1-Dichloroethane	<0.77		5.5	0.77	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,1-Dichloroethene	<2.0		5.5	2.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,2,4-Trichlorobenzene	<2.8		5.5	2.8	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,2-Dibromo-3-Chloropropane	<4.0		11	4.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Ethylene Dibromide	<0.85		5.5	0.85	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,2-Dichlorobenzene	<1.2		5.5	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,2-Dichloroethane	<0.85		5.5	0.85	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,2-Dichloropropane	<0.94		5.5	0.94	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,3-Dichlorobenzene	<0.90		5.5	0.90	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
1,4-Dichlorobenzene	<0.98		5.5	0.98	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
2-Butanone (MEK)	<3.9		22	3.9	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
2-Hexanone	<4.5		22	4.5	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
4-Methyl-2-pentanone (MIBK)	<4.1		22	4.1	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Acetone	<23		28	23	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Benzene	<0.77		5.5	0.77	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Dichlorobromomethane	<1.7		5.5	1.7	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Bromoform	<2.7		5.5	2.7	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Bromomethane	<4.6	*+	5.5	4.6	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Carbon disulfide	<1.3		5.5	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Carbon tetrachloride	<3.6		5.5	3.6	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Chlorobenzene	<1.0		5.5	1.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Chloroethane	<3.0	*+	5.5	3.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Chloroform	<0.87		5.5	0.87	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Chloromethane	<2.5		5.5	2.5	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
cis-1,2-Dichloroethene	<1.6		5.5	1.6	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
cis-1,3-Dichloropropene	<3.2		5.5	3.2	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Cyclohexane	<1.5		11	1.5	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Chlorodibromomethane	<3.1		5.5	3.1	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Dichlorodifluoromethane	<1.0		5.5	1.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Ethylbenzene	<1.2		5.5	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Isopropylbenzene	<2.1		5.5	2.1	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Methyl acetate	<3.8		28	3.8	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Methyl tert-butyl ether	<2.2		5.5	2.2	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Methylcyclohexane	<1.4		11	1.4	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Methylene Chloride	**27**	**J**	28	13	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Styrene	<1.3		5.5	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Tetrachloroethene	<0.81		5.5	0.81	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Toluene	<0.86		5.5	0.86	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
trans-1,2-Dichloroethene	<1.6		5.5	1.6	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
trans-1,3-Dichloropropene	<4.1		5.5	4.1	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Trichloroethene	<0.70		5.5	0.70	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Trichlorofluoromethane	<3.0		5.5	3.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Vinyl chloride	<2.0		5.5	2.0	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1
Xylenes, Total	<1.8		11	1.8	ug/Kg	☼	06/16/21 19:24	06/17/21 03:10	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-14_7.5-10

Date Collected: 06/09/21 10:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-2

Matrix: Solid
Percent Solids: 89.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		64 - 124	06/16/21 19:24	06/17/21 03:10	1
Dibromofluoromethane (Surr)	90		56 - 122	06/16/21 19:24	06/17/21 03:10	1
4-Bromofluorobenzene (Surr)	97		51 - 127	06/16/21 19:24	06/17/21 03:10	1
1,2-Dichloroethane-d4 (Surr)	98		59 - 120	06/16/21 19:24	06/17/21 03:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.2		17	3.2	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Acenaphthylene	**5.7**	**J**	17	4.5	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Anthracene	**4.4**	**J**	17	2.7	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Benzo[a]anthracene	**25**		17	3.8	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Benzo[a]pyrene	**26**		17	10	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Benzo[b]fluoranthene	**37**		17	7.2	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Benzo[g,h,i]perylene	**11**	**J**	17	7.9	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Benzo[k]fluoranthene	**12**	**J**	17	7.7	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Chrysene	**25**		17	1.7	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Dibenz(a,h)anthracene	<7.7		17	7.7	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Fluoranthene	**44**		17	5.0	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Fluorene	<3.0		17	3.0	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Indeno[1,2,3-cd]pyrene	**10**	**J**	17	8.2	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Naphthalene	**43**		17	2.7	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Phenanthrene	**33**		17	2.5	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1
Pyrene	**39**		17	2.4	ug/Kg	☼	06/11/21 08:36	06/18/21 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	81		39 - 120	06/11/21 08:36	06/18/21 21:04	1
Phenol-d5 (Surr)	59		28 - 120	06/11/21 08:36	06/18/21 21:04	1
Nitrobenzene-d5 (Surr)	59		28 - 120	06/11/21 08:36	06/18/21 21:04	1
2-Fluorophenol (Surr)	53		26 - 120	06/11/21 08:36	06/18/21 21:04	1
2-Fluorobiphenyl (Surr)	63		35 - 120	06/11/21 08:36	06/18/21 21:04	1
2,4,6-Tribromophenol (Surr)	42		10 - 120	06/11/21 08:36	06/18/21 21:04	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<25		58	25	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1221	<28		58	28	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1232	<27		58	27	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1242	<22		58	22	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1248	<28		58	28	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1254	<27		58	27	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1260	<25		58	25	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1262	<36		58	36	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1
Aroclor-1268	<27		58	27	ug/Kg	☼	06/15/21 10:39	06/16/21 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		14 - 128	06/15/21 10:39	06/16/21 20:24	1
DCB Decachlorobiphenyl	63		10 - 132	06/15/21 10:39	06/16/21 20:24	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**51**		18	0.33	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-14_7.5-10

Date Collected: 06/09/21 10:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-2

Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.30	J	0.46	0.044	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1
Chromium	15		0.92	0.32	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1
Silver	<0.075		0.92	0.075	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1
Arsenic	20		1.4	0.29	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1
Lead	13		0.92	0.26	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1
Selenium	<0.43		1.8	0.43	mg/Kg	☼	06/11/21 14:00	06/14/21 16:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	J B	0.097	0.018	mg/Kg	☼	06/11/21 14:00	06/15/21 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.4		0.1	0.1	%			06/11/21 11:48	1
Percent Moisture	10.6		0.1	0.1	%			06/11/21 11:48	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: PR1

Date Collected: 06/09/21 11:10
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-3

Matrix: Solid
Percent Solids: 68.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<730		2300	730	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,1,2,2-Tetrachloroethane	<1400		2300	1400	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,1,2-Trichloro-1,2,2-trifluoroethane	<630		2300	630	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,1,2-Trichloroethane	<530		2300	530	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,1-Dichloroethane	<450		2300	450	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,1-Dichloroethene	<770		2300	770	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,2,4-Trichlorobenzene	<1200		2300	1200	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,2-Dibromo-3-Chloropropane	<2100		4700	2100	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Ethylene Dibromide	<740		2300	740	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,2-Dichlorobenzene	<1100		2300	1100	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,2-Dichloroethane	<440		2300	440	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,2-Dichloropropane	<350		2300	350	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,3-Dichlorobenzene	<430		2300	430	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
1,4-Dichlorobenzene	<520		2300	520	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
2-Butanone (MEK)	<1500		9400	1500	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
2-Hexanone	<2500		9400	2500	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
4-Methyl-2-pentanone (MIBK)	<2200		9400	2200	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Acetone	<2300		9400	2300	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Benzene	<390		2300	390	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Dichlorobromomethane	<570		2300	570	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Bromoform	<2100		2300	2100	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Bromomethane	<1600		2300	1600	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Carbon disulfide	<1000		2300	1000	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Carbon tetrachloride	<960		2300	960	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Chlorobenzene	<330		2300	330	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Chloroethane	<1400		2300	1400	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Chloroform	<510		2300	510	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Chloromethane	<620		2300	620	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
cis-1,2-Dichloroethene	<370		2300	370	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
cis-1,3-Dichloropropene	<1200		2300	1200	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Cyclohexane	<1500		4700	1500	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Chlorodibromomethane	<1100		2300	1100	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Dichlorodifluoromethane	<500		2300	500	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Ethylbenzene	<440		2300	440	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Isopropylbenzene	**500**	**J**	2300	360	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Methyl acetate	<1600		12000	1600	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Methyl tert-butyl ether	<350		2300	350	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Methylcyclohexane	<620		4700	620	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Methylene Chloride	<3600		4700	3600	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Styrene	<490		2300	490	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Tetrachloroethene	<910		2300	910	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Toluene	<2200		2300	2200	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
trans-1,2-Dichloroethene	<580		2300	580	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
trans-1,3-Dichloropropene	<980		2300	980	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Trichloroethene	<1300		2300	1300	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Trichlorofluoromethane	<1300		2300	1300	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Vinyl chloride	<1200		2300	1200	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5
Xylenes, Total	**3800**	**J**	4700	850	ug/Kg	☼	06/16/21 21:47	06/17/21 14:27	5

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: PR1

Date Collected: 06/09/21 11:10
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-3

Matrix: Solid
Percent Solids: 68.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	48	S1-	64 - 124	06/16/21 21:47	06/17/21 14:27	5
Dibromofluoromethane (Surr)	79		56 - 122	06/16/21 21:47	06/17/21 14:27	5
4-Bromofluorobenzene (Surr)	75		51 - 127	06/16/21 21:47	06/17/21 14:27	5
1,2-Dichloroethane-d4 (Surr)	78		59 - 120	06/16/21 21:47	06/17/21 14:27	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**16000**		8700	1700	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Acenaphthylene	<2300		8700	2300	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Anthracene	**4500**	**J**	8700	1400	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Benzo[a]anthracene	**3100**	**J**	8700	2000	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Benzo[a]pyrene	<5400		8700	5400	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Benzo[b]fluoranthene	<3800		8700	3800	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Benzo[g,h,i]perylene	<4100		8700	4100	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Benzo[k]fluoranthene	<4000		8700	4000	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Chrysene	**4900**	**J**	8700	870	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Dibenz(a,h)anthracene	<4000		8700	4000	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Fluoranthene	**5500**	**J**	8700	2600	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Fluorene	**19000**		8700	1600	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Indeno[1,2,3-cd]pyrene	<4300		8700	4300	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Naphthalene	**71000**		8700	1400	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Phenanthrene	**38000**		8700	1300	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20
Pyrene	**9800**		8700	1200	ug/Kg	☼	06/11/21 08:36	06/18/21 22:21	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	56		39 - 120	06/11/21 08:36	06/18/21 22:21	20
Phenol-d5 (Surr)	37		28 - 120	06/11/21 08:36	06/18/21 22:21	20
Nitrobenzene-d5 (Surr)	70		28 - 120	06/11/21 08:36	06/18/21 22:21	20
2-Fluorophenol (Surr)	49		26 - 120	06/11/21 08:36	06/18/21 22:21	20
2-Fluorobiphenyl (Surr)	64		35 - 120	06/11/21 08:36	06/18/21 22:21	20
2,4,6-Tribromophenol (Surr)	0	S1-	10 - 120	06/11/21 08:36	06/18/21 22:21	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<150		350	150	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1221	<170		350	170	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1232	<160		350	160	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1242	<130		350	130	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1248	<170		350	170	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1254	<160		350	160	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1260	<150		350	150	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1262	<220		350	220	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5
Aroclor-1268	<160		350	160	ug/Kg	☼	06/17/21 12:23	06/18/21 15:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		14 - 128	06/17/21 12:23	06/18/21 15:43	5
DCB Decachlorobiphenyl	64	p	10 - 132	06/17/21 12:23	06/18/21 15:43	5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**4.7**	**J**	21	0.38	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: PR1

Date Collected: 06/09/21 11:10
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-3

Matrix: Solid
Percent Solids: 68.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.055**	**J**	0.52	0.050	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1
Chromium	**0.46**	**J**	1.0	0.36	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1
Silver	<0.085		1.0	0.085	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1
Arsenic	<0.33		1.6	0.33	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1
Lead	**1.7**		1.0	0.30	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1
Selenium	<0.49		2.1	0.49	mg/Kg	☼	06/11/21 14:00	06/14/21 16:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.031		0.17	0.031	mg/Kg	☼	06/11/21 14:00	06/15/21 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**68.6**		0.1	0.1	%			06/11/21 11:48	1
Percent Moisture	**31.4**		0.1	0.1	%			06/11/21 11:48	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: SS1

Date Collected: 06/09/21 11:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-4

Matrix: Solid
Percent Solids: 61.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.6		7.3	2.6	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,1,2,2-Tetrachloroethane	<2.1		7.3	2.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.9		7.3	1.9	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,1,2-Trichloroethane	<1.7		7.3	1.7	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,1-Dichloroethane	<1.0		7.3	1.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,1-Dichloroethene	<2.7		7.3	2.7	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,2,4-Trichlorobenzene	<3.7		7.3	3.7	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,2-Dibromo-3-Chloropropane	<5.3		15	5.3	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Ethylene Dibromide	<1.1		7.3	1.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,2-Dichlorobenzene	<1.6		7.3	1.6	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,2-Dichloroethane	<1.1		7.3	1.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,2-Dichloropropane	<1.3		7.3	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,3-Dichlorobenzene	<1.2		7.3	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
1,4-Dichlorobenzene	<1.3		7.3	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
2-Butanone (MEK)	<5.2		29	5.2	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
2-Hexanone	<6.0		29	6.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
4-Methyl-2-pentanone (MIBK)	<5.5		29	5.5	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Acetone	<31		37	31	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Benzene	<1.0		7.3	1.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Dichlorobromomethane	<2.2		7.3	2.2	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Bromoform	<3.5		7.3	3.5	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Bromomethane	<6.1		7.3	6.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Carbon disulfide	<1.7		7.3	1.7	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Carbon tetrachloride	<4.8		7.3	4.8	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Chlorobenzene	<1.3		7.3	1.3	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Chloroethane	<4.0		7.3	4.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Chloroform	<1.2		7.3	1.2	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Chloromethane	<3.3	*+	7.3	3.3	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
cis-1,2-Dichloroethene	<2.2		7.3	2.2	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
cis-1,3-Dichloropropene	<4.2		7.3	4.2	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Cyclohexane	<2.0		15	2.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Chlorodibromomethane	<4.1		7.3	4.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Dichlorodifluoromethane	<1.4	*+	7.3	1.4	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Ethylbenzene	<1.5		7.3	1.5	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Isopropylbenzene	<2.8		7.3	2.8	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Methyl acetate	<5.0		37	5.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Methyl tert-butyl ether	<2.9		7.3	2.9	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Methylcyclohexane	<1.8		15	1.8	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Methylene Chloride	**120**		37	18	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Styrene	<1.7		7.3	1.7	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Tetrachloroethene	<1.1		7.3	1.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Toluene	<1.1		7.3	1.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
trans-1,2-Dichloroethene	<2.1		7.3	2.1	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
trans-1,3-Dichloropropene	<5.5		7.3	5.5	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Trichloroethene	<0.93		7.3	0.93	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Trichlorofluoromethane	<4.0		7.3	4.0	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Vinyl chloride	<2.6		7.3	2.6	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1
Xylenes, Total	<2.3		15	2.3	ug/Kg	☼	06/16/21 19:24	06/17/21 20:13	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: SS1

Date Collected: 06/09/21 11:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-4

Matrix: Solid
Percent Solids: 61.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		64 - 124	06/16/21 19:24	06/17/21 20:13	1
Dibromofluoromethane (Surr)	99		56 - 122	06/16/21 19:24	06/17/21 20:13	1
4-Bromofluorobenzene (Surr)	108		51 - 127	06/16/21 19:24	06/17/21 20:13	1
1,2-Dichloroethane-d4 (Surr)	99		59 - 120	06/16/21 19:24	06/17/21 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	210		96	18	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Acenaphthylene	30	J	96	26	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Anthracene	590		96	15	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Benzo[a]anthracene	2400		96	22	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Benzo[a]pyrene	2500		96	60	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Benzo[b]fluoranthene	3200		96	42	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Benzo[g,h,i]perylene	1000		96	45	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Benzo[k]fluoranthene	1400		96	44	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Chrysene	2400		96	9.5	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Dibenz(a,h)anthracene	300		96	44	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Fluoranthene	4800		96	28	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Fluorene	160		96	18	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Indeno[1,2,3-cd]pyrene	990		96	47	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Naphthalene	140		96	15	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Phenanthrene	2300		96	14	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4
Pyrene	4600		96	14	ug/Kg	☼	06/11/21 08:36	06/18/21 21:55	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	73		39 - 120	06/11/21 08:36	06/18/21 21:55	4
Phenol-d5 (Surr)	71		28 - 120	06/11/21 08:36	06/18/21 21:55	4
Nitrobenzene-d5 (Surr)	67		28 - 120	06/11/21 08:36	06/18/21 21:55	4
2-Fluorophenol (Surr)	58		26 - 120	06/11/21 08:36	06/18/21 21:55	4
2-Fluorobiphenyl (Surr)	67		35 - 120	06/11/21 08:36	06/18/21 21:55	4
2,4,6-Tribromophenol (Surr)	36		10 - 120	06/11/21 08:36	06/18/21 21:55	4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<37		83	37	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1221	<40		83	40	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1232	<38		83	38	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1242	<32		83	32	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1248	<40		83	40	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1254	<38		83	38	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1260	<37		83	37	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1262	<52		83	52	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1
Aroclor-1268	<38		83	38	ug/Kg	☼	06/15/21 10:39	06/16/21 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		14 - 128	06/15/21 10:39	06/16/21 20:39	1
DCB Decachlorobiphenyl	77		10 - 132	06/15/21 10:39	06/16/21 20:39	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	84		28	0.51	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: SS1

Date Collected: 06/09/21 11:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-4

Matrix: Solid
Percent Solids: 61.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.78		0.70	0.067	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1
Chromium	58		1.4	0.48	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1
Silver	<0.11		1.4	0.11	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1
Arsenic	13		2.1	0.44	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1
Lead	150		1.4	0.40	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1
Selenium	0.72	J	2.8	0.66	mg/Kg	☼	06/11/21 14:00	06/14/21 16:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.095	J B	0.17	0.031	mg/Kg	☼	06/11/21 14:00	06/15/21 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	61.9		0.1	0.1	%			06/11/21 11:48	1
Percent Moisture	38.1		0.1	0.1	%			06/11/21 11:48	1

Surrogate Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(64-124)	(56-122)	(51-127)	(59-120)
240-150999-1	B-13_0-2.5	99	90	114	96
240-150999-2	B-14_7.5-10	95	90	97	98
240-150999-3	PR1	48 S1-	79	75	78
240-150999-4	SS1	104	99	108	99
LCS 240-491000/4	Lab Control Sample	97	97	91	86
LCS 240-491035/2-A	Lab Control Sample	83	93	89	89
LCS 240-491181/5	Lab Control Sample	98	96	93	89
MB 240-490292/1-A	Method Blank	81	88	86	92
MB 240-491000/5	Method Blank	96	103	100	99
MB 240-491035/1-A	Method Blank	84	83	86	90
MB 240-491181/6	Method Blank	97	98	94	96

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TPHL	PHL	NBZ	2FP	FBP	TBP
Lab Sample ID	Client Sample ID	(39-120)	(28-120)	(28-120)	(26-120)	(35-120)	(10-120)
240-150999-1	B-13_0-2.5	88	66	69	70	71	0 S1-
240-150999-2	B-14_7.5-10	81	59	59	53	63	42
240-150999-3	PR1	56	37	70	49	64	0 S1-
240-150999-4	SS1	73	71	67	58	67	36
LCS 240-490177/24-A	Lab Control Sample	90	74	77	73	71	75
MB 240-490177/23-A	Method Blank	82	64	62	62	65	54

Surrogate Legend

TPHL = Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(14-128)	(10-132)
240-150999-1	B-13_0-2.5	111	223 S1+
240-150999-2	B-14_7.5-10	71	63
240-150999-3	PR1	114	64 p
240-150999-4	SS1	57	77
LCS 240-490715/24-A	Lab Control Sample	93	99
LCS 240-491178/24-A	Lab Control Sample	87	108

Surrogate Summary

Client: EnviroScience Inc
Job ID: 240-150999-1
Project/Site: Middle Branch Phase II

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**TCX2 (14-128)**	**DCBP2 (10-132)**						
MB 240-490715/23-A	Method Blank	88	100						
MB 240-491178/23-A	Method Blank	97	106						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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

Lab Sample ID: MB 240-490292/1-A
Matrix: Solid
Analysis Batch: 491082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<78		250	78	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,1,2,2-Tetrachloroethane	<150		250	150	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<67		250	67	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,1,2-Trichloroethane	<57		250	57	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,1-Dichloroethane	<48		250	48	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,1-Dichloroethene	<82		250	82	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,2,4-Trichlorobenzene	<130		250	130	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,2-Dibromo-3-Chloropropane	<220		500	220	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Ethylene Dibromide	<79		250	79	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,2-Dichlorobenzene	<120		250	120	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,2-Dichloroethane	<47		250	47	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,2-Dichloropropane	<37		250	37	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,3-Dichlorobenzene	<46		250	46	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
1,4-Dichlorobenzene	<55		250	55	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
2-Butanone (MEK)	<160		1000	160	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
2-Hexanone	<260		1000	260	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
4-Methyl-2-pentanone (MIBK)	<240		1000	240	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Acetone	<240		1000	240	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Benzene	<42		250	42	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Dichlorobromomethane	<61		250	61	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Bromoform	<230		250	230	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Bromomethane	<170		250	170	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Carbon disulfide	<110		250	110	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Carbon tetrachloride	<100		250	100	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Chlorobenzene	<35		250	35	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Chloroethane	<150		250	150	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Chloroform	<54		250	54	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Chloromethane	<66		250	66	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
cis-1,2-Dichloroethene	<40		250	40	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
cis-1,3-Dichloropropene	<120		250	120	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Cyclohexane	<160		500	160	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Chlorodibromomethane	<120		250	120	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Dichlorodifluoromethane	<53		250	53	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Ethylbenzene	<47		250	47	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Isopropylbenzene	<38		250	38	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Methyl acetate	<170		1300	170	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Methyl tert-butyl ether	<37		250	37	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Methylcyclohexane	<66		500	66	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Methylene Chloride	<380		500	380	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Styrene	<52		250	52	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Tetrachloroethene	<97		250	97	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Toluene	<240		250	240	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
trans-1,2-Dichloroethene	<62		250	62	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
trans-1,3-Dichloropropene	<110		250	110	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Trichloroethene	<140		250	140	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Trichlorofluoromethane	<140		250	140	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Vinyl chloride	<120		250	120	ug/Kg		06/12/21 00:08	06/17/21 10:23	1
Xylenes, Total	<91		500	91	ug/Kg		06/12/21 00:08	06/17/21 10:23	1

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

Lab Sample ID: MB 240-490292/1-A
Matrix: Solid
Analysis Batch: 491082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490292

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	81		64 - 124	06/12/21 00:08	06/17/21 10:23	1
Dibromofluoromethane (Surr)	88		56 - 122	06/12/21 00:08	06/17/21 10:23	1
4-Bromofluorobenzene (Surr)	86		51 - 127	06/12/21 00:08	06/17/21 10:23	1
1,2-Dichloroethane-d4 (Surr)	92		59 - 120	06/12/21 00:08	06/17/21 10:23	1

Lab Sample ID: MB 240-491000/5
Matrix: Solid
Analysis Batch: 491000

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-Trichloroethane	<1.8		5.0	1.8	ug/Kg			06/16/21 18:29	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			06/16/21 18:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			06/16/21 18:29	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			06/16/21 18:29	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			06/16/21 18:29	1
1,1-Dichloroethene	<1.8		5.0	1.8	ug/Kg			06/16/21 18:29	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			06/16/21 18:29	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			06/16/21 18:29	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			06/16/21 18:29	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			06/16/21 18:29	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			06/16/21 18:29	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			06/16/21 18:29	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			06/16/21 18:29	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			06/16/21 18:29	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			06/16/21 18:29	1
2-Hexanone	<4.1		20	4.1	ug/Kg			06/16/21 18:29	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			06/16/21 18:29	1
Acetone	<21		25	21	ug/Kg			06/16/21 18:29	1
Benzene	<0.70		5.0	0.70	ug/Kg			06/16/21 18:29	1
Dichlorobromomethane	<1.5		5.0	1.5	ug/Kg			06/16/21 18:29	1
Bromoform	<2.4		5.0	2.4	ug/Kg			06/16/21 18:29	1
Bromomethane	<4.2		5.0	4.2	ug/Kg			06/16/21 18:29	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			06/16/21 18:29	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			06/16/21 18:29	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			06/16/21 18:29	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			06/16/21 18:29	1
Chloroform	<0.79		5.0	0.79	ug/Kg			06/16/21 18:29	1
Chloromethane	<2.3		5.0	2.3	ug/Kg			06/16/21 18:29	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			06/16/21 18:29	1
cis-1,3-Dichloropropene	<2.9		5.0	2.9	ug/Kg			06/16/21 18:29	1
Cyclohexane	<1.4		10	1.4	ug/Kg			06/16/21 18:29	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			06/16/21 18:29	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			06/16/21 18:29	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			06/16/21 18:29	1
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			06/16/21 18:29	1
Methyl acetate	<3.4		25	3.4	ug/Kg			06/16/21 18:29	1
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/Kg			06/16/21 18:29	1
Methylcyclohexane	<1.2		10	1.2	ug/Kg			06/16/21 18:29	1

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

Lab Sample ID: MB 240-491000/5
Matrix: Solid
Analysis Batch: 491000

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<12		25	12	ug/Kg			06/16/21 18:29	1
Styrene	<1.2		5.0	1.2	ug/Kg			06/16/21 18:29	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			06/16/21 18:29	1
Toluene	<0.77		5.0	0.77	ug/Kg			06/16/21 18:29	1
trans-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			06/16/21 18:29	1
trans-1,3-Dichloropropene	<3.7		5.0	3.7	ug/Kg			06/16/21 18:29	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			06/16/21 18:29	1
Trichlorofluoromethane	<2.7		5.0	2.7	ug/Kg			06/16/21 18:29	1
Vinyl chloride	<1.8		5.0	1.8	ug/Kg			06/16/21 18:29	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			06/16/21 18:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*64 - 124*		*06/16/21 18:29*	*1*
Dibromofluoromethane (Surr)	*103*		*56 - 122*		*06/16/21 18:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*51 - 127*		*06/16/21 18:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*59 - 120*		*06/16/21 18:29*	*1*

Lab Sample ID: LCS 240-491000/4
Matrix: Solid
Analysis Batch: 491000

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-Trichloroethane	50.0	52.3		ug/Kg		105	60 - 126
1,1,2,2-Tetrachloroethane	50.0	56.4		ug/Kg		113	61 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.6		ug/Kg		105	58 - 144
1,1,2-Trichloroethane	50.0	51.7		ug/Kg		103	78 - 120
1,1-Dichloroethane	50.0	53.0		ug/Kg		106	69 - 120
1,1-Dichloroethene	50.0	55.7		ug/Kg		111	48 - 140
1,2,4-Trichlorobenzene	50.0	48.6		ug/Kg		97	56 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.3		ug/Kg		91	35 - 137
Ethylene Dibromide	50.0	54.5		ug/Kg		109	73 - 126
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	74 - 120
1,2-Dichloroethane	50.0	49.5		ug/Kg		99	66 - 120
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	77 - 120
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	74 - 120
1,4-Dichlorobenzene	50.0	51.4		ug/Kg		103	74 - 120
2-Butanone (MEK)	100	89.5		ug/Kg		90	61 - 131
2-Hexanone	100	108		ug/Kg		108	54 - 135
4-Methyl-2-pentanone (MIBK)	100	112		ug/Kg		112	56 - 124
Acetone	100	105		ug/Kg		105	47 - 157
Benzene	50.0	52.6		ug/Kg		105	75 - 120
Dichlorobromomethane	50.0	55.6		ug/Kg		111	63 - 121
Bromoform	50.0	45.8		ug/Kg		92	44 - 131
Bromomethane	50.0	91.0	*+	ug/Kg		182	10 - 158
Carbon disulfide	50.0	58.7		ug/Kg		117	33 - 144
Carbon tetrachloride	50.0	50.6		ug/Kg		101	54 - 130
Chlorobenzene	50.0	51.8		ug/Kg		104	79 - 120
Chloroethane	50.0	177	*+	ug/Kg		354	10 - 159

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

Lab Sample ID: LCS 240-491000/4
Matrix: Solid
Analysis Batch: 491000

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	51.3		ug/Kg		103	74 - 120
Chloromethane	50.0	54.4		ug/Kg		109	40 - 127
cis-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	76 - 120
cis-1,3-Dichloropropene	50.0	53.8		ug/Kg		108	62 - 124
Cyclohexane	50.0	53.1		ug/Kg		106	57 - 126
Chlorodibromomethane	50.0	48.4		ug/Kg		97	60 - 121
Dichlorodifluoromethane	50.0	52.6		ug/Kg		105	18 - 137
Ethylbenzene	50.0	53.7		ug/Kg		107	75 - 120
Isopropylbenzene	50.0	54.7		ug/Kg		109	74 - 120
Methyl acetate	100	90.4		ug/Kg		90	63 - 120
Methyl tert-butyl ether	50.0	49.6		ug/Kg		99	66 - 120
Methylcyclohexane	50.0	53.3		ug/Kg		107	62 - 124
Methylene Chloride	50.0	51.1		ug/Kg		102	48 - 142
Styrene	50.0	56.5		ug/Kg		113	70 - 120
Tetrachloroethene	50.0	48.1		ug/Kg		96	75 - 124
Toluene	50.0	52.7		ug/Kg		105	76 - 120
trans-1,2-Dichloroethene	50.0	54.2		ug/Kg		108	74 - 125
trans-1,3-Dichloropropene	50.0	50.1		ug/Kg		100	58 - 120
Trichloroethene	50.0	47.6		ug/Kg		95	75 - 123
Trichlorofluoromethane	50.0	57.5		ug/Kg		115	33 - 152
Vinyl chloride	50.0	67.7		ug/Kg		135	39 - 140
Xylenes, Total	100	109		ug/Kg		109	77 - 120
m-Xylene & p-Xylene	50.0	53.9		ug/Kg		108	76 - 120
o-Xylene	50.0	54.6		ug/Kg		109	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*64 - 124*
Dibromofluoromethane (Surr)	*97*		*56 - 122*
4-Bromofluorobenzene (Surr)	*91*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*86*		*59 - 120*

Lab Sample ID: MB 240-491035/1-A
Matrix: Solid
Analysis Batch: 491082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<78		250	78	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,1,2,2-Tetrachloroethane	<150		250	150	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<67		250	67	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,1,2-Trichloroethane	<57		250	57	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,1-Dichloroethane	<48		250	48	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,1-Dichloroethene	<82		250	82	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,2,4-Trichlorobenzene	<130		250	130	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,2-Dibromo-3-Chloropropane	<220		500	220	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Ethylene Dibromide	<79		250	79	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,2-Dichlorobenzene	<120		250	120	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,2-Dichloroethane	<47		250	47	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,2-Dichloropropane	<37		250	37	ug/Kg		06/16/21 21:47	06/17/21 12:59	1

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

Lab Sample ID: MB 240-491035/1-A
Matrix: Solid
Analysis Batch: 491082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<46		250	46	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
1,4-Dichlorobenzene	<55		250	55	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
2-Butanone (MEK)	<160		1000	160	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
2-Hexanone	<260		1000	260	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
4-Methyl-2-pentanone (MIBK)	<240		1000	240	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Acetone	<240		1000	240	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Benzene	<42		250	42	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Dichlorobromomethane	<61		250	61	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Bromoform	<230		250	230	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Bromomethane	<170		250	170	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Carbon disulfide	<110		250	110	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Carbon tetrachloride	<100		250	100	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Chlorobenzene	<35		250	35	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Chloroethane	<150		250	150	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Chloroform	<54		250	54	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Chloromethane	<66		250	66	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
cis-1,2-Dichloroethene	<40		250	40	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
cis-1,3-Dichloropropene	<120		250	120	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Cyclohexane	<160		500	160	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Chlorodibromomethane	<120		250	120	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Dichlorodifluoromethane	<53		250	53	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Ethylbenzene	<47		250	47	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Isopropylbenzene	<38		250	38	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Methyl acetate	<170		1300	170	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Methyl tert-butyl ether	<37		250	37	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Methylcyclohexane	<66		500	66	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Methylene Chloride	<380		500	380	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Styrene	<52		250	52	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Tetrachloroethene	<97		250	97	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Toluene	<240		250	240	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
trans-1,2-Dichloroethene	<62		250	62	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
trans-1,3-Dichloropropene	<110		250	110	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Trichloroethene	<140		250	140	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Trichlorofluoromethane	<140		250	140	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Vinyl chloride	<120		250	120	ug/Kg		06/16/21 21:47	06/17/21 12:59	1
Xylenes, Total	<91		500	91	ug/Kg		06/16/21 21:47	06/17/21 12:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*84*		*64 - 124*	*06/16/21 21:47*	*06/17/21 12:59*	*1*
Dibromofluoromethane (Surr)	*83*		*56 - 122*	*06/16/21 21:47*	*06/17/21 12:59*	*1*
4-Bromofluorobenzene (Surr)	*86*		*51 - 127*	*06/16/21 21:47*	*06/17/21 12:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*59 - 120*	*06/16/21 21:47*	*06/17/21 12:59*	*1*

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

Lab Sample ID: LCS 240-491035/2-A
Matrix: Solid
Analysis Batch: 491082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1000	999		ug/Kg		100	60 - 126
1,1,2,2-Tetrachloroethane	1000	832		ug/Kg		83	61 - 134
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1200		ug/Kg		120	58 - 144
1,1,2-Trichloroethane	1000	940		ug/Kg		94	78 - 120
1,1-Dichloroethane	1000	916		ug/Kg		92	69 - 120
1,1-Dichloroethene	1000	1080		ug/Kg		108	48 - 140
1,2,4-Trichlorobenzene	1000	1010		ug/Kg		101	56 - 120
1,2-Dibromo-3-Chloropropane	1000	891		ug/Kg		89	35 - 137
Ethylene Dibromide	1000	955		ug/Kg		95	73 - 126
1,2-Dichlorobenzene	1000	901		ug/Kg		90	74 - 120
1,2-Dichloroethane	1000	927		ug/Kg		93	66 - 120
1,2-Dichloropropane	1000	924		ug/Kg		92	77 - 120
1,3-Dichlorobenzene	1000	930		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	1000	896		ug/Kg		90	74 - 120
2-Butanone (MEK)	2000	1860		ug/Kg		93	61 - 131
2-Hexanone	2000	1820		ug/Kg		91	54 - 135
4-Methyl-2-pentanone (MIBK)	2000	1870		ug/Kg		94	56 - 124
Acetone	2000	1840		ug/Kg		92	47 - 157
Benzene	1000	967		ug/Kg		97	75 - 120
Dichlorobromomethane	1000	853		ug/Kg		85	63 - 121
Bromoform	1000	836		ug/Kg		84	44 - 131
Bromomethane	1000	745		ug/Kg		75	10 - 158
Carbon disulfide	1000	826		ug/Kg		83	33 - 144
Carbon tetrachloride	1000	910		ug/Kg		91	54 - 130
Chlorobenzene	1000	957		ug/Kg		96	79 - 120
Chloroethane	1000	855		ug/Kg		85	10 - 159
Chloroform	1000	954		ug/Kg		95	74 - 120
Chloromethane	1000	723		ug/Kg		72	40 - 127
cis-1,2-Dichloroethene	1000	1020		ug/Kg		102	76 - 120
cis-1,3-Dichloropropene	1000	883		ug/Kg		88	62 - 124
Cyclohexane	1000	955		ug/Kg		96	57 - 126
Chlorodibromomethane	1000	865		ug/Kg		87	60 - 121
Dichlorodifluoromethane	1000	638		ug/Kg		64	18 - 137
Ethylbenzene	1000	1000		ug/Kg		100	75 - 120
Isopropylbenzene	1000	1080		ug/Kg		108	74 - 120
Methyl acetate	2000	1820		ug/Kg		91	63 - 120
Methyl tert-butyl ether	1000	1020		ug/Kg		102	66 - 120
Methylcyclohexane	1000	1030		ug/Kg		103	62 - 124
Methylene Chloride	1000	1010		ug/Kg		101	48 - 142
Styrene	1000	1100		ug/Kg		110	70 - 120
Tetrachloroethene	1000	1060		ug/Kg		106	75 - 124
Toluene	1000	917		ug/Kg		92	76 - 120
trans-1,2-Dichloroethene	1000	1040		ug/Kg		104	74 - 125
trans-1,3-Dichloropropene	1000	701		ug/Kg		70	58 - 120
Trichloroethene	1000	1060		ug/Kg		106	75 - 123
Trichlorofluoromethane	1000	961		ug/Kg		96	33 - 152
Vinyl chloride	1000	816		ug/Kg		82	39 - 140
Xylenes, Total	2000	2090		ug/Kg		105	77 - 120

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

Lab Sample ID: LCS 240-491035/2-A
Matrix: Solid
Analysis Batch: 491082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	1000	1010		ug/Kg		101	76 - 120
o-Xylene	1000	1080		ug/Kg		108	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*83*		*64 - 124*
Dibromofluoromethane (Surr)	*93*		*56 - 122*
4-Bromofluorobenzene (Surr)	*89*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*89*		*59 - 120*

Lab Sample ID: MB 240-491181/6
Matrix: Solid
Analysis Batch: 491181

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-Trichloroethane	<1.8		5.0	1.8	ug/Kg			06/17/21 15:01	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			06/17/21 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.3		5.0	1.3	ug/Kg			06/17/21 15:01	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			06/17/21 15:01	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			06/17/21 15:01	1
1,1-Dichloroethene	<1.8		5.0	1.8	ug/Kg			06/17/21 15:01	1
1,2,4-Trichlorobenzene	<2.5		5.0	2.5	ug/Kg			06/17/21 15:01	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			06/17/21 15:01	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			06/17/21 15:01	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			06/17/21 15:01	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			06/17/21 15:01	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			06/17/21 15:01	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			06/17/21 15:01	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			06/17/21 15:01	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			06/17/21 15:01	1
2-Hexanone	<4.1		20	4.1	ug/Kg			06/17/21 15:01	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			06/17/21 15:01	1
Acetone	<21		25	21	ug/Kg			06/17/21 15:01	1
Benzene	<0.70		5.0	0.70	ug/Kg			06/17/21 15:01	1
Dichlorobromomethane	<1.5		5.0	1.5	ug/Kg			06/17/21 15:01	1
Bromoform	<2.4		5.0	2.4	ug/Kg			06/17/21 15:01	1
Bromomethane	<4.2		5.0	4.2	ug/Kg			06/17/21 15:01	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			06/17/21 15:01	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			06/17/21 15:01	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			06/17/21 15:01	1
Chloroethane	<2.7		5.0	2.7	ug/Kg			06/17/21 15:01	1
Chloroform	<0.79		5.0	0.79	ug/Kg			06/17/21 15:01	1
Chloromethane	<2.3		5.0	2.3	ug/Kg			06/17/21 15:01	1
cis-1,2-Dichloroethene	<1.5		5.0	1.5	ug/Kg			06/17/21 15:01	1
cis-1,3-Dichloropropene	<2.9		5.0	2.9	ug/Kg			06/17/21 15:01	1
Cyclohexane	<1.4		10	1.4	ug/Kg			06/17/21 15:01	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			06/17/21 15:01	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			06/17/21 15:01	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			06/17/21 15:01	1

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

Lab Sample ID: MB 240-491181/6
Matrix: Solid
Analysis Batch: 491181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<1.9		5.0	1.9	ug/Kg			06/17/21 15:01	1
Methyl acetate	<3.4		25	3.4	ug/Kg			06/17/21 15:01	1
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/Kg			06/17/21 15:01	1
Methylcyclohexane	<1.2		10	1.2	ug/Kg			06/17/21 15:01	1
Methylene Chloride	<12		25	12	ug/Kg			06/17/21 15:01	1
Styrene	<1.2		5.0	1.2	ug/Kg			06/17/21 15:01	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			06/17/21 15:01	1
Toluene	<0.77		5.0	0.77	ug/Kg			06/17/21 15:01	1
trans-1,2-Dichloroethene	<1.4		5.0	1.4	ug/Kg			06/17/21 15:01	1
trans-1,3-Dichloropropene	<3.7		5.0	3.7	ug/Kg			06/17/21 15:01	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			06/17/21 15:01	1
Trichlorofluoromethane	<2.7		5.0	2.7	ug/Kg			06/17/21 15:01	1
Vinyl chloride	<1.8		5.0	1.8	ug/Kg			06/17/21 15:01	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			06/17/21 15:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*64 - 124*		*06/17/21 15:01*	*1*
Dibromofluoromethane (Surr)	*98*		*56 - 122*		*06/17/21 15:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*51 - 127*		*06/17/21 15:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*59 - 120*		*06/17/21 15:01*	*1*

Lab Sample ID: LCS 240-491181/5
Matrix: Solid
Analysis Batch: 491181

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-Trichloroethane	50.0	57.5		ug/Kg		115	60 - 126
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	61 - 134
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	59.1		ug/Kg		118	58 - 144
1,1,2-Trichloroethane	50.0	48.8		ug/Kg		98	78 - 120
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	69 - 120
1,1-Dichloroethene	50.0	59.8		ug/Kg		120	48 - 140
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	56 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/Kg		98	35 - 137
Ethylene Dibromide	50.0	49.6		ug/Kg		99	73 - 126
1,2-Dichlorobenzene	50.0	49.0		ug/Kg		98	74 - 120
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	66 - 120
1,2-Dichloropropane	50.0	51.4		ug/Kg		103	77 - 120
1,3-Dichlorobenzene	50.0	51.3		ug/Kg		103	74 - 120
1,4-Dichlorobenzene	50.0	50.8		ug/Kg		102	74 - 120
2-Butanone (MEK)	100	104		ug/Kg		104	61 - 131
2-Hexanone	100	108		ug/Kg		108	54 - 135
4-Methyl-2-pentanone (MIBK)	100	101		ug/Kg		101	56 - 124
Acetone	100	115		ug/Kg		115	47 - 157
Benzene	50.0	52.2		ug/Kg		104	75 - 120
Dichlorobromomethane	50.0	54.1		ug/Kg		108	63 - 121
Bromoform	50.0	52.9		ug/Kg		106	44 - 131
Bromomethane	20.0	18.8		ug/Kg		94	10 - 158

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

Lab Sample ID: LCS 240-491181/5
Matrix: Solid
Analysis Batch: 491181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	58.8		ug/Kg		118	33 - 144
Carbon tetrachloride	50.0	59.6		ug/Kg		119	54 - 130
Chlorobenzene	50.0	50.9		ug/Kg		102	79 - 120
Chloroethane	20.0	19.6		ug/Kg		98	10 - 159
Chloroform	50.0	52.2		ug/Kg		104	74 - 120
Chloromethane	20.0	25.6	*+	ug/Kg		128	40 - 127
cis-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	76 - 120
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	62 - 124
Cyclohexane	50.0	59.0		ug/Kg		118	57 - 126
Chlorodibromomethane	50.0	53.3		ug/Kg		107	60 - 121
Dichlorodifluoromethane	20.0	28.4	*+	ug/Kg		142	18 - 137
Ethylbenzene	50.0	53.7		ug/Kg		107	75 - 120
Isopropylbenzene	50.0	56.2		ug/Kg		112	74 - 120
Methyl acetate	100	97.5		ug/Kg		98	63 - 120
Methyl tert-butyl ether	50.0	50.9		ug/Kg		102	66 - 120
Methylcyclohexane	50.0	60.2		ug/Kg		120	62 - 124
Methylene Chloride	50.0	54.6		ug/Kg		109	48 - 142
Styrene	50.0	54.0		ug/Kg		108	70 - 120
Tetrachloroethene	50.0	54.4		ug/Kg		109	75 - 124
Toluene	50.0	51.3		ug/Kg		103	76 - 120
trans-1,2-Dichloroethene	50.0	55.7		ug/Kg		111	74 - 125
trans-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	58 - 120
Trichloroethene	50.0	54.1		ug/Kg		108	75 - 123
Trichlorofluoromethane	20.0	25.9		ug/Kg		130	33 - 152
Vinyl chloride	20.0	25.4		ug/Kg		127	39 - 140
Xylenes, Total	100	108		ug/Kg		108	77 - 120
m-Xylene & p-Xylene	50.0	53.3		ug/Kg		107	76 - 120
o-Xylene	50.0	54.3		ug/Kg		109	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*64 - 124*
Dibromofluoromethane (Surr)	*96*		*56 - 122*
4-Bromofluorobenzene (Surr)	*93*		*51 - 127*
1,2-Dichloroethane-d4 (Surr)	*89*		*59 - 120*

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

Lab Sample ID: MB 240-490177/23-A
Matrix: Solid
Analysis Batch: 490748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<2.9		15	2.9	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Acenaphthylene	<4.0		15	4.0	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Anthracene	<2.4		15	2.4	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Benzo[a]anthracene	<3.4		15	3.4	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Benzo[a]pyrene	<9.3		15	9.3	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Benzo[b]fluoranthene	<6.5		15	6.5	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Benzo[g,h,i]perylene	<7.1		15	7.1	ug/Kg		06/11/21 08:36	06/15/21 15:06	1

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

Lab Sample ID: MB 240-490177/23-A
Matrix: Solid
Analysis Batch: 490748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<6.9		15	6.9	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Chrysene	<1.5		15	1.5	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Dibenz(a,h)anthracene	<6.9		15	6.9	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Fluoranthene	<4.5		15	4.5	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Fluorene	<2.7		15	2.7	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Indeno[1,2,3-cd]pyrene	<7.4		15	7.4	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Naphthalene	<2.4		15	2.4	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Phenanthrene	<2.2		15	2.2	ug/Kg		06/11/21 08:36	06/15/21 15:06	1
Pyrene	<2.1		15	2.1	ug/Kg		06/11/21 08:36	06/15/21 15:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*82*		*39 - 120*	*06/11/21 08:36*	*06/15/21 15:06*	*1*
Phenol-d5 (Surr)	*64*		*28 - 120*	*06/11/21 08:36*	*06/15/21 15:06*	*1*
Nitrobenzene-d5 (Surr)	*62*		*28 - 120*	*06/11/21 08:36*	*06/15/21 15:06*	*1*
2-Fluorophenol (Surr)	*62*		*26 - 120*	*06/11/21 08:36*	*06/15/21 15:06*	*1*
2-Fluorobiphenyl (Surr)	*65*		*35 - 120*	*06/11/21 08:36*	*06/15/21 15:06*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*10 - 120*	*06/11/21 08:36*	*06/15/21 15:06*	*1*

Lab Sample ID: LCS 240-490177/24-A
Matrix: Solid
Analysis Batch: 490748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	483		ug/Kg		72	45 - 120
Acenaphthylene	667	470		ug/Kg		70	45 - 120
Anthracene	667	510		ug/Kg		76	52 - 120
Benzo[a]anthracene	667	507		ug/Kg		76	52 - 120
Benzo[a]pyrene	667	520		ug/Kg		78	50 - 120
Benzo[b]fluoranthene	667	544		ug/Kg		82	52 - 120
Benzo[g,h,i]perylene	667	521		ug/Kg		78	54 - 120
Benzo[k]fluoranthene	667	508		ug/Kg		76	54 - 120
Chrysene	667	497		ug/Kg		75	53 - 120
Dibenz(a,h)anthracene	667	533		ug/Kg		80	50 - 120
Fluoranthene	667	586		ug/Kg		88	54 - 120
Fluorene	667	503		ug/Kg		75	48 - 120
Indeno[1,2,3-cd]pyrene	667	531		ug/Kg		80	52 - 120
Naphthalene	667	475		ug/Kg		71	39 - 120
Phenanthrene	667	500		ug/Kg		75	50 - 120
Pyrene	667	555		ug/Kg		83	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*90*		*39 - 120*
Phenol-d5 (Surr)	*74*		*28 - 120*
Nitrobenzene-d5 (Surr)	*77*		*28 - 120*
2-Fluorophenol (Surr)	*73*		*26 - 120*
2-Fluorobiphenyl (Surr)	*71*		*35 - 120*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-490715/23-A
Matrix: Solid
Analysis Batch: 490985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1221	<24		50	24	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1232	<23		50	23	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1242	<19		50	19	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1248	<24		50	24	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1254	<23		50	23	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1260	<22		50	22	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1262	<31		50	31	ug/Kg		06/15/21 10:39	06/16/21 19:26	1
Aroclor-1268	<23		50	23	ug/Kg		06/15/21 10:39	06/16/21 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*14 - 128*	*06/15/21 10:39*	*06/16/21 19:26*	*1*
DCB Decachlorobiphenyl	*100*		*10 - 132*	*06/15/21 10:39*	*06/16/21 19:26*	*1*

Lab Sample ID: LCS 240-490715/24-A
Matrix: Solid
Analysis Batch: 490985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	747		ug/Kg		75	47 - 120
Aroclor-1260	1000	808		ug/Kg		81	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*14 - 128*
DCB Decachlorobiphenyl	*99*		*10 - 132*

Lab Sample ID: MB 240-491178/23-A
Matrix: Solid
Analysis Batch: 491264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1221	<24		50	24	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1232	<23		50	23	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1242	<19		50	19	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1248	<24		50	24	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1254	<23		50	23	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1260	<22		50	22	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1262	<31		50	31	ug/Kg		06/17/21 12:23	06/18/21 13:34	1
Aroclor-1268	<23		50	23	ug/Kg		06/17/21 12:23	06/18/21 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*14 - 128*	*06/17/21 12:23*	*06/18/21 13:34*	*1*
DCB Decachlorobiphenyl	*106*		*10 - 132*	*06/17/21 12:23*	*06/18/21 13:34*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-491178/24-A
Matrix: Solid
Analysis Batch: 491264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	848		ug/Kg		85	47 - 120
Aroclor-1260	1000	864		ug/Kg		86	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*14 - 128*
DCB Decachlorobiphenyl	*108*		*10 - 132*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-490221/1-A
Matrix: Solid
Analysis Batch: 490651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.36		20	0.36	mg/Kg		06/11/21 14:00	06/14/21 15:25	1
Cadmium	<0.048		0.50	0.048	mg/Kg		06/11/21 14:00	06/14/21 15:25	1
Chromium	<0.34		1.0	0.34	mg/Kg		06/11/21 14:00	06/14/21 15:25	1
Silver	<0.081		1.0	0.081	mg/Kg		06/11/21 14:00	06/14/21 15:25	1
Arsenic	<0.32		1.5	0.32	mg/Kg		06/11/21 14:00	06/14/21 15:25	1
Lead	<0.28		1.0	0.28	mg/Kg		06/11/21 14:00	06/14/21 15:25	1
Selenium	<0.47		2.0	0.47	mg/Kg		06/11/21 14:00	06/14/21 15:25	1

Lab Sample ID: LCS 240-490221/2-A
Matrix: Solid
Analysis Batch: 490651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	180		mg/Kg		90	80 - 120
Cadmium	100	92.5		mg/Kg		93	80 - 120
Chromium	100	97.2		mg/Kg		97	80 - 120
Silver	10.0	9.66		mg/Kg		97	80 - 120
Arsenic	200	186		mg/Kg		93	80 - 120
Lead	100	90.9		mg/Kg		91	80 - 120
Selenium	200	176		mg/Kg		88	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 240-490233/1-A
Matrix: Solid
Analysis Batch: 490857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0190	J	0.10	0.018	mg/Kg		06/11/21 14:00	06/15/21 10:01	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-490233/2-A
Matrix: Solid
Analysis Batch: 490857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.850		mg/Kg		102	80 - 120		

QC Association Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

GC/MS VOA

Prep Batch: 490292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-490292/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 491000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	8260D	491029
240-150999-2	B-14_7.5-10	Total/NA	Solid	8260D	491029
MB 240-491000/5	Method Blank	Total/NA	Solid	8260D	
LCS 240-491000/4	Lab Control Sample	Total/NA	Solid	8260D	

Prep Batch: 491029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	5030C	
240-150999-2	B-14_7.5-10	Total/NA	Solid	5030C	
240-150999-4	SS1	Total/NA	Solid	5030C	

Prep Batch: 491035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-3	PR1	Total/NA	Solid	5030C	
MB 240-491035/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 240-491035/2-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 491082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-3	PR1	Total/NA	Solid	8260D	491035
MB 240-490292/1-A	Method Blank	Total/NA	Solid	8260D	490292
MB 240-491035/1-A	Method Blank	Total/NA	Solid	8260D	491035
LCS 240-491035/2-A	Lab Control Sample	Total/NA	Solid	8260D	491035

Analysis Batch: 491181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-4	SS1	Total/NA	Solid	8260D	491029
MB 240-491181/6	Method Blank	Total/NA	Solid	8260D	
LCS 240-491181/5	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 490177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	3540C	
240-150999-2	B-14_7.5-10	Total/NA	Solid	3540C	
240-150999-3	PR1	Total/NA	Solid	3540C	
240-150999-4	SS1	Total/NA	Solid	3540C	
MB 240-490177/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-490177/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 490748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-490177/23-A	Method Blank	Total/NA	Solid	8270E	490177
LCS 240-490177/24-A	Lab Control Sample	Total/NA	Solid	8270E	490177

QC Association Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

GC/MS Semi VOA

Analysis Batch: 491349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	8270E	490177
240-150999-2	B-14_7.5-10	Total/NA	Solid	8270E	490177
240-150999-3	PR1	Total/NA	Solid	8270E	490177
240-150999-4	SS1	Total/NA	Solid	8270E	490177

GC Semi VOA

Prep Batch: 490715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	3540C	
240-150999-2	B-14_7.5-10	Total/NA	Solid	3540C	
240-150999-4	SS1	Total/NA	Solid	3540C	
MB 240-490715/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-490715/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 490985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	8082A	490715
240-150999-2	B-14_7.5-10	Total/NA	Solid	8082A	490715
240-150999-4	SS1	Total/NA	Solid	8082A	490715
MB 240-490715/23-A	Method Blank	Total/NA	Solid	8082A	490715
LCS 240-490715/24-A	Lab Control Sample	Total/NA	Solid	8082A	490715

Prep Batch: 491178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-3	PR1	Total/NA	Solid	3540C	
MB 240-491178/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-491178/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 491264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-3	PR1	Total/NA	Solid	8082A	491178
MB 240-491178/23-A	Method Blank	Total/NA	Solid	8082A	491178
LCS 240-491178/24-A	Lab Control Sample	Total/NA	Solid	8082A	491178

Metals

Prep Batch: 490221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	3050B	
240-150999-2	B-14_7.5-10	Total/NA	Solid	3050B	
240-150999-3	PR1	Total/NA	Solid	3050B	
240-150999-4	SS1	Total/NA	Solid	3050B	
MB 240-490221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-490221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 490233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	7471B	
240-150999-2	B-14_7.5-10	Total/NA	Solid	7471B	
240-150999-3	PR1	Total/NA	Solid	7471B	
240-150999-4	SS1	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 490233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-490233/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 240-490233/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 490651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	6010D	490221
240-150999-2	B-14_7.5-10	Total/NA	Solid	6010D	490221
240-150999-3	PR1	Total/NA	Solid	6010D	490221
240-150999-4	SS1	Total/NA	Solid	6010D	490221
MB 240-490221/1-A	Method Blank	Total/NA	Solid	6010D	490221
LCS 240-490221/2-A	Lab Control Sample	Total/NA	Solid	6010D	490221

Analysis Batch: 490857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	7471B	490233
240-150999-2	B-14_7.5-10	Total/NA	Solid	7471B	490233
240-150999-3	PR1	Total/NA	Solid	7471B	490233
240-150999-4	SS1	Total/NA	Solid	7471B	490233
MB 240-490233/1-A	Method Blank	Total/NA	Solid	7471B	490233
LCS 240-490233/2-A	Lab Control Sample	Total/NA	Solid	7471B	490233

General Chemistry

Analysis Batch: 490234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-150999-1	B-13_0-2.5	Total/NA	Solid	Moisture	
240-150999-2	B-14_7.5-10	Total/NA	Solid	Moisture	
240-150999-3	PR1	Total/NA	Solid	Moisture	
240-150999-4	SS1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: B-13_0-2.5
Date Collected: 06/09/21 09:30
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490234	06/11/21 11:48	AJ	TAL CAN

Client Sample ID: B-13_0-2.5
Date Collected: 06/09/21 09:30
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-1
Matrix: Solid
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			491029	06/16/21 19:24	CS	TAL CAN
Total/NA	Analysis	8260D		1	491000	06/17/21 02:45	CS	TAL CAN
Total/NA	Prep	3540C			490177	06/11/21 08:36	EMB	TAL CAN
Total/NA	Analysis	8270E		20	491349	06/18/21 21:30	MRU	TAL CAN
Total/NA	Prep	3540C			490715	06/15/21 10:39	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490985	06/16/21 20:10	CSC	TAL CAN
Total/NA	Prep	3050B			490221	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490651	06/14/21 16:28	RKT	TAL CAN
Total/NA	Prep	7471B			490233	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490857	06/15/21 10:27	DSH	TAL CAN

Client Sample ID: B-14_7.5-10
Date Collected: 06/09/21 10:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490234	06/11/21 11:48	AJ	TAL CAN

Client Sample ID: B-14_7.5-10
Date Collected: 06/09/21 10:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-2
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			491029	06/16/21 19:24	CS	TAL CAN
Total/NA	Analysis	8260D		1	491000	06/17/21 03:10	CS	TAL CAN
Total/NA	Prep	3540C			490177	06/11/21 08:36	EMB	TAL CAN
Total/NA	Analysis	8270E		1	491349	06/18/21 21:04	MRU	TAL CAN
Total/NA	Prep	3540C			490715	06/15/21 10:39	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490985	06/16/21 20:24	CSC	TAL CAN
Total/NA	Prep	3050B			490221	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490651	06/14/21 16:33	RKT	TAL CAN
Total/NA	Prep	7471B			490233	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490857	06/15/21 10:29	DSH	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Client Sample ID: PR1
Date Collected: 06/09/21 11:10
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490234	06/11/21 11:48	AJ	TAL CAN

Client Sample ID: PR1
Date Collected: 06/09/21 11:10
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-3
Matrix: Solid
Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			491035	06/16/21 21:47	LAM	TAL CAN
Total/NA	Analysis	8260D		5	491082	06/17/21 14:27	TJL2	TAL CAN
Total/NA	Prep	3540C			490177	06/11/21 08:36	EMB	TAL CAN
Total/NA	Analysis	8270E		20	491349	06/18/21 22:21	MRU	TAL CAN
Total/NA	Prep	3540C			491178	06/17/21 12:23	ARR	TAL CAN
Total/NA	Analysis	8082A		5	491264	06/18/21 15:43	KMG	TAL CAN
Total/NA	Prep	3050B			490221	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490651	06/14/21 16:54	RKT	TAL CAN
Total/NA	Prep	7471B			490233	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490857	06/15/21 10:31	DSH	TAL CAN

Client Sample ID: SS1
Date Collected: 06/09/21 11:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	490234	06/11/21 11:48	AJ	TAL CAN

Client Sample ID: SS1
Date Collected: 06/09/21 11:20
Date Received: 06/09/21 12:20

Lab Sample ID: 240-150999-4
Matrix: Solid
Percent Solids: 61.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			491029	06/16/21 19:24	CS	TAL CAN
Total/NA	Analysis	8260D		1	491181	06/17/21 20:13	CS	TAL CAN
Total/NA	Prep	3540C			490177	06/11/21 08:36	EMB	TAL CAN
Total/NA	Analysis	8270E		4	491349	06/18/21 21:55	MRU	TAL CAN
Total/NA	Prep	3540C			490715	06/15/21 10:39	ARR	TAL CAN
Total/NA	Analysis	8082A		1	490985	06/16/21 20:39	CSC	TAL CAN
Total/NA	Prep	3050B			490221	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	6010D		1	490651	06/14/21 16:59	RKT	TAL CAN
Total/NA	Prep	7471B			490233	06/11/21 14:00	DEE	TAL CAN
Total/NA	Analysis	7471B		1	490857	06/15/21 10:33	DSH	TAL CAN

Laboratory References:
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: EnviroScience Inc
Project/Site: Middle Branch Phase II

Job ID: 240-150999-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21 *
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

4.0/4.1 0.2/0.3

Chain of Custody Record

530410

eurofins | Environment Testing TestAmerica

Address: _____

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

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Enviroscience	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 5070 Stow Rd	Analysis Turnaround Time			Sampler:
City/State/Zip: Stow, OH 44224	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 330.808.2386	TAT if different from Below Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Middle Branch Phase II	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PAHs - 8270	Metals - 6010/7470	VOCs - 8260	PCBs - 8082	Sample Specific Notes:
B-13_0-2.5	6.9.21	0930	G	S	2			X	X	X	X	
B-14_7.5-10	↓	1020	↓	S	2			X	X	X	X	
PR1	↓	1110	↓	PT	1			X	X	X	X	
SS1	↓	1120	↓	S	2			X	X	X	X	

240-150999 Chain of Custody

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

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

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

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
PR1 is a product sample and may have elevated concentrations

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kyle Lawrence	Enviroscience	6.9.21 1220		ETA	6-9-21 1220
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 150944

Client EnviroScience Site Name _____ Cooler unpacked by: Matts

Cooler Received on 6-9-21 Opened on 6-9-21

FedEx: 1st Grd Exp UPS FAS Clipper ~~Client Drop Off~~ TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
   IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
    If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC022887**
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login # : 150999

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
TA Client Box Other	IR-11 IR-12	4.0	4.1	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12	0.2	0.3	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
☐ See Temperature Excursion Form				

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

Appendix D

Title VI Requirements

The City of Canton, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat.252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity, for which the Recipient receives Federal financial assistance from DOT, including the City of Canton.

Please also review Appendix A, Appendix C, Appendix D and Appendix E of the Standard Assurances which are included in the following pages.

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, ***The City of Canton*****,** as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part21. ***{Include City of Canton specific program requirements.]***

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin. ***{Include City of Canton specific program requirements.]***

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or ***The City of Canton)*** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or ***The City of Canton)*****,** as appropriate, and will set forth what efforts it has made to obtain the information.

5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non• discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or ***The City of Canton*** may determine to be appropriate, including, but not limited to:

   a. withholding payments to the contractor under the contract until the contractor complies; and/or
   b. cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or ***The City of Canton*** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX C

CLAUSES FOR TRANSFER OF REAL PROPERTY ACQUIRED OR IMPROVED UNDER THE ACTIVITY, FACILITY, OR PROGRAM

The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the ***(Title of Recipient)*** pursuant to the provisions of Assurance 7(a):

A. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal representatives , successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:

1. In the event facilities are constructed, maintained, or otherwise operated on the property described in this (deed, license, lease, permit, etc.) for a purpose for which a U.S. Department of Transportation activity, facility, or program is extended or for another purpose involving the provision of similar services or benefits, the (grantee, licensee, lessee, permittee, etc.) will maintain and operate such facilities and services in compliance with all requirements imposed by the Acts and Regulations (as may be amended) such that no person on the grounds of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.

B. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Non-discrimination covenants, *(Title of Recipient)* will have the right to terminate the (lease, license, permit, etc.) and to enter, re-enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit, etc.) had never been made or issued.*

C. With respect to a deed, in the event of breach of any of the above Non-discrimination covenants, the ***(Title of Recipient)*** will have the right to enter or re-enter the lands and facilities thereon, and the above described lands and facilities will there upon revert to and vest in and become the absolute property of the *(Title of Recipient)* and its assigns.*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

APPENDIX D

CLAUSES FOR CONSTRUCTION/USE/ACCESS TO REAL PROPERTY ACQUIRED UNDER THE ACTIVITY, FACILITY OR PROGRAM

The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into by ***(Title of Recipient)*** pursuant to the provisions of Assurance 7(b):

A. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee, etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the Acts and Regulations, as amended, set forth in this Assurance.

B. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above Non- discrimination covenants, ***(Title of Recipient)*** will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued.*

C. With respect to deeds, in the event of breach of any of the above Non-discrimination covenants, ***(Title of Recipient)*** will there upon revert to and vest in and become the absolute property of ***(Title of Recipient)*** and its assigns.*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

APPENDIX E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.),* (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. §794 *et seq.),* as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.),* (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 - 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 etseq).

CANTON TITLE VI COMPLAINT PROCEDURE

I. FILING A COMPLAINT

Complaint Procedure - Any person who believes that he or she as a member of a protected class, has been discriminated against based on race, color, national origin, gender, age, disability, religion, low income status, or Limited English Proficiency (LEP) in violation of Title VI of the Civil Rights Act of 1964, as amended and its related statutes, regulations and directives, Section 504 of the Vocational Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, as amended, the Civil Rights Restoration Act of 1987, as amended, and any other Federal nondiscrimination statute may submit a complaint. A complaint may also be submitted by a representative on behalf of such a person.

It is the policy of the City to conduct a prompt and impartial investigation of all allegations of discrimination and to take prompt effective corrective action when a claim of discrimination is substantiated.

No one may intimidate, threaten, coerce or engage in other discriminatory conduct against anyone because they have taken action or participated in an action to secure rights protected by the civil rights laws. Any individual alleging such harassment or intimidation may submit a complaint by following the procedure printed below.

Any individual who feels that he or she has been discriminated against may submit a written or verbal complaint to the designated Title VI Coordinator. A complaint must include the name, address and telephone number of the individual making the complaint (complainant) and a brief description of the alleged discriminatory conduct including the date of harm. An individual submitting a complaint alleging discrimination may include any relevant evidence, including the names of witnesses and supporting documentation.

Complaints should be directed to the Title VI Coordinator:

_____
Andrea Perry
Director of Public Safety
218 Cleveland Ave S.W., 8th floor
Canton, Ohio 44702
Phone - 330-438-4303
Email – andrea.perry@cantonohio.gov

Within 60 days of the receipt of the complaint the City will conduct an investigation of the allegation based on the information provided and issue a written report of its findings to the complainant. The City will try to obtain an informal voluntary resolution to all complaints at the lowest level possible.

A complainant's identity shall be kept confidential except to the extent necessary to conduct an investigation. All complaints shall be kept confidential.

These procedures do not deny the right of any individual to file a formal complaint with any government agency or affect an individual's right to seek private counsel for any complaint alleging discrimination.

Complaints may also be filed with the following government agencies:

Ohio Department of Transportation
Office of Equal Opportunity
1980 West Broad Street
MS: 3270
Columbus, OH 43223

The U.S. Department of Transportation
1200 New Jersey Avenue, SE
Washington, DC 20590

Ohio Civil Rights Commission
Central Office
Rhodes State Office Tower
30 East Broad Street, 5th floor
Columbus, OH 43215
614-466-2785

Ohio Civil Rights Commission
Akron Regional Office
Bradley S. S. Dunn, Regional Director
Akron Government Bldg.
161 S. High Street, Suite 205
Akron, OH 44308
(330) 643-3100

Link to filing a complaint online with the Ohio Civil Rights Commission:

https://crc.ohio.gov/FilingaCharge/ChargeFilingProcedure.aspx

II. COMPLAINT PROCESSING

The Title VI Coordinator will review the complaint upon receipt to ensure that all required information is provided, the complaint meets the filing deadline date which is 180 days from the date the alleged discriminatory act occurred, and falls within the jurisdiction of the City.

The Title VI Coordinator will then investigate the complaint. If the complaint is against the City then the Mayor's office or their designee will investigate the complaint. Additionally, a copy of the complaint will be forwarded to the City Law Director.

If the complaint warrants a full investigation, the Complainant will be notified in writing by certified mail. This notice will name the investigator and/or investigating agency.

The party alleged to have acted in a discriminatory manner will also be notified by certified mail as of the complaint. This letter will also include the investigator's name and will request that this party be available for an interview.

Any comments or recommendations from legal counsel will be reviewed by the Title VI Coordinator, Director of Public Service and Mayor's office.

Once the City has investigated the report findings, the City will adopt a final resolution.
All parties associated with the complaint will be properly notified of the outcome of the City's investigative report.

If the complainant is not satisfied with the results of the investigation of the alleged discriminatory practice(s), she/he shall be advised of their right to appeal the City's decision.

Appeals must be filed within 180 days after the City's final resolution. Unless new facts not previously considered come to light, reconsideration of the City's determination will not be available.

The foregoing complaint resolution procedure will be implemented in accordance with the Department of Justice guidance manual entitled "Investigation Procedures Manual for the Investigation and Resolution of Complaints Alleging Violations of Title VI and Other Nondiscrimination Statues," available online at:

http://www.justice.gov/crt/about/cor/Pubs/manuals/complain.pdf

Title VI Complaint Filing

Complaints filed with the City of Canton, Ohio based on violations of Title VI of the Civil Rights Act of 1964, must include the following information:

· Name of Complainant
· Date of Complaint

· Address of Complainant

· Telephone Number of Complainant

· Name of Agency / Department Accused of Discriminatory Practices

· Name of Individual Accused of Discriminatory Practices

· Address of Agency

· Date of Alleged Discrimination

· Description of Alleged Discrimination (see below)

11. Alleged Discrimination - If your complaint is in regard to discrimination in the delivery of services or discrimination that involved the treatment of you by others by the agency or department indicated above, please indicate below the basis on which you believe these discriminatory actions were taken.
· Race / Color / Religion
· National Origin
· Age · Sex, Gender
· Disability · Income Status
· Explanation of Alleged Discrimination - Please explain as clearly aspossible what happened.
Provide the name(s) of witness(s) and others involved in the alleged discrimination. (Attach additional sheets if necessary and provide a copy of written material pertaining to your case.)
· Signature of Complainant · Date of Complaint

III. ENVIRONMENTAL JUSTICE

In accordance with Title VI of the Civil Rights Act of 1964, each Federal agency shall ensure that all programs or activities receiving Federal financial assistance that affect human health or the environment do not directly, or through other arrangements, use criteria, methods, or practices that discriminate on the basis of race, color, or national origin. Part of Title VI reads, “No person in the United States shall, on the ground of race, color, or national origin beexcluded

from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance."

The three fundamental environmental justice (EJ) principles are:
· To avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations andlow-income populations;

· To ensure the full and fair participation by all potentially affected communities in the transportation decision-making process; and

· To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority populations and low-income populations.

The City of Canton is committed to these three environmental justice principles in all work that the City performs.

IV. ADMINISTRATION – WORK PLAN

Pursuant to 23 CFR 200, the City of Canton has designated a Title VI Coordinator who is responsible for initiating, monitoring, and ensuring the City's compliance with Title VI requirements for the following work plan:

· Administer, coordinate and Implement the Title VI Program plan and distribute internally and externally via website and update annually as required.
· Ensure that Assurances are being used in contracts for federal projects.
· Attend Title VI training.
· Collect public involvement data.
· Review written Title VI complaints and ensure every effort is made to resolve complaints informally at the local or regional level and review and update the City's Title VI plan and procedures as required.
· Implement a plan that provides training to City Staff on the basic requirements of the Title VI implementation plan.

Title VI Coordinator:

_____
Andrea Perry
Director of Public Safety
218 Cleveland Avenue, S.W., 8th floor
Canton, Ohio 44702
Phone – 330-438-4303
Email - andrea.perry@cantonohio.gov

V. LIMITED ENGLISH PROFICIENCY (LEP) POLICY

On August 11, 2000, the President signed an executive order, *Executive Order 13166: Improving Access to Service for Persons with Limited English Proficiency (LEP)*, to clarify Title VI of the Civil Rights Act of 1964. It has as its purpose, to ensure meaningful access to programs and services to otherwise eligible persons who are not proficient in the English language. In addition, The US Department of Transportation published *Policy Guidance Concerning Recipients' responsibilities to Limited English Proficient Person* in the December 14, 2005 Federal Register.

This guidance outlines the following four factors that the City uses to access the LEP populations in Canton.

1. The number and proportion of LEP persons eligible to be served or likely to be encountered by the City.
2. The frequency with which LEP individuals come into contact with the program, activity or service.
3. The nature and importance of the program, activity, or service provided by the program.
4. The resources available to the City and costs.

Summary of the four factor analysis

Factor 1- The number and proportion of LEP persons eligible to be served or likely to be encountered by the City can only be estimated until the actual number of persons who can speak English less than "very well" are documented as needing assistance by City Staff . With this Title VI Plan being in early development stages and considered a document that may need regular updates, US Census Bureau information is being used at this time. The total population is provided below to shown general distribution of race and ethnicity in the community. The estimated number of persons that may not speak English "very well" is following in the US Census Bureau 2006-2010 American Community Survey.

The U.S. Census Bureau provides statistics from 2010 for the City of Canton as follows:
Total population = 74,451
Population by Ethnicity:
Hispanic or Latino = 1,805 Non Hispanic or Latino = 72,646
Population by Race:
White = 53,150 African American = 16,854, Asian = 193, American Indiana or Alaska Native = 372,
Native Hawaiian and Pacific Islander = 0, Other = 431, Identified by two or more = 3,451.

The US Census Bureau 2006-2010 American Community Survey 5-Year Estimates under SELECTED SOCIAL CHARACTERISTICS estimates the number of people in Canton who speak a language other than English to be 2,945 with those speaking English less than "very well" estimated at 1.0% or approximately 983 individuals who may be considered limited in English proficiency.

Factor 1(continued)-
According to the census numbers above there may be up to 983 individuals who live in the City of Canton that *may* be considered as LEP. Based on actual contact between City Staff and the community there have been very few requests from anyone in the service area asking the City to provide language translation services. Therefore, the LEP population is probably even less than the estimate shown above.

Factor 2- The frequency with which LEP individuals come into contact with the program, activity or service:
Due to the infrequent requests for translation services, there appears to be a minimal need for translation services from the City. This may be attributed to the high percentage of younger people (87.6% for ages up to 17) who are available as family members for translation services.

Factor 3. The nature and importance of the program, activity, or service provided by the program:
If at any time a LEP individual requests translation services that are considered important such that denial or delay of access or services or information could have serious or even life-threatening implications, the City will provide, upon request, services to assist the LEP population including translation of vital City documents and interpretation services.

Factor 4. The resources available to the City and costs:
The City of Canton currently has several staff members who are bilingual in English and Spanish and are available to translate requests from the Hispanic population on a day to day basis. The City also provides many of their outreach services in the predominate languages of the community, English and Spanish. In addition, certified translation services are available through LanguageLine Solutions, a telephone translation service that is accessible for phone line translations services 24 hours a day. These are services the City provides upon request as discussed in factor 3 above. Page | 12

Summary of LEP Accommodation Plan
· The City of Canton strives to serve its population to the best of its ability and will provide upon request, services to assist the LEP population including translation of vital documents and interpretation services deemed necessary to provide meaningful access to City services.
· A U.S. Census Bureau ISpeak card is available as part of this document and on the City's webpage and is also available at City Hall located at 414 Main Street. This card allows LEP individuals to communicate their preferred language to City Staff whereas City Staff may then access a translation service called LanguageLine, phone number 1-800-752-6096 is available to City Staff or other translation services may be used as determined by the City.
· For language translation requests from the Hispanic or Latino community the City has several staff member who are bilingual and are available to provide translation services on a day to day basis.
· The City of Canton utilizes a voluntary public involvement survey to collect information regarding persons affected by proposed projects. The survey permits respondents to remain

anonymous, while voluntarily answering questions regarding their gender, ethnicity, race, age, sex, disability status, and household income. This voluntary public involvement survey is available at all public hearings and meetings. Once the survey data has been collected, it will be reviewed and then the survey will be placed in a file for future reference. In the case enough surveys are collected over time to show a significant increase in LEP populations, the City may consider changes to their LEP policy. Completed surveys shall be retained for a period of three years from the date of the meeting and/or completion of the related project, if applicable. See Appendix G for a sample of this Survey.

· The City reviews written Title VI complaints and ensures every effort is made to resolve complaints informally at the local or regional level and review and update the City's Title VI plan and procedures as required.

· Staff for the City will be provided training on the requirements for providing meaningful access to services for LEP persons. Considering the relatively small size of the City of Canton and limited financial resources, current training may be limited to web access to this document and it's attachments by all City Staff, a log showing the names of all Staff that have been made aware of this document (sign off that they have read the document) and require that all new employees receive the same training.

(SAMPLE COPY)
Waste Disposal Agreement for Projects in the City of Canton

Items 1, 3 - 9 are optional and discretionary to the undersigned

THIS WASTE AGREEMENT, made this _____ day of _____ 20___ , by and between _____ (called "Contractor"), and _____ of _____ (called "Land Owner"), concerning a certain construction contract between the Contractor and _____ in the City of Canton, OH for the _____ (project), as follows:

1. MANNER OF WASTING: Land Owner grants to Contractor the exclusive right to place dirt, earth, rock, topsoil, subsurface, unsuitable and/or other excess material (called "waste material") upon the area described in the following paragraph without requirement, limit, or restriction as to depth, amount, manner, or time.
2. WASTE AREA: The property upon which Contractor is permitted to place material is commonly known as _____ (address).
3. TITLE TO WASTE AREA: The Land Owner warrants that it has title to and the right to contract for placement of waste material in said area and agrees to defend and indemnify Contractor against any claim, suit, or damage arising out of such title or right to contract.
4. ACCESS AND USE: Land Owner hereby grants Contractor the right of ingress and egress to the waste area in locations to be selected by Contractor for all purposes necessary to the complete fulfillment of this agreement, and the right of quiet enjoyment in the intended use of such area.
5. PAYMENT: Contractor agrees to pay and Land Owner agrees to accept as full and final compensation for all rights granted and covenants contained herein and all claims of every nature the sum of _____ payable _____ .
6. BASIS OF MEASUREMENTS: It is mutually agreed that measurement of the amount of materials wasted, where required, shall be made on the following basis: _____ and said measurement shall be binding upon the parties hereto for all purposes.
7. DAMAGES: Land Owner hereby waives any and all claims for damage to the waste area and to the area of ingress and egress except as specifically noted herein.
8. RELEASE: Upon receipt of final payment hereunder, and provided all terms of this agreement have been fulfilled, Land Owner hereby releases Contractor from further liability of any kind or nature hereunder.

WITNESSES:

_____

_____

_____

_____

CONTRACTOR:

_____
Authorized Signature & Title

LANDOWNER:

_____
Signature

9. ENTIRE AGREEMENT: It is agreed that the terms and conditions of this agreement are fully covered in the foregoing, and that any oral or written statements made by either party, or agents claiming to represent either party, not set forth herein, are not binding on the parties and are not considered as part of this Agreement.
10. DISCLAIMER: The City of Canton is not a party to the here above agreement. The Contractor and Landowner shall indemnify and save harmless the City of Canton from any claim that may arise from the here above agreement. The waste material is the property of the Contractor, not the City of Canton.

Signature Page
Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349

To the Director of Public Service of the City of Canton:

The undersigned, having carefully examined the complete invitation to bid, herewith proposes to furnish all the labor and materials required to complete the **Middle Branch Nimishillen Creek Stormwater Constructed Wetland, GP1349** in accordance with the specifications on file, including any and all work and materials that may be necessary to complete the project in a proper and workmanlike manner, and in accordance with the instructions in the bid packet and under the direction of and to the satisfaction of the Director of Public Service of said City.

The bidder hereby agrees that the Director of Public Service has the right to reject any and all bids and to accept the bid(s) deemed most beneficial to the City of Canton.

The bidder hereby certifies that the undersigned _____ is the only person interested in the bid and the bidder herewith certifies that no officer or employee of the City of Canton is in any manner interested therein.

The bidder herewith encloses a _____**(BID BOND, CERTIFIED/CASHIER'S CHECK)** in the sum of $ _____ dollars made payable to the CITY OF CANTON as a guaranty that if awarded the contract for the work included in the proposal, _____ will enter into contract therefore, with sureties satisfactory to the Director of Public Service, within the prescribed time of ten (10) days from the date of service of notice of award, otherwise such bond or checks shall become the property of said City, as liquidated damages of the failure on the bidder's part to do said contract within the specified time.

The bidder acknowledges receipt of Addenda Numbers: _____.

SIGNATURE OF BIDDER: _____.

NOTE: **If bidder is a corporation, set forth the legal name of the corporation, together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If bidder is a partnership, set forth the name of the firm, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.**

MIDDLE BRANCH NIMISHILLEN CREEK STORMWATER CONSTRUCTED WETLAND, GP1349

Re-Bid

We (I), the above signed hereby propose to furnish the following article(s) and/or service(s) at the price(s) and terms stated subject to all instruction, conditions, specifications, and all attachments hereto. We (I) have read all attachments including the specifications and fully understand what is required.

Bidder's Sheet

REF NO.	ODOT ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT MATERIAL PRICE $	UNIT LABOR PRICE $	UNIT PRICE $	ITEM TOTAL PRICE $
1	201	~~Clearing & Grubbing, including tree removal~~	LS	0				
2	203	Excavation and Embankment, As Per Plan	LS	1				
3	601	Rock Channel Protection Type C w/Aggregate Filter (headwall and channel outlet)	CY	20				
4	611	24" HDPE Conduit, As Per Plan	LF	120				
5	614	Maintaining Traffic	LS	1				
6	623	Construction Layout Stakes and Surveying	LS	1				
7	624	Mobilization	LS	1				
8	651	Stripping and Stockpiling Topsoil	CY	510				
9	652	Placing Stockpiled Topsoil	CY	510				
10	659	Seeding and Mulching, Class 1	SY	7,319				
11	659	Seeding and Mulching, Riparian Buffer Mix	SY	3,702				
12	659	Seeding and Mulching, Floodplain Mix	SY	1,327				
13	671	Erosion Control Blanket, As Per Plan	SY	4,862				
14	SPEC	~~Diversion Manhole~~ Existing Manhole Modification	LS	1				
15	SPEC	Headwall with Wingwalls	LS	1				
16	SPEC	~~Live Stakes~~	EA	0				
17	SPEC	Mud Log Sill with Coir Log	LF	80				
18	SPEC	Riffle	EA	2				
19	SPEC	Temporary Sediment Controls	LS	1				
							TOTAL $ =	

Base Bid Price in Figures: _____

Base Bid Price in Words: _____

Base Bid Prices are for Informational Purposes Only.
Total Unit Prices will govern.