

October 5, 2023

Benjamin McPherson, P.E.
Professional Engineer 1 (Environmental)
Division of Environmental Remediation
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

Subject: Carbon Efficiency

In Situ Solidification

Riverview Innovation & Technology Campus

3875 River Road

Town of Tonawanda, New York

Site No. C915353

Dear Mr. McPherson,

As you are aware, the bench-scale testing being conducted for the Pre-design Investigations is well underway. To date, combinations of Lime Kiln Dust (LKD) and breeze and Portland cement and breeze have been effective for all samples except those from the Tar Management Area (Source Area Solidification Interim Remedial Measure Work Plan [Solidification Work Plan], October 5, 2023). Additional testing of samples from the Tar Management Area will be conducted in the near future.

Breeze has been a critical component of the bench-scale tests as both an absorbent and aggregate. The New York State Department of Environmental Conservation (NYSDEC) requested testing of the breeze for total organic carbon to investigate whether the breeze is adsorbing organic compounds into the materials matrix as well as absorbing liquid phases.

Analytical testing of the breeze showed the total organic carbon content was 78-percent (Attachment A). The availability of total organic carbon in the breeze as an adsorption agent is unknown. To determine if there is a third mechanism (in addition to hydration of the binding agent and absorption) affecting the efficiency of the stabilization process, Inventum conducted adsorption trials. The tests allowed evaluation of the effect of direct contact between site groundwater and the breeze, absent the hydration and binding agent mechanisms.

A bulk sample was collected from Sump #2 adjacent to the light oil area. An aliquot of the bulk sample and a sample of breeze were submitted for Volatile Organic Compounds (VOC) via EPA method 8260, Semi-volatile Organic Compounds (SVOC) via EPA method 8270, Ammonia (350.1) and Cyanide (335.1) analyses.



Photograph No. 1 Test Setup

The breeze in each sample vessel was saturated with groundwater from the Sump #2 bulk sample. Multiple trials were tested as in the initial tests the breeze absorbed all the liquid, producing no sample for analytical testing. This result in itself was informative in demonstrating the high capacity of the breeze to absorb and hold liquid.

As a basis for comparison five samples were tested:



- BreezeTest-01-09132023 Raw water from Sump 2
- BreezeTest-02-09152023 Sump 2 water after 24-hours in contact with breeze
- BreezeTest-03-09152023 Sump 2 water after 24-hours in contact with breeze
- BreezeTest-04-09152023 Sump 2 water after 24-hours in contact with clean gravel
- BreezeTest-05-09152023 Distilled water after 24-hours in contact with clean gravel

The laboratory report is presented in Attachment A. A summary table of the pre- and post-testing groundwater quality (detections only) is shown below:

| | Class GA Ambient Water Quality Standards and Guidance Values | Units | | eTest-01- 132023 | | zeTest-02- 0152023 | | zeTest-03- 0152023 | | zeTest-04- 9152023 | | zeTest-05- 152023 |
|---------------------|---|------------|-------|---------------------|--------|-----------------------|--------|-----------------------|-------|-----------------------|--------|----------------------|
| | Sar | nple Date | 9/1 | 3/2023 | 9/: | 15/2023 | 9/: | 15/2023 | 9/ | 15/2023 | 9/: | 15/2023 |
| | Sample Do | escription | Su | mp 2 | | 2 & Breeze mple 01 | | 2 & Breeze mple 02 | Sump | 2 & Gravel | | ed Water & Gravel |
| TCL VOCs (SW8260C) | | | | | | | | | | | | |
| Acetone | 50 | ug/l | 236 | | 19.4 | | 17.1 | | 24.4 | | 14.1 | |
| Benzene | 1 | ug/l | 519 | | <1.00 | U | <1.00 | U | <1.00 | U | <1.00 | U |
| Toluene | 5 | ug/l | 67.2 | | <2.00 | U | <2.00 | U | <2.00 | U | <2.00 | |
| m,p-Xylene | 5 | ug/l | 44.8 | | <2.00 | U | <2.00 | U | <2.00 | U | <2.00 | U |
| Total VOCs | - | ug/l | 867 | | 19.4 | | 17.1 | | 24.4 | | 14.1 | |
| Percent Difference | - | % | - | | 97.8 | | 98.0 | | 97.2 | | - | |
| TCL SVOCs (SW8270D) | | | | | | | | | | | | |
| Phenanthrene | - | ug/l | <10.0 | U | <10.0 | U | <10.0 | U | <10.0 | U | 17.5 | |
| Cyanide (SW9012B) | | | | | | | | | | | | |
| Cyanide | 0.20 | mg/l | 0.200 | | 0.0560 | | 0.0930 | | 0.140 | | <0.010 | U |
| Percent Difference | - | % | - | | 72.0 | | 53.5 | | 30.0 | | - | |
| Ammonia (SM4500) | | | | l . | | | | | | | | |
| Ammonia, as N | 2 | mg/l | 7.7 | | 1.2 | | 1.5 | | 4.0 | | <0.1 | U |
| Percent Difference | - | % | - | | 84.4 | | 80.5 | | 48.1 | | - | |

The testing demonstrates that introduction of the water into either the breeze or gravel matrix reduces the concentrations of VOCs. The fact the laboratory detected acetone in the distilled water sample suggests laboratory contamination and effectively 100% removal of VOCs associated with the coke and by-product processing at the Site. The effectiveness of the breeze over an inert aggregate is demonstrated by more effective removal of cyanide and ammonia.

A summary of the breeze analyses (detections only) is shown below.

- Breeze-08172023 Coke breeze used in the initial solidification testing trials.
- BreezeTest-06-09152023 Coke breeze used in the adsorption trials.



| | | CAMPLE ID. | BREEZE-(| 08172023 | BREEZETEST-06-09152023 | | |
|--|------------------|--------------|--------------------|-------------------------|-------------------------|--------|--|
| | | SAMPLE ID: | 122/17 | 700-01 | 234271 | | |
| | COL | 8/17/ | | 9/15/2023 0 - 2' BGS | | | |
| | COLLECTION DATE: | | 0-2 | | | | |
| ANALYTE | | AMPLE DEPTH: | Coke E | | | | |
| | NY-RESC | MPLE MATRIX: | | | Coke Br | eeze | |
| | NY-RESC | NY-RESI | Breeze u | | Breeze u | sed in | |
| | (mg/kg) | (mg/kg) | solidificat sca | | Adsorption bench scale. | | |
| VOLATILE ORGANICS BY GC/MS | | | | | | | |
| cis-1,2-Dichloroethene | 500 | 1000 | 0.0032 | | <0.008 | U | |
| Ethylbenzene | 390 | 780 | 0.00028 | J | <0.008 | U | |
| o-Xylene | | | 0.00036 | J | <0.008 | U | |
| p/m-Xylene | | | 0.00084 | J | <0.008 | U | |
| Toluene | 500 | 1000 | 0.0012 | | <0.008 | U | |
| SEMIVOLATILE ORGANICS BY GC/MS | | | | | | | |
| 2-Methylnaphthalene | | | 1.3 | | 0.765 | | |
| 3-Methylphenol/4-Methylphenol | 500 | 1000 | 0.15 | J | <0.272 | U | |
| Acenaphthene | 500 | 1000 | 0.64 | J | 1.13 | | |
| Acenaphthylene | 500 | 1000 | 2.7 | | <0.272 | U | |
| Anthracene | 500 | 1000 | 4 | | 0.985 | | |
| Benzo(a)anthracene | 5.6 | 11 | 9.1 | | 3.43 | | |
| Benzo(a)pyrene | 1 | 1.1 | 9.5 | | 6.43 | | |
| Benzo(b)fluoranthene | 5.6 | 11 | 12 | | 6.32 | | |
| Benzo(ghi)perylene | 500 | 1000 | 6 | | 5.01 | | |
| Benzo(k)fluoranthene | 56 | 110 | 2.9 | | 3.05 | | |
| Biphenyl | | | 0.34 | J | <0.272 | U | |
| Carbazole | | | 1.3 | | 0.32 | | |
| Chrysene | 56 | 110 | 9.8 | | 4.21 | | |
| Dibenzo(a,h)anthracene | 0.56 | 1.1 | 1.5 | | 1.5 | | |
| Dibenzofuran | 350 | 1000 | 1.7 | | 0.326 | | |
| Fluoranthene | 500 | 1000 | 24 | | <0.272 | U | |
| Fluorene | 500 | 1000 | 2.9 | | <0.272 | U | |
| Indeno(1,2,3-cd)pyrene | 5.6 | 11 | 5.6 | | 3.78 | | |
| Naphthalene | 500 | 1000 | 5 | | 1.19 | | |
| Phenanthrene | 500 | 1000 | 18 | | 2.8 | | |
| Phenol | 500 | 1000 | 0.15 | J | <0.272 | U | |
| Pyrene | 500 | 1000 | 18 | | 4.52 | - | |
| | | | | | | | |
| TOTAL METALS | | | | | | | |
| Aluminum, Total | | | 1760 | | NS | | |
| Arsenic, Total | 16 | 16 | 5.38 | | NS | | |
| Barium, Total | 400 | 10000 | 35.5 | | NS | | |
| Beryllium, Total | 590 | 2700 | 0.268 | J | NS | | |
| Calcium, Total | | | 4740 | | NS | | |
| Chromium, Total | | | 5.44 | | NS | | |
| Cobalt, Total | | | 2.36 | | NS | | |
| Copper, Total | 270 | 10000 | 17.1 | | NS | | |
| Iron, Total | | | 6210 | | NS | | |
| Lead, Total | 1000 | 3900 | 8.57 | | NS | | |
| Magnesium, Total | - | | 991 | | NS | | |
| Manganese, Total | 10000 | 10000 | 76.2 | | NS | | |
| Mercury, Total | 2.8 | 5.7 | 0.075 | J | NS | | |
| Nickel, Total | 310 | 10000 | 5.17 | | NS | | |
| Potassium, Total | | | 233 | | NS | | |
| Selenium, Total | 1500 | 6800 | 1.12 | J | NS | | |
| Sodium, Total | | | 116 | J | NS | | |
| Vanadium, Total Zinc, Total | 10000 | 10000 | 4.08 23.6 | | NS NS | | |
| Zinc, rotai | 10000 | 10000 | 23.0 | | CFI | | |
| GENERAL CHEMISTRY | | | | | | _ | |
| Cyanide, Total | 27 | 10000 | 0.75 | J | <0.50 | U | |
| Nitrogen, Ammonia | | | 9.1 | | <10.0 | U | |
| Solids, Total | | | 85.3 | | NS | | |
| | | | | | | | |
| TOTAL ORGANIC CARBON Total Organic Carbon (%) | | | 70 | | NC | | |
| Total Organic Carbon (%) | | | 78 | | NS | | |



The breeze contains numerous SVOCs, none of which were detected in the effluent water of the adsorption testing. This confirms that the SVOCs are immobile and do not leach from the breeze when in contact with water.

The benefit of using breeze is that it will provide both immediate and long-term absorption of coal related compounds in the solidified mass. The material is available and will be tested in accordance with the Solidification Work Plan prior to use.

Please let us know if you have any comments or questions.

Sincerely yours,

John P. Black

Partner

Attachment

Ecc: John Yensan, OSC

Dan Flanagan, OSC Roxanne Birx, Inventum Peter Zaffram, Inventum Angela Martin, NYSDOH Andrea Caprio, NYSDEC



Engineering Certification

I, John P. Black certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this report of the Carbon Efficiency testing was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Respectfully Submitted,

Inventum Engineering, P.C.

Date:

License No:

John P Black, P.E.



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Attachment A – Laboratory Reports





ANALYTICAL REPORT

Lab Number: L2347700

Client: Inventum Engineering

441 Carlisle Drive

Suite C

Herndon, NY 20170

ATTN: John Black Phone: (571) 752-6562

Project Name: RITC

Project Number: BENCH SCALE-TOC

Report Date: 08/31/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number:

L2347700

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------------------|----------|--------------------|----------------------|--------------|
| L2347700-01 | BREEZE-08172023 | SEDIMENT | 3875 RIVER ROAD | 08/17/23 11:35 | 08/17/23 |
| L2347700-02 | SS-BCP-24-02-08172023 | SEDIMENT | 3875 RIVER ROAD | 08/17/23 11:45 | 08/17/23 |
| L2347700-03 | SS-BCP-24-04-08172023 | SEDIMENT | 3875 RIVER ROAD | 08/17/23 11:45 | 08/17/23 |
| L2347700-04 | SS-BCP-24-06-08172023 | SEDIMENT | 3875 RIVER ROAD | 08/17/23 11:48 | 08/17/23 |



Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

| Please contact Project Management at 800-624-9220 with any questions. | |
|---|--|
| | |



Project Name:RITCLab Number:L2347700Project Number:BENCH SCALE-TOCReport Date:08/31/23

Case Narrative (continued)

Report Submission

August 31, 2023: This final report includes the results of all requested analyses.

August 28, 2023: This is a preliminary report. August 24, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L2347700-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Cyanide, Total

The WG1817873-3 LCSD recovery for cyanide, total (77%), associated with L2347700-01 and -02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1817875-3 LCSD recovery for cyanide, total (76%), associated with L2347700-03 and -04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Nitrogen, Ammonia

The WG1817932-3 Laboratory Duplicate RPD for nitrogen, ammonia (150%), performed on L2347700-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the



Project Name:RITCLab Number:L2347700Project Number:BENCH SCALE-TOCReport Date:08/31/23

Case Narrative (continued)

native sample.

Total Organic Carbon

WG1820886: The required batch QC was prepared; however, the native sample required a different reporting method; therefore, the associated QC results could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 08/31/23

Custen Walker Cristin Walker

ORGANICS



VOLATILES



L2347700

Project Name: RITC Lab Number:

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01 Date Collected: 08/17/23 11:35

Client ID: BREEZE-08172023 Date Received: 08/17/23
Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
Analytical Method: 1,8260D
Analytical Date: 08/23/23 14:03

Analyst: AJK Percent Solids: 85%

| Volatile Organics by GC/MS - Westboroug | ıh Lab | | | | | |
|---|--------|---|-------|------|------|---|
| | | | | | | |
| Methylene chloride | ND | | ug/kg | 5.8 | 2.6 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.17 | 1 |
| Chloroform | ND | | ug/kg | 1.7 | 0.16 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 1.2 | 0.27 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 1.2 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/kg | 1.2 | 0.16 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.31 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.58 | 0.23 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.58 | 0.15 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 4.6 | 0.80 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 1.2 | 0.30 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.58 | 0.19 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.58 | 0.13 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.2 | 0.32 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.58 | 0.18 | 1 |
| Bromoform | ND | | ug/kg | 4.6 | 0.28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.58 | 0.19 | 1 |
| Benzene | ND | | ug/kg | 0.58 | 0.19 | 1 |
| Toluene | 1.2 | | ug/kg | 1.2 | 0.63 | 1 |
| Ethylbenzene | 0.28 | J | ug/kg | 1.2 | 0.16 | 1 |
| Chloromethane | ND | | ug/kg | 4.6 | 1.1 | 1 |
| Bromomethane | ND | | ug/kg | 2.3 | 0.67 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.2 | 0.39 | 1 |
| Chloroethane | ND | | ug/kg | 2.3 | 0.52 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 1.2 | 0.28 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.7 | 0.16 | 1 |
| Trichloroethene | ND | | ug/kg | 0.58 | 0.16 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 2.3 | 0.17 | 1 |



Project Name: Lab Number: **RITC** L2347700

Project Number: Report Date: BENCH SCALE-TOC 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01 Date Collected: 08/17/23 11:35

Client ID: Date Received: 08/17/23 BREEZE-08172023 Sample Location: Field Prep: 3875 RIVER ROAD Not Specified

Sample Depth:

| 1.4-Dichlorobenzene | Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|-----------------------------------|-------------|-----------|-------|-----|------|-----------------|
| 1.4-Dichlorobenzene ND ug/kg 2.3 0.20 1 Methyl tert butyl ether ND ug/kg 2.3 0.23 1 p/m-Xylene 0.84 J ug/kg 2.3 0.65 1 o-Xylene 0.36 J ug/kg 1.2 0.34 1 cis-1,2-Dichloroethene 3.2 ug/kg 1.2 0.20 1 Styrene ND ug/kg 1.2 0.23 1 Dichlorodifluoromethane ND ug/kg 1.2 0.23 1 Acetone ND ug/kg 1.2 0.23 1 Carbon disulfide ND ug/kg 1.2 5.6 1 Carbon disulfide ND ug/kg 1.2 5.6 1 Carbon disulfide ND ug/kg 1.2 5.6 1 4-Methyl-2-pentanone ND ug/kg 1.2 1.5 1 2-Hexanone ND ug/kg 1.2 1 | Volatile Organics by GC/MS - West | borough Lab | | | | | |
| 1,4-Dichlorobenzene ND ug/kg 2.3 0.20 1 Methyl tert butyl ether ND ug/kg 2.3 0.23 1 p/m-Xylene 0.84 J ug/kg 2.3 0.65 1 o-Xylene 0.36 J ug/kg 1.2 0.34 1 cis-1,2-Dichloroethene 3.2 ug/kg 1.2 0.20 1 Styrene ND ug/kg 1.2 0.23 1 Dichlorodifluoromethane ND ug/kg 12 1.0 1 Acetone ND ug/kg 12 5.6 1 Carbon disulfide ND ug/kg 12 5.6 1 2-Butanone ND ug/kg 12 5.3 1 4-Methyl-2-pentanone ND ug/kg 12 1.5 1 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 1.2 0.32 | 1,3-Dichlorobenzene | ND | | ug/kg | 2.3 | 0.17 | 1 |
| Dichiorodifluoromethane ND | 1,4-Dichlorobenzene | ND | | ug/kg | 2.3 | 0.20 | 1 |
| o-Xylene 0.36 J ug/kg 1.2 0.34 1 cis-1,2-Dichloroethene 3.2 ug/kg 1.2 0.20 1 Styrene ND ug/kg 1.2 0.23 1 Dichlorodifluoromethane ND ug/kg 12 1.0 1 Acetone ND ug/kg 12 5.6 1 Carbon disulfide ND ug/kg 12 5.6 1 Carbon disulfide ND ug/kg 12 5.3 1 2-Butanone ND ug/kg 12 2.6 1 4-Methyl-2-pentanone ND ug/kg 12 1.5 1 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 Isopropylbenzene ND ug/kg 2.3 0.37 1 | Methyl tert butyl ether | ND | | ug/kg | 2.3 | 0.23 | 1 |
| Styrene ND | p/m-Xylene | 0.84 | J | ug/kg | 2.3 | 0.65 | 1 |
| ND | o-Xylene | 0.36 | J | ug/kg | 1.2 | 0.34 | 1 |
| Dichlorodifluoromethane | cis-1,2-Dichloroethene | 3.2 | | ug/kg | 1.2 | 0.20 | 1 |
| Acetone ND ug/kg 12 5.6 1 Carbon disulfide ND ug/kg 12 5.3 1 2-Butanone ND ug/kg 12 2.6 1 4-Methyl-2-pentanone ND ug/kg 12 1.5 1 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromoe3-chloropropane ND ug/kg 3.5 1.2 1 Isopropylbenzene ND ug/kg 1.2 0.13 1 Isopropylbenzene ND ug/kg 2.3 0.37 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 | Styrene | ND | | ug/kg | 1.2 | 0.23 | 1 |
| Carbon disulfide ND ug/kg 12 5.3 1 2-Butanone ND ug/kg 12 2.6 1 4-Methyl-2-pentanone ND ug/kg 12 1.5 1 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromoethane ND ug/kg 3.5 1.2 1 1,2-Dibromoethane ND ug/kg 3.5 1.2 1 1,2-Dibromoethane ND ug/kg 3.5 1.2 1 1,2-Dibromoethane ND ug/kg 1.2 0.13 1 1,2-Dibromoethane ND ug/kg 2.3 0.37 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 4.6 1.1 1 | Dichlorodifluoromethane | ND | | ug/kg | 12 | 1.0 | 1 |
| 2-Butanone ND ug/kg 12 2.6 1 4-Methyl-2-pentanone ND ug/kg 12 1.5 1 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromoethane ND ug/kg 3.5 1.2 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 4.6 1.1 1 1,4-Dioxane ND ug/kg 93 41. 1 Freon-113 ND ug/kg 93 41. 1 | Acetone | ND | | ug/kg | 12 | 5.6 | 1 |
| 4-Methyl-2-pentanone ND ug/kg 12 1.5 1 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromoethane ND ug/kg 3.5 1.2 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 Isopropylbenzene ND ug/kg 1.2 0.13 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 1,2,4-Trichlorobenzene ND ug/kg 3.5 1.1 1 1,2,4-Trichlorobenzene ND ug/kg 3.5 1.2 1 1,4-Dioxane ND ug/kg 4.6 1.1 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 1.5 1 1.5 1 1.4 1 1.5 1 | Carbon disulfide | ND | | ug/kg | 12 | 5.3 | 1 |
| 2-Hexanone ND ug/kg 12 1.4 1 Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 Isopropylbenzene ND ug/kg 1.2 0.13 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41. 1 Freon-113 ND ug/kg 93 41. 1 | 2-Butanone | ND | | ug/kg | 12 | 2.6 | 1 |
| Bromochloromethane ND ug/kg 2.3 0.24 1 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 1,2-Dibromo-3-chloropropane ND ug/kg 1.2 0.13 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41 1 Freon-113 ND ug/kg 4.6 0.80 1 | 4-Methyl-2-pentanone | ND | | ug/kg | 12 | 1.5 | 1 |
| 1,2-Dibromoethane ND ug/kg 1.2 0.32 1 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 Isopropylbenzene ND ug/kg 1.2 0.13 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41. 1 Freon-113 ND ug/kg 4.6 0.80 1 | 2-Hexanone | ND | | ug/kg | 12 | 1.4 | 1 |
| 1,2-Dibromo-3-chloropropane ND ug/kg 3.5 1.2 1 Isopropylbenzene ND ug/kg 1.2 0.13 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41 1 Freon-113 ND ug/kg 4.6 0.80 1 | Bromochloromethane | ND | | ug/kg | 2.3 | 0.24 | 1 |
| Sopropylbenzene ND ug/kg 1.2 0.13 1 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41 1 Freon-113 ND ug/kg 4.6 0.80 1 | 1,2-Dibromoethane | ND | | ug/kg | 1.2 | 0.32 | 1 |
| 1,2,3-Trichlorobenzene ND ug/kg 2.3 0.37 1 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41 1 Freon-113 ND ug/kg 4.6 0.80 1 | 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.5 | 1.2 | 1 |
| 1,2,4-Trichlorobenzene ND ug/kg 2.3 0.32 1 Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41 1 Freon-113 ND ug/kg 4.6 0.80 1 | Isopropylbenzene | ND | | ug/kg | 1.2 | 0.13 | 1 |
| Methyl Acetate ND ug/kg 4.6 1.1 1 Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41. 1 Freon-113 ND ug/kg 4.6 0.80 1 | 1,2,3-Trichlorobenzene | ND | | ug/kg | 2.3 | 0.37 | 1 |
| Cyclohexane ND ug/kg 12 0.63 1 1,4-Dioxane ND ug/kg 93 41. 1 Freon-113 ND ug/kg 4.6 0.80 1 | 1,2,4-Trichlorobenzene | ND | | ug/kg | 2.3 | 0.32 | 1 |
| 1,4-Dioxane ND ug/kg 93 41. 1 Freon-113 ND ug/kg 4.6 0.80 1 | Methyl Acetate | ND | | ug/kg | 4.6 | 1.1 | 1 |
| Freon-113 ND ug/kg 4.6 0.80 1 | Cyclohexane | ND | | ug/kg | 12 | 0.63 | 1 |
| *9**9 | 1,4-Dioxane | ND | | ug/kg | 93 | 41. | 1 |
| Methyl cyclohexane ND ug/kg 4.6 0.70 1 | Freon-113 | ND | | ug/kg | 4.6 | 0.80 | 1 |
| | Methyl cyclohexane | ND | | ug/kg | 4.6 | 0.70 | 1 |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | |
| Toluene-d8 | 103 | 70-130 | |
| 4-Bromofluorobenzene | 117 | 70-130 | |
| Dibromofluoromethane | 101 | 70-130 | |



Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/23/23 08:25

Analyst: AJK

| arameter | Result | Qualifier Units | RL | MDL |
|-----------------------------|-----------------|-----------------|-----------|-------------|
| olatile Organics by GC/MS - | Westborough Lab | for sample(s): | 01 Batch: | WG1819331-5 |
| Methylene chloride | ND | ug/kṣ | g 5.0 | 2.3 |
| 1,1-Dichloroethane | ND | ug/kṣ | g 1.0 | 0.14 |
| Chloroform | ND | ug/k | g 1.5 | 0.14 |
| Carbon tetrachloride | ND | ug/k | g 1.0 | 0.23 |
| 1,2-Dichloropropane | ND | ug/k | g 1.0 | 0.12 |
| Dibromochloromethane | ND | ug/k | g 1.0 | 0.14 |
| 1,1,2-Trichloroethane | ND | ug/k | g 1.0 | 0.27 |
| Tetrachloroethene | ND | ug/k | g 0.50 | 0.20 |
| Chlorobenzene | ND | ug/k | g 0.50 | 0.13 |
| Trichlorofluoromethane | ND | ug/k | g 4.0 | 0.70 |
| 1,2-Dichloroethane | ND | ug/k | g 1.0 | 0.26 |
| 1,1,1-Trichloroethane | ND | ug/k | g 0.50 | 0.17 |
| Bromodichloromethane | ND | ug/k | g 0.50 | 0.11 |
| trans-1,3-Dichloropropene | ND | ug/k | g 1.0 | 0.27 |
| cis-1,3-Dichloropropene | ND | ug/k | g 0.50 | 0.16 |
| Bromoform | ND | ug/k | g 4.0 | 0.25 |
| 1,1,2,2-Tetrachloroethane | ND | ug/k | g 0.50 | 0.17 |
| Benzene | ND | ug/k | g 0.50 | 0.17 |
| Toluene | ND | ug/k | g 1.0 | 0.54 |
| Ethylbenzene | ND | ug/k | g 1.0 | 0.14 |
| Chloromethane | ND | ug/k | g 4.0 | 0.93 |
| Bromomethane | ND | ug/k | g 2.0 | 0.58 |
| Vinyl chloride | ND | ug/k | g 1.0 | 0.34 |
| Chloroethane | ND | ug/k | g 2.0 | 0.45 |
| 1,1-Dichloroethene | ND | ug/k | g 1.0 | 0.24 |
| trans-1,2-Dichloroethene | ND | ug/k | g 1.5 | 0.14 |
| Trichloroethene | ND | ug/k | g 0.50 | 0.14 |
| 1,2-Dichlorobenzene | ND | ug/k | g 2.0 | 0.14 |
| 1,3-Dichlorobenzene | ND | ug/k | g 2.0 | 0.15 |



Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/23/23 08:25

Analyst: AJK

| Parameter | Result | Qualifier Units | RL | MDL |
|--------------------------------|---------------|-------------------|--------|-------------|
| olatile Organics by GC/MS - We | stborough Lab | for sample(s): 01 | Batch: | WG1819331-5 |
| 1,4-Dichlorobenzene | ND | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether | ND | ug/kg | 2.0 | 0.20 |
| p/m-Xylene | ND | ug/kg | 2.0 | 0.56 |
| o-Xylene | ND | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene | ND | ug/kg | 1.0 | 0.18 |
| Styrene | ND | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane | ND | ug/kg | 10 | 0.92 |
| Acetone | ND | ug/kg | 10 | 4.8 |
| Carbon disulfide | ND | ug/kg | 10 | 4.6 |
| 2-Butanone | ND | ug/kg | 10 | 2.2 |
| 4-Methyl-2-pentanone | ND | ug/kg | 10 | 1.3 |
| 2-Hexanone | ND | ug/kg | 10 | 1.2 |
| Bromochloromethane | ND | ug/kg | 2.0 | 0.20 |
| 1,2-Dibromoethane | ND | ug/kg | 1.0 | 0.28 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 3.0 | 1.0 |
| Isopropylbenzene | ND | ug/kg | 1.0 | 0.11 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 2.0 | 0.32 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 2.0 | 0.27 |
| Methyl Acetate | ND | ug/kg | 4.0 | 0.95 |
| Cyclohexane | ND | ug/kg | 10 | 0.54 |
| 1,4-Dioxane | ND | ug/kg | 80 | 35. |
| Freon-113 | ND | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane | ND | ug/kg | 4.0 | 0.60 |
| | | | | |



Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/23/23 08:25

Analyst: AJK

Parameter Result Qualifier Units RL MDL

Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1819331-5

| | | Acceptance |
|-----------------------|--------------|-------------------|
| Surrogate | %Recovery Qu | ualifier Criteria |
| | | |
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |
| Dibromofluoromethane | 107 | 70-130 |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|--|------------------|--------------|-------------------|----------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS - Westborough | Lab Associated | sample(s): 0 | 1 Batch: WG1 | 819331-3 | WG1819331-4 | | | | |
| Methylene chloride | 97 | | 91 | | 70-130 | 6 | | 30 | |
| 1,1-Dichloroethane | 102 | | 93 | | 70-130 | 9 | | 30 | |
| Chloroform | 88 | | 81 | | 70-130 | 8 | | 30 | |
| Carbon tetrachloride | 95 | | 83 | | 70-130 | 13 | | 30 | |
| 1,2-Dichloropropane | 97 | | 92 | | 70-130 | 5 | | 30 | |
| Dibromochloromethane | 102 | | 98 | | 70-130 | 4 | | 30 | |
| 1,1,2-Trichloroethane | 106 | | 102 | | 70-130 | 4 | | 30 | |
| Tetrachloroethene | 115 | | 101 | | 70-130 | 13 | | 30 | |
| Chlorobenzene | 102 | | 97 | | 70-130 | 5 | | 30 | |
| Trichlorofluoromethane | 112 | | 96 | | 70-139 | 15 | | 30 | |
| 1,2-Dichloroethane | 96 | | 93 | | 70-130 | 3 | | 30 | |
| 1,1,1-Trichloroethane | 98 | | 87 | | 70-130 | 12 | | 30 | |
| Bromodichloromethane | 94 | | 89 | | 70-130 | 5 | | 30 | |
| trans-1,3-Dichloropropene | 99 | | 98 | | 70-130 | 1 | | 30 | |
| cis-1,3-Dichloropropene | 98 | | 98 | | 70-130 | 0 | | 30 | |
| Bromoform | 93 | | 92 | | 70-130 | 1 | | 30 | |
| 1,1,2,2-Tetrachloroethane | 97 | | 92 | | 70-130 | 5 | | 30 | |
| Benzene | 99 | | 93 | | 70-130 | 6 | | 30 | |
| Toluene | 103 | | 94 | | 70-130 | 9 | | 30 | |
| Ethylbenzene | 106 | | 97 | | 70-130 | 9 | | 30 | |
| Chloromethane | 108 | | 95 | | 52-130 | 13 | | 30 | |
| Bromomethane | 95 | | 86 | | 57-147 | 10 | | 30 | |
| Vinyl chloride | 114 | | 94 | | 67-130 | 19 | | 30 | |
| | | | | | | | | | |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | RPD Qual Limits |
|---|------------------|---------------|-------------------|------------|---------------------|-----|--------------------|
| olatile Organics by GC/MS - Westborough | Lab Associated | sample(s): 01 | Batch: WG1 | 819331-3 V | NG1819331-4 | | |
| Chloroethane | 101 | | 91 | | 50-151 | 10 | 30 |
| 1,1-Dichloroethene | 106 | | 92 | | 65-135 | 14 | 30 |
| trans-1,2-Dichloroethene | 102 | | 94 | | 70-130 | 8 | 30 |
| Trichloroethene | 108 | | 99 | | 70-130 | 9 | 30 |
| 1,2-Dichlorobenzene | 101 | | 94 | | 70-130 | 7 | 30 |
| 1,3-Dichlorobenzene | 105 | | 98 | | 70-130 | 7 | 30 |
| 1,4-Dichlorobenzene | 103 | | 98 | | 70-130 | 5 | 30 |
| Methyl tert butyl ether | 96 | | 94 | | 66-130 | 2 | 30 |
| p/m-Xylene | 110 | | 101 | | 70-130 | 9 | 30 |
| o-Xylene | 106 | | 99 | | 70-130 | 7 | 30 |
| cis-1,2-Dichloroethene | 97 | | 79 | | 70-130 | 20 | 30 |
| Styrene | 110 | | 105 | | 70-130 | 5 | 30 |
| Dichlorodifluoromethane | 115 | | 96 | | 30-146 | 18 | 30 |
| Acetone | 95 | | 97 | | 54-140 | 2 | 30 |
| Carbon disulfide | 104 | | 90 | | 59-130 | 14 | 30 |
| 2-Butanone | 86 | | 90 | | 70-130 | 5 | 30 |
| 4-Methyl-2-pentanone | 95 | | 90 | | 70-130 | 5 | 30 |
| 2-Hexanone | 94 | | 91 | | 70-130 | 3 | 30 |
| Bromochloromethane | 98 | | 84 | | 70-130 | 15 | 30 |
| 1,2-Dibromoethane | 104 | | 102 | | 70-130 | 2 | 30 |
| 1,2-Dibromo-3-chloropropane | 108 | | 100 | | 68-130 | 8 | 30 |
| Isopropylbenzene | 107 | | 95 | | 70-130 | 12 | 30 |
| 1,2,3-Trichlorobenzene | 98 | | 97 | | 70-130 | 1 | 30 |



Project Name: RITC

Project Number:

BENCH SCALE-TOC

Lab Number:

L2347700

Report Date:

08/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|---|---|------|-------------------|------|---------------------|-------|------|---------------|--|
| Volatile Organics by GC/MS - Westborough La | <u>, </u> | | • | | WG1819331-4 | 7.0.2 | | | |
| | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 99 | | 98 | | 70-130 | 1 | | 30 | |
| Methyl Acetate | 102 | | 94 | | 51-146 | 8 | | 30 | |
| Cyclohexane | 110 | | 72 | | 59-142 | 42 | Q | 30 | |
| 1,4-Dioxane | 99 | | 88 | | 65-136 | 12 | | 30 | |
| Freon-113 | 112 | | 96 | | 50-139 | 15 | | 30 | |
| Methyl cyclohexane | 107 | | 92 | | 70-130 | 15 | | 30 | |

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|-----------------------|-----------------------|------------------------|------------------------|
| 1,2-Dichloroethane-d4 | 96 | 96 | 70-130 |
| Toluene-d8 | 102 | 102 | 70-130 |
| 4-Bromofluorobenzene | 96 | 94 | 70-130 |
| Dibromofluoromethane | 90 | 90 | 70-130 |

SEMIVOLATILES



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01 D Date Collected: 08/17/23 11:35

Client ID: BREEZE-08172023 Date Received: 08/17/23
Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

Matrix: Sediment Extraction Method: EPA 3546
Analytical Method: 1.8270E Extraction Date: 08/20/23 04:30

Analytical Method: 1,8270E Extraction Date: 08/20/23 04:30
Analytical Date: 08/21/23 16:03

Analyst: JG Percent Solids: 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|---------------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - We | stborough Lab | | | | | |
| Acenaphthene | 640 | J | ug/kg | 770 | 99. | 5 |
| Hexachlorobenzene | ND | | ug/kg | 580 | 110 | 5 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 860 | 130 | 5 |
| 2-Chloronaphthalene | ND | | ug/kg | 960 | 95. | 5 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 960 | 260 | 5 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 960 | 190 | 5 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 960 | 160 | 5 |
| Fluoranthene | 24000 | | ug/kg | 580 | 110 | 5 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 960 | 100 | 5 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 960 | 150 | 5 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 1200 | 160 | 5 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 1000 | 96. | 5 |
| Hexachlorobutadiene | ND | | ug/kg | 960 | 140 | 5 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 2700 | 870 | 5 |
| Hexachloroethane | ND | | ug/kg | 770 | 160 | 5 |
| Isophorone | ND | | ug/kg | 860 | 120 | 5 |
| Naphthalene | 5000 | | ug/kg | 960 | 120 | 5 |
| Nitrobenzene | ND | | ug/kg | 860 | 140 | 5 |
| NDPA/DPA | ND | | ug/kg | 770 | 110 | 5 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 960 | 150 | 5 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 960 | 330 | 5 |
| Butyl benzyl phthalate | ND | | ug/kg | 960 | 240 | 5 |
| Di-n-butylphthalate | ND | | ug/kg | 960 | 180 | 5 |
| Di-n-octylphthalate | ND | | ug/kg | 960 | 330 | 5 |
| Diethyl phthalate | ND | | ug/kg | 960 | 89. | 5 |
| Dimethyl phthalate | ND | | ug/kg | 960 | 200 | 5 |
| Benzo(a)anthracene | 9100 | | ug/kg | 580 | 110 | 5 |
| Benzo(a)pyrene | 9500 | | ug/kg | 770 | 230 | 5 |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01 D Date Collected: 08/17/23 11:35

Client ID: BREEZE-08172023 Date Received: 08/17/23
Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|----------------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | |
| Benzo(b)fluoranthene | 12000 | | ug/kg | 580 | 160 | 5 |
| Benzo(k)fluoranthene | 2900 | | ug/kg | 580 | 150 | 5 |
| Chrysene | 9800 | | ug/kg | 580 | 100 | 5 |
| Acenaphthylene | 2700 | | ug/kg | 770 | 150 | 5 |
| Anthracene | 4000 | | ug/kg | 580 | 190 | 5 |
| Benzo(ghi)perylene | 6000 | | ug/kg | 770 | 110 | 5 |
| Fluorene | 2900 | | ug/kg | 960 | 93. | 5 |
| Phenanthrene | 18000 | | ug/kg | 580 | 120 | 5 |
| Dibenzo(a,h)anthracene | 1500 | | ug/kg | 580 | 110 | 5 |
| Indeno(1,2,3-cd)pyrene | 5600 | | ug/kg | 770 | 130 | 5 |
| Pyrene | 18000 | | ug/kg | 580 | 95. | 5 |
| Biphenyl | 340 | J | ug/kg | 2200 | 120 | 5 |
| 4-Chloroaniline | ND | | ug/kg | 960 | 170 | 5 |
| 2-Nitroaniline | ND | | ug/kg | 960 | 180 | 5 |
| 3-Nitroaniline | ND | | ug/kg | 960 | 180 | 5 |
| 4-Nitroaniline | ND | | ug/kg | 960 | 400 | 5 |
| Dibenzofuran | 1700 | | ug/kg | 960 | 91. | 5 |
| 2-Methylnaphthalene | 1300 | | ug/kg | 1200 | 120 | 5 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 960 | 100 | 5 |
| Acetophenone | ND | | ug/kg | 960 | 120 | 5 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 580 | 180 | 5 |
| p-Chloro-m-cresol | ND | | ug/kg | 960 | 140 | 5 |
| 2-Chlorophenol | ND | | ug/kg | 960 | 110 | 5 |
| 2,4-Dichlorophenol | ND | | ug/kg | 860 | 150 | 5 |
| 2,4-Dimethylphenol | ND | | ug/kg | 960 | 320 | 5 |
| 2-Nitrophenol | ND | | ug/kg | 2100 | 360 | 5 |
| 4-Nitrophenol | ND | | ug/kg | 1300 | 390 | 5 |
| 2,4-Dinitrophenol | ND | | ug/kg | 4600 | 450 | 5 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 2500 | 460 | 5 |
| Pentachlorophenol | ND | | ug/kg | 770 | 210 | 5 |
| Phenol | 150 | J | ug/kg | 960 | 140 | 5 |
| 2-Methylphenol | ND | | ug/kg | 960 | 150 | 5 |
| 3-Methylphenol/4-Methylphenol | 150 | J | ug/kg | 1400 | 150 | 5 |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 960 | 180 | 5 |
| Carbazole | 1300 | | ug/kg | 960 | 93. | 5 |
| Atrazine | ND | | ug/kg | 770 | 340 | 5 |
| Benzaldehyde | ND | | ug/kg | 1300 | 260 | 5 |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01 D Date Collected: 08/17/23 11:35

Client ID: BREEZE-08172023 Date Received: 08/17/23
Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------|-------------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS | - Westborough Lab | | | | | |
| Caprolactam | ND | | ug/kg | 960 | 290 | 5 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/kg | 960 | 190 | 5 |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 28 | 25-120 |
| Phenol-d6 | 36 | 10-120 |
| Nitrobenzene-d5 | 69 | 23-120 |
| 2-Fluorobiphenyl | 86 | 30-120 |
| 2,4,6-Tribromophenol | 51 | 10-136 |
| 4-Terphenyl-d14 | 77 | 18-120 |
| | | |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 08/21/23 14:06

Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 08/20/23 04:30

| arameter | Result | Qualifier | Units | | RL | MDL |
|-------------------------------|---------------|-----------|-----------|----|--------|-------------|
| emivolatile Organics by GC/MS | - Westborough | Lab for s | ample(s): | 01 | Batch: | WG1817942-1 |
| Acenaphthene | ND | | ug/kg | | 130 | 17. |
| Hexachlorobenzene | ND | | ug/kg | | 99 | 18. |
| Bis(2-chloroethyl)ether | ND | | ug/kg | | 150 | 22. |
| 2-Chloronaphthalene | ND | | ug/kg | | 160 | 16. |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | | 160 | 44. |
| 2,4-Dinitrotoluene | ND | | ug/kg | | 160 | 33. |
| 2,6-Dinitrotoluene | ND | | ug/kg | | 160 | 28. |
| Fluoranthene | ND | | ug/kg | | 99 | 19. |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | | 160 | 18. |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | | 160 | 25. |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | | 200 | 28. |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | | 180 | 17. |
| Hexachlorobutadiene | ND | | ug/kg | | 160 | 24. |
| Hexachlorocyclopentadiene | ND | | ug/kg | | 470 | 150 |
| Hexachloroethane | ND | | ug/kg | | 130 | 27. |
| Isophorone | ND | | ug/kg | | 150 | 22. |
| Naphthalene | ND | | ug/kg | | 160 | 20. |
| Nitrobenzene | ND | | ug/kg | | 150 | 24. |
| NDPA/DPA | ND | | ug/kg | | 130 | 19. |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | | 160 | 26. |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | | 160 | 57. |
| Butyl benzyl phthalate | ND | | ug/kg | | 160 | 42. |
| Di-n-butylphthalate | ND | | ug/kg | | 160 | 31. |
| Di-n-octylphthalate | ND | | ug/kg | | 160 | 56. |
| Diethyl phthalate | ND | | ug/kg | | 160 | 15. |
| Dimethyl phthalate | ND | | ug/kg | | 160 | 35. |
| Benzo(a)anthracene | ND | | ug/kg | | 99 | 19. |
| Benzo(a)pyrene | ND | | ug/kg | | 130 | 40. |
| Benzo(b)fluoranthene | ND | | ug/kg | | 99 | 28. |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 08/21/23 14:06

Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 08/20/23 04:30

| Parameter | Result | Qualifier | Units | | RL | MDL | |
|----------------------------------|-------------|-----------|------------|----|--------|-------------|--|
| Semivolatile Organics by GC/MS - | Westborough | Lab for s | sample(s): | 01 | Batch: | WG1817942-1 | |
| Benzo(k)fluoranthene | ND | | ug/kg | | 99 | 26. | |
| Chrysene | ND | | ug/kg | | 99 | 17. | |
| Acenaphthylene | ND | | ug/kg | | 130 | 26. | |
| Anthracene | ND | | ug/kg | | 99 | 32. | |
| Benzo(ghi)perylene | ND | | ug/kg | | 130 | 19. | |
| Fluorene | ND | | ug/kg | | 160 | 16. | |
| Phenanthrene | ND | | ug/kg | | 99 | 20. | |
| Dibenzo(a,h)anthracene | ND | | ug/kg | | 99 | 19. | |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | | 130 | 23. | |
| Pyrene | ND | | ug/kg | | 99 | 16. | |
| Biphenyl | ND | | ug/kg | | 380 | 22. | |
| 4-Chloroaniline | ND | | ug/kg | | 160 | 30. | |
| 2-Nitroaniline | ND | | ug/kg | | 160 | 32. | |
| 3-Nitroaniline | ND | | ug/kg | | 160 | 31. | |
| 4-Nitroaniline | ND | | ug/kg | | 160 | 68. | |
| Dibenzofuran | ND | | ug/kg | | 160 | 16. | |
| 2-Methylnaphthalene | ND | | ug/kg | | 200 | 20. | |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | | 160 | 17. | |
| Acetophenone | ND | | ug/kg | | 160 | 20. | |
| 2,4,6-Trichlorophenol | ND | | ug/kg | | 99 | 31. | |
| p-Chloro-m-cresol | ND | | ug/kg | | 160 | 25. | |
| 2-Chlorophenol | ND | | ug/kg | | 160 | 20. | |
| 2,4-Dichlorophenol | ND | | ug/kg | | 150 | 27. | |
| 2,4-Dimethylphenol | ND | | ug/kg | | 160 | 55. | |
| 2-Nitrophenol | ND | | ug/kg | | 360 | 62. | |
| 4-Nitrophenol | ND | | ug/kg | | 230 | 68. | |
| 2,4-Dinitrophenol | ND | | ug/kg | | 800 | 77. | |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | | 430 | 80. | |
| Pentachlorophenol | ND | | ug/kg | | 130 | 36. | |



L2347700

Lab Number:

Project Name: RITC

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 08/21/23 14:06

Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 08/20/23 04:30

| arameter | Result | Qualifier Units | RL | MDL | |
|--------------------------------|---------------|--------------------|-----------|-------------|--|
| Semivolatile Organics by GC/MS | - Westborough | Lab for sample(s): | 01 Batch: | WG1817942-1 | |
| Phenol | ND | ug/kg | 160 | 25. | |
| 2-Methylphenol | ND | ug/kg | 160 | 26. | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 240 | 26. | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 160 | 32. | |
| Carbazole | ND | ug/kg | 160 | 16. | |
| Atrazine | ND | ug/kg | 130 | 58. | |
| Benzaldehyde | ND | ug/kg | 220 | 45. | |
| Caprolactam | ND | ug/kg | 160 | 50. | |
| 2,3,4,6-Tetrachlorophenol | ND | ug/kg | 160 | 33. | |
| | | | | | |

| Surrogate | %Recovery Qua | Acceptance alifier Criteria |
|----------------------|---------------|--------------------------------|
| 2-Fluorophenol | 94 | 25-120 |
| Phenol-d6 | 97 | 10-120 |
| Nitrobenzene-d5 | 83 | 23-120 |
| 2-Fluorobiphenyl | 113 | 30-120 |
| 2,4,6-Tribromophenol | 119 | 10-136 |
| 4-Terphenyl-d14 | 119 | 18-120 |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

| arameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | RPD Qual Limits |
|--------------------------------|--------------------------|-----------------|-------------------|-------------|---------------------|-----|--------------------|
| Semivolatile Organics by GC/MS | - Westborough Lab Associ | ated sample(s): | 01 Batch: | WG1817942-2 | 2 WG1817942-3 | | |
| Acenaphthene | 72 | | 87 | | 31-137 | 19 | 50 |
| Hexachlorobenzene | 88 | | 101 | | 40-140 | 14 | 50 |
| Bis(2-chloroethyl)ether | 64 | | 76 | | 40-140 | 17 | 50 |
| 2-Chloronaphthalene | 83 | | 95 | | 40-140 | 13 | 50 |
| 3,3'-Dichlorobenzidine | 90 | | 102 | | 40-140 | 13 | 50 |
| 2,4-Dinitrotoluene | 89 | | 103 | | 40-132 | 15 | 50 |
| 2,6-Dinitrotoluene | 91 | | 100 | | 40-140 | 9 | 50 |
| Fluoranthene | 80 | | 90 | | 40-140 | 12 | 50 |
| 4-Chlorophenyl phenyl ether | 82 | | 96 | | 40-140 | 16 | 50 |
| 4-Bromophenyl phenyl ether | 85 | | 98 | | 40-140 | 14 | 50 |
| Bis(2-chloroisopropyl)ether | 62 | | 76 | | 40-140 | 20 | 50 |
| Bis(2-chloroethoxy)methane | 66 | | 77 | | 40-117 | 15 | 50 |
| Hexachlorobutadiene | 83 | | 104 | | 40-140 | 22 | 50 |
| Hexachlorocyclopentadiene | 92 | | 110 | | 40-140 | 18 | 50 |
| Hexachloroethane | 60 | | 72 | | 40-140 | 18 | 50 |
| Isophorone | 67 | | 76 | | 40-140 | 13 | 50 |
| Naphthalene | 72 | | 88 | | 40-140 | 20 | 50 |
| Nitrobenzene | 66 | | 76 | | 40-140 | 14 | 50 |
| NDPA/DPA | 80 | | 92 | | 36-157 | 14 | 50 |
| n-Nitrosodi-n-propylamine | 67 | | 78 | | 32-121 | 15 | 50 |
| Bis(2-ethylhexyl)phthalate | 81 | | 96 | | 40-140 | 17 | 50 |
| Butyl benzyl phthalate | 76 | | 87 | | 40-140 | 13 | 50 |
| Di-n-butylphthalate | 77 | | 91 | | 40-140 | 17 | 50 |
| | | | | | | | |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | RPD Qual Limits |
|---|------------------|------------------|-------------------|-------------|---------------------|-----|--------------------|
| Semivolatile Organics by GC/MS - Westbord | ough Lab Assoc | iated sample(s): | 01 Batch: | WG1817942-2 | 2 WG1817942-3 | | |
| Di-n-octylphthalate | 82 | | 97 | | 40-140 | 17 | 50 |
| Diethyl phthalate | 77 | | 89 | | 40-140 | 14 | 50 |
| Dimethyl phthalate | 84 | | 93 | | 40-140 | 10 | 50 |
| Benzo(a)anthracene | 81 | | 95 | | 40-140 | 16 | 50 |
| Benzo(a)pyrene | 83 | | 107 | | 40-140 | 25 | 50 |
| Benzo(b)fluoranthene | 75 | | 93 | | 40-140 | 21 | 50 |
| Benzo(k)fluoranthene | 76 | | 100 | | 40-140 | 27 | 50 |
| Chrysene | 79 | | 95 | | 40-140 | 18 | 50 |
| Acenaphthylene | 83 | | 93 | | 40-140 | 11 | 50 |
| Anthracene | 79 | | 92 | | 40-140 | 15 | 50 |
| Benzo(ghi)perylene | 82 | | 103 | | 40-140 | 23 | 50 |
| Fluorene | 78 | | 92 | | 40-140 | 16 | 50 |
| Phenanthrene | 77 | | 91 | | 40-140 | 17 | 50 |
| Dibenzo(a,h)anthracene | 84 | | 105 | | 40-140 | 22 | 50 |
| Indeno(1,2,3-cd)pyrene | 85 | | 106 | | 40-140 | 22 | 50 |
| Pyrene | 79 | | 90 | | 35-142 | 13 | 50 |
| Biphenyl | 86 | | 97 | | 37-127 | 12 | 50 |
| 4-Chloroaniline | 63 | | 73 | | 40-140 | 15 | 50 |
| 2-Nitroaniline | 95 | | 106 | | 47-134 | 11 | 50 |
| 3-Nitroaniline | 81 | | 91 | | 26-129 | 12 | 50 |
| 4-Nitroaniline | 83 | | 94 | | 41-125 | 12 | 50 |
| Dibenzofuran | 80 | | 95 | | 40-140 | 17 | 50 |
| 2-Methylnaphthalene | 79 | | 92 | | 40-140 | 15 | 50 |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|-----------------|-------------------|-------------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westbor | ough Lab Associa | ated sample(s): | 01 Batch: | WG1817942-2 | 2 WG1817942-3 | | | |
| 1,2,4,5-Tetrachlorobenzene | 89 | | 106 | | 40-117 | 17 | | 50 |
| Acetophenone | 72 | | 85 | | 14-144 | 17 | | 50 |
| 2,4,6-Trichlorophenol | 94 | | 108 | | 30-130 | 14 | | 50 |
| p-Chloro-m-cresol | 74 | | 82 | | 26-103 | 10 | | 50 |
| 2-Chlorophenol | 75 | | 87 | | 25-102 | 15 | | 50 |
| 2,4-Dichlorophenol | 90 | | 100 | | 30-130 | 11 | | 50 |
| 2,4-Dimethylphenol | 73 | | 81 | | 30-130 | 10 | | 50 |
| 2-Nitrophenol | 87 | | 103 | | 30-130 | 17 | | 50 |
| 4-Nitrophenol | 70 | | 80 | | 11-114 | 13 | | 50 |
| 2,4-Dinitrophenol | 66 | | 75 | | 4-130 | 13 | | 50 |
| 4,6-Dinitro-o-cresol | 107 | | 120 | | 10-130 | 11 | | 50 |
| Pentachlorophenol | 99 | | 108 | | 17-109 | 9 | | 50 |
| Phenol | 74 | | 82 | | 26-90 | 10 | | 50 |
| 2-Methylphenol | 76 | | 86 | | 30-130. | 12 | | 50 |
| 3-Methylphenol/4-Methylphenol | 75 | | 86 | | 30-130 | 14 | | 50 |
| 2,4,5-Trichlorophenol | 101 | | 108 | | 30-130 | 7 | | 50 |
| Carbazole | 78 | | 90 | | 54-128 | 14 | | 50 |
| Atrazine | 80 | | 86 | | 40-140 | 7 | | 50 |
| Benzaldehyde | 103 | | 126 | | 40-140 | 20 | | 50 |
| Caprolactam | 71 | | 79 | | 15-130 | 11 | | 50 |
| 2,3,4,6-Tetrachlorophenol | 91 | | 103 | | 40-140 | 12 | | 50 |



Project Name: RITC Batch Quality Con

Lab Number:

L2347700

Project Number: BENCH SCALE-TOC

Report Date:

08/31/23

| | LCS | | LCSD | | %Recovery | | | RPD |
|-----------|-----------|------|-----------|------|-----------|-----|------|--------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits |

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1817942-2 WG1817942-3

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 76 | 84 | 25-120 |
| Phenol-d6 | 79 | 86 | 10-120 |
| Nitrobenzene-d5 | 69 | 79 | 23-120 |
| 2-Fluorobiphenyl | 90 | 98 | 30-120 |
| 2,4,6-Tribromophenol | 108 | 119 | 10-136 |
| 4-Terphenyl-d14 | 83 | 91 | 18-120 |



METALS



08/17/23 11:35

Date Collected:

Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01

Client ID: BREEZE-08172023 Date Received: 08/17/23
Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Percent Solids: 85% Dilution Date Date Prep Analytical Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analy

| Parameter | Result | Qualifier | Units | RL | MDL | Factor | Prepared | Analyzed | Method | Method | Analyst |
|--------------------|-------------|-----------|-------|-------|-------|--------|---------------|------------------|-----------|---------|---------|
| Total Metals - Mar | nsfield Lab | | | | | | | | | | |
| Aluminum, Total | 1760 | | mg/kg | 9.15 | 2.47 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Antimony, Total | ND | | mg/kg | 4.58 | 0.348 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Arsenic, Total | 5.38 | | mg/kg | 0.915 | 0.190 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Barium, Total | 35.5 | | mg/kg | 0.915 | 0.159 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Beryllium, Total | 0.268 | J | mg/kg | 0.458 | 0.030 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Cadmium, Total | ND | | mg/kg | 0.915 | 0.090 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Calcium, Total | 4740 | | mg/kg | 9.15 | 3.20 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Chromium, Total | 5.44 | | mg/kg | 0.915 | 0.088 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Cobalt, Total | 2.36 | | mg/kg | 1.83 | 0.152 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Copper, Total | 17.1 | | mg/kg | 0.915 | 0.236 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Iron, Total | 6210 | | mg/kg | 4.58 | 0.826 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Lead, Total | 8.57 | | mg/kg | 4.58 | 0.245 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Magnesium, Total | 991 | | mg/kg | 9.15 | 1.41 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Manganese, Total | 76.2 | | mg/kg | 0.915 | 0.146 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Mercury, Total | 0.075 | J | mg/kg | 0.086 | 0.056 | 1 | 08/22/23 17:1 | 8 08/28/23 17:42 | EPA 7471B | 1,7471B | DMB |
| Nickel, Total | 5.17 | | mg/kg | 2.29 | 0.221 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Potassium, Total | 233 | | mg/kg | 229 | 13.2 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Selenium, Total | 1.12 | J | mg/kg | 1.83 | 0.236 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Silver, Total | ND | | mg/kg | 0.458 | 0.259 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Sodium, Total | 116 | J | mg/kg | 183 | 2.88 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Thallium, Total | ND | | mg/kg | 1.83 | 0.288 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Vanadium, Total | 4.08 | | mg/kg | 0.915 | 0.186 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |
| Zinc, Total | 23.6 | | mg/kg | 4.58 | 0.268 | 2 | 08/22/23 16:4 | 3 08/30/23 19:02 | EPA 3050B | 1,6010D | JTS |



Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number:

L2347700

Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

| Parameter | Result Q | ualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--------------------------|------------|----------|----------|---------|---------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield | Lab for sa | mple(s): | 01 Batch | n: WG18 | 818746- | 1 | | | | |
| Aluminum, Total | ND | | mg/kg | 4.00 | 1.08 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Antimony, Total | 0.922 | J | mg/kg | 2.00 | 0.152 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Arsenic, Total | ND | | mg/kg | 0.400 | 0.083 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Barium, Total | ND | | mg/kg | 0.400 | 0.070 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Beryllium, Total | ND | | mg/kg | 0.200 | 0.013 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Calcium, Total | ND | | mg/kg | 4.00 | 1.40 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Chromium, Total | ND | | mg/kg | 0.400 | 0.038 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Cobalt, Total | 0.091 | J | mg/kg | 0.800 | 0.066 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Copper, Total | ND | | mg/kg | 0.400 | 0.103 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Iron, Total | 0.751 | J | mg/kg | 2.00 | 0.361 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Magnesium, Total | ND | | mg/kg | 4.00 | 0.616 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Manganese, Total | ND | | mg/kg | 0.400 | 0.064 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Nickel, Total | ND | | mg/kg | 1.00 | 0.097 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Potassium, Total | ND | | mg/kg | 100 | 5.76 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Selenium, Total | ND | | mg/kg | 0.800 | 0.103 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Silver, Total | ND | | mg/kg | 0.200 | 0.113 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Sodium, Total | 1.46 | J | mg/kg | 80.0 | 1.26 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Thallium, Total | 0.198 | J | mg/kg | 0.800 | 0.126 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Vanadium, Total | ND | | mg/kg | 0.400 | 0.081 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |
| Zinc, Total | ND | | mg/kg | 2.00 | 0.117 | 1 | 08/22/23 16:43 | 08/30/23 18:55 | 1,6010D | JTS |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytica Method | Analyst |
|--------------------|----------------------------|----------|---------|---------|--------------------|------------------|------------------|---------------------|---------|
| Total Metals - Mar | nsfield Lab for sample(s): | 01 Batch | n: WG18 | 318748- | 1 | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | 0.054 | 1 | 08/22/23 17:18 | 08/28/23 17:22 | 1,7471B | DMB |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis Batch Quality Control

Project Name: RITC

Project Number:

BENCH SCALE-TOC

Lab Number:

L2347700

Report Date:

08/31/23

| arameter | LCS %Recovery | Qual % | LCSD Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-------------------|-------------|------------------|------------|---------------------|-----|------|------------|
| otal Metals - Mansfield Lab Associated sampl | e(s): 01 Batch: \ | WG1818746-2 | SRM Lot N | lumber: D1 | 19-540 | | | |
| Aluminum, Total | 79 | | - | | 48-152 | - | | |
| Antimony, Total | 174 | | - | | 10-190 | - | | |
| Arsenic, Total | 104 | | - | | 83-117 | - | | |
| Barium, Total | 102 | | - | | 82-118 | - | | |
| Beryllium, Total | 102 | | - | | 83-117 | - | | |
| Cadmium, Total | 94 | | - | | 82-117 | - | | |
| Calcium, Total | 101 | | - | | 81-118 | - | | |
| Chromium, Total | 104 | | - | | 82-119 | - | | |
| Cobalt, Total | 100 | | - | | 83-117 | - | | |
| Copper, Total | 96 | | - | | 84-116 | - | | |
| Iron, Total | 110 | | - | | 60-140 | - | | |
| Lead, Total | 102 | | - | | 82-118 | - | | |
| Magnesium, Total | 92 | | - | | 76-124 | - | | |
| Manganese, Total | 115 | | - | | 82-118 | - | | |
| Nickel, Total | 98 | | - | | 82-117 | - | | |
| Potassium, Total | 92 | | - | | 70-130 | - | | |
| Selenium, Total | 106 | | - | | 79-121 | - | | |
| Silver, Total | 102 | | - | | 80-120 | - | | |
| Sodium, Total | 99 | | - | | 74-126 | - | | |
| Thallium, Total | 100 | | - | | 81-119 | - | | |
| Vanadium, Total | 98 | | - | | 79-121 | - | | |



Lab Control Sample Analysis Batch Quality Control

Project Name: RITC

Project Number:

BENCH SCALE-TOC

Lab Number:

L2347700

Report Date:

08/31/23

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|--|-------------------------------|----------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associate | ed sample(s): 01 Batch: WG181 | 8746-2 SRM Lot Numbe | r: D119-540 | | |
| Zinc, Total | 104 | - | 80-120 | - | |
| Total Metals - Mansfield Lab Associate | ed sample(s): 01 Batch: WG181 | 8748-2 SRM Lot Numbe | r: D119-540 | | |
| Mercury, Total | 100 | - | 73-127 | - | |



Matrix Spike Analysis Batch Quality Control

Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number: L2347700

Report Date: 08/31/23

| arameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Recovery Qual Limits | | Qual | RPD Limits |
|--------------------------|--------------------|-------------|-------------|-----------------|------|--------------|------------------|-------------------------|--------|------|---------------|
| Total Metals - Mansfield | Lab Associated sar | mple(s): 01 | QC Batch | ID: WG181874 | 16-3 | QC Sample | e: L2347595-01 | Client ID: MS S | Sample | | |
| Aluminum, Total | 6260 | 183 | 8150 | 1030 | Q | - | - | 75-125 | - | | 20 |
| Antimony, Total | ND | 45.8 | 47.6 | 104 | | - | - | 75-125 | - | | 20 |
| Arsenic, Total | 5.05 | 11 | 16.6 | 105 | | - | - | 75-125 | - | | 20 |
| Barium, Total | 66.5 | 183 | 246 | 98 | | - | - | 75-125 | - | | 20 |
| Beryllium, Total | 0.507 | 4.58 | 5.11 | 100 | | - | - | 75-125 | - | | 20 |
| Cadmium, Total | ND | 4.85 | 4.39 | 90 | | - | - | 75-125 | - | | 20 |
| Calcium, Total | 2310 | 915 | 3350 | 114 | | - | - | 75-125 | - | | 20 |
| Chromium, Total | 28.2 | 18.3 | 41.1 | 70 | Q | - | - | 75-125 | - | | 20 |
| Cobalt, Total | 6.15 | 45.8 | 49.1 | 94 | | - | - | 75-125 | - | | 20 |
| Copper, Total | 11.5 | 22.9 | 34.7 | 101 | | - | - | 75-125 | - | | 20 |
| Iron, Total | 12400 | 91.5 | 12700 | 328 | Q | - | - | 75-125 | - | | 20 |
| Lead, Total | 60.5 | 48.5 | 116 | 114 | | - | - | 75-125 | - | | 20 |
| Magnesium, Total | 3790 | 915 | 2410 | 0 | Q | - | - | 75-125 | - | | 20 |
| Manganese, Total | 240 | 45.8 | 252 | 26 | Q | - | - | 75-125 | - | | 20 |
| Nickel, Total | 42.2 | 45.8 | 54.4 | 27 | Q | - | - | 75-125 | - | | 20 |
| Potassium, Total | 580 | 915 | 1550 | 106 | | - | - | 75-125 | - | | 20 |
| Selenium, Total | 0.219J | 11 | 10.9 | 99 | | - | - | 75-125 | - | | 20 |
| Silver, Total | ND | 4.58 | 4.69 | 102 | | - | - | 75-125 | - | | 20 |
| Sodium, Total | 55.7J | 915 | 941 | 103 | | - | - | 75-125 | - | | 20 |
| Thallium, Total | ND | 11 | 10.9 | 99 | | - | - | 75-125 | - | | 20 |
| Vanadium, Total | 25.6 | 45.8 | 69.9 | 97 | | - | - | 75-125 | - | | 20 |



Matrix Spike Analysis Batch Quality Control

Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number:

L2347700

Report Date:

08/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|-----------------------------|-------------------|-------------|-------------|-----------------|--------------|------------------|--------------------|-------|---------------|
| Total Metals - Mansfield La | ab Associated sam | ple(s): 01 | QC Batch | ID: WG1818746-3 | QC Sample | : L2347595-01 | Client ID: MS Sa | ample | |
| Zinc, Total | 51.2 | 45.8 | 94.3 | 94 | - | - | 75-125 | - | 20 |
| Total Metals - Mansfield La | ab Associated sam | ple(s): 01 | QC Batch | ID: WG1818748-3 | QC Sample | : L2347595-01 | Client ID: MS Sa | ample | |
| Mercury, Total | ND | 1.7 | 1.77 | 104 | - | - | 80-120 | - | 20 |



Lab Duplicate Analysis Batch Quality Control

Project Name: RITC

Project Number: BENCH SCALE-TOC

 Lab Number:
 L2347700

 Report Date:
 08/31/23

| arameter | Native Sample D | ouplicate Sample | Units | RPD | Qual | RPD Limits |
|--|------------------------|------------------|---------------|--------------|-----------|------------|
| otal Metals - Mansfield Lab Associated sample(s): 01 | QC Batch ID: WG1818746 | i-4 QC Sample: L | .2347595-01 (| Client ID: D | UP Sample | |
| Aluminum, Total | 6260 | 6160 | mg/kg | 2 | | 20 |
| Antimony, Total | ND | ND | mg/kg | NC | | 20 |
| Arsenic, Total | 5.05 | 4.99 | mg/kg | 1 | | 20 |
| Barium, Total | 66.5 | 63.9 | mg/kg | 4 | | 20 |
| Beryllium, Total | 0.507 | 0.486 | mg/kg | 4 | | 20 |
| Cadmium, Total | ND | ND | mg/kg | NC | | 20 |
| Chromium, Total | 28.2 | 20.1 | mg/kg | 34 | Q | 20 |
| Cobalt, Total | 6.15 | 4.40 | mg/kg | 33 | Q | 20 |
| Copper, Total | 11.5 | 15.8 | mg/kg | 32 | Q | 20 |
| Iron, Total | 12400 | 11700 | mg/kg | 6 | | 20 |
| Lead, Total | 60.5 | 56.7 | mg/kg | 6 | | 20 |
| Manganese, Total | 240 | 219 | mg/kg | 9 | | 20 |
| Nickel, Total | 42.2 | 9.12 | mg/kg | 129 | Q | 20 |
| Selenium, Total | 0.219J | 0.261J | mg/kg | NC | | 20 |
| Silver, Total | ND | 0.160J | mg/kg | NC | | 20 |
| Thallium, Total | ND | ND | mg/kg | NC | | 20 |
| Vanadium, Total | 25.6 | 25.9 | mg/kg | 1 | | 20 |
| Zinc, Total | 51.2 | 45.1 | mg/kg | 13 | | 20 |
| | | | | | | |



Lab Number:

Lab Duplicate Analysis

Batch Quality Control

L2347700

08/31/23 **Project Number:** BENCH SCALE-TOC Report Date:

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|---|----------------------|-------------------------|-------------|-----------------------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01 | QC Batch ID: WG18187 | 748-4 QC Sample: L | _2347595-01 | Client ID: DUP Sample | |
| Mercury, Total | ND | ND | mg/kg | NC | 20 |



Project Name:

RITC

INORGANICS & MISCELLANEOUS



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-01 Date Collected: 08/17/23 11:35

Client ID: BREEZE-08172023 Date Received: 08/17/23 Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|---------------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Organic Carbon - | Mansfield Lal | b | | | | | | | | |
| Total Organic Carbon | 78.0 | | % | 0.010 | 0.010 | 1 | - | 08/28/23 08:43 | 1,9060A | SPP |
| General Chemistry - We | estborough La | ab | | | | | | | | |
| Solids, Total | 85.3 | | % | 0.100 | NA | 1 | - | 08/18/23 13:45 | 121,2540G | ROI |
| Cyanide, Total | 0.75 | J | mg/kg | 1.1 | 0.24 | 1 | 08/19/23 16:00 | 08/21/23 15:14 | 1,9010C/9012B | KEP |
| Nitrogen, Ammonia | 9.1 | | mg/kg | 8.3 | 3.1 | 1 | 08/20/23 10:40 | 08/20/23 17:22 | 121,4500NH3-BH | AVT |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-02 Date Collected: 08/17/23 11:45

Client ID: SS-BCP-24-02-08172023 Date Received: 08/17/23 Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Vestborough Lab | | | | | | | | | |
| Solids, Total | 93.0 | | % | 0.100 | NA | 1 | - | 08/18/23 13:45 | 121,2540G | ROI |
| Cyanide, Total | 29 | | mg/kg | 2.0 | 0.43 | 2 | 08/19/23 16:00 | 08/21/23 16:11 | 1,9010C/9012B | KEP |
| Nitrogen, Ammonia | 9.9 | | mg/kg | 8.0 | 3.0 | 1 | 08/20/23 10:40 | 08/20/23 17:25 | 121,4500NH3-BH | I AVT |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-03 Date Collected: 08/17/23 11:45

Client ID: SS-BCP-24-04-08172023 Date Received: 08/17/23 Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Vestborough Lab | | | | | | | | | |
| Solids, Total | 89.0 | | % | 0.100 | NA | 1 | - | 08/18/23 13:45 | 121,2540G | ROI |
| Cyanide, Total | 53 | | mg/kg | 5.3 | 1.1 | 5 | 08/19/23 16:00 | 08/21/23 16:13 | 1,9010C/9012B | KEP |
| Nitrogen, Ammonia | 150 | | mg/kg | 7.3 | 2.7 | 1 | 08/20/23 10:40 | 08/20/23 17:26 | 121,4500NH3-BH | I AVT |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

SAMPLE RESULTS

Lab ID: L2347700-04 Date Collected: 08/17/23 11:48

Client ID: SS-BCP-24-06-08172023 Date Received: 08/17/23 Sample Location: 3875 RIVER ROAD Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - V | Vestborough Lab | | | | | | | | | |
| Solids, Total | 91.9 | | % | 0.100 | NA | 1 | - | 08/18/23 13:45 | 121,2540G | ROI |
| Cyanide, Total | 25 | | mg/kg | 2.0 | 0.43 | 2 | 08/19/23 16:00 | 08/21/23 16:14 | 1,9010C/9012B | KEP |
| Nitrogen, Ammonia | 20 | | mg/kg | 6.4 | 2.4 | 1 | 08/20/23 10:40 | 08/20/23 17:27 | 121,4500NH3-BH | AVT |



Project Name: RITC Lab Number: L2347700

Project Number: BENCH SCALE-TOC Report Date: 08/31/23

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualif | ier Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|---------------------|---------------|---------|----------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | estborough Lab for | sample(s): 01 | I-02 Ba | itch: WC | G1817873- | 1 | | | |
| Cyanide, Total | ND | mg/kg | 0.86 | 0.18 | 1 | 08/19/23 16:00 | 08/21/23 15:10 | 1,9010C/9012E | 3 KEP |
| General Chemistry - W | estborough Lab for | sample(s): 03 | 3-04 Ba | itch: WC | G1817875- | 1 | | | |
| Cyanide, Total | ND | mg/kg | 0.86 | 0.18 | 1 | 08/19/23 16:00 | 08/21/23 15:10 | 1,9010C/9012E | 3 KEP |
| General Chemistry - W | estborough Lab for | sample(s): 01 | I-04 Ba | itch: WC | G1817932- | 1 | | | |
| Nitrogen, Ammonia | ND | mg/kg | 7.5 | 0.02 | 1 | 08/20/23 10:40 | 08/20/23 17:19 | 121,4500NH3-BI | H AVT |
| Total Organic Carbon - | Mansfield Lab for s | ample(s): 01 | Batch: | WG182 | 20886-1 | | | | |
| Total Organic Carbon | ND | % | 0.010 | 0.010 | 1 | - | 08/28/23 08:43 | 1,9060A | SPP |



Lab Control Sample Analysis Batch Quality Control

Project Name:

RITC

Project Number: BENCH SCALE-TOC Lab Number:

L2347700

Report Date:

08/31/23

| Parameter | LCS %Recovery Q | LCSD lual %Recove | ry Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--------------------------------------|--------------------------|----------------------|--------------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab | Associated sample(s): 0 | 1-02 Batch: WG1 | 1817873-2 WC | G1817873-3 | | | |
| Cyanide, Total | 87 | 77 | Q | 80-120 | 15 | | 35 |
| General Chemistry - Westborough Lab | Associated sample(s): 0 | 3-04 Batch: WG1 | 1817875-2 WC | G1817875-3 | | | |
| Cyanide, Total | 87 | 76 | Q | 80-120 | 15 | | 35 |
| General Chemistry - Westborough Lab | Associated sample(s): 0 | 1-04 Batch: WG1 | 1817932-2 | | | | |
| Nitrogen, Ammonia | 93 | - | | 83-115 | - | | 20 |
| Total Organic Carbon - Mansfield Lab | Associated sample(s): 01 | Batch: WG1820 | 886-2 | | | | |
| Total Organic Carbon | 96 | - | | 75-125 | - | | 25 |

Matrix Spike Analysis Batch Quality Control

Project Name: RITC

Project Number: BENCH SCALE-TOC

Lab Number:

L2347700

Report Date:

08/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Qual Found | MSD %Recovery | Recovery Qual Limits | RPD Q | RPD ual Limits |
|---|------------------|-------------|--------------|-----------------|-------------------|------------------|-------------------------|------------|-------------------|
| General Chemistry - Westbo BREEZE-08172023 | orough Lab Assoc | ciated samp | le(s): 01-02 | QC Batch II | D: WG1817873 | -4 WG1817873-5 | QC Sample: L23 | 47700-01 | Client ID: |
| Cyanide, Total | 0.75J | 12 | 12 | 97 | 12 | 98 | 75-125 | 0 | 35 |
| General Chemistry - Westbo Sample | orough Lab Assoc | ciated samp | le(s): 03-04 | QC Batch II | D: WG1817875 | -4 WG1817875-5 | QC Sample: L23 | 47803-04 | Client ID: N |
| Cyanide, Total | ND | 10 | 9.8 | 96 | 10 | 95 | 75-125 | 2 | 35 |
| General Chemistry - Westbo 08172023 | orough Lab Assoc | ciated samp | le(s): 01-04 | QC Batch II | D: WG1817932 | 4 QC Sample: | L2347700-01 Cli | ent ID: BF | REEZE- |
| Nitrogen, Ammonia | 9.1 | 390 | 350 | 88 | | - | 55-144 | - | 20 |

L2347700

Lab Duplicate Analysis Batch Quality Control

Project Name: RITC

Project Number: BENCH SCALE-TOC Lab Number:

08/31/23 Report Date:

| Parameter | Native Samp | ole Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------|-----------------------------|--------------------------|------------|-------------|------------|------------|
| General Chemistry - Westborough Lab | Associated sample(s): 01-04 | QC Batch ID: WG1817424-1 | QC Sample: | L2347609-01 | Client ID: | DUP Sample |
| Solids, Total | 88.3 | 88.6 | % | 0 | | 20 |
| General Chemistry - Westborough Lab 7 | Associated sample(s): 01-04 | QC Batch ID: WG1817932-3 | QC Sample: | L2347700-01 | Client ID: | BREEZE- |
| Nitrogen, Ammonia | 9.1 | 63 | mg/kg | 150 | Q | 20 |



Project Name: RITC

Lab Number: L2347700 **Project Number:** BENCH SCALE-TOC **Report Date:** 08/31/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Custody Seal Cooler

Α Absent

| Container Information | | | Initial | | Temp | | | Frozen | | |
|-----------------------|--------------|--|---------|-----------------------|------|------|-----------|-------------|-----------------|--|
| | Container ID | Container Type | Cooler | pH pH deg C Pres Seal | | Seal | Date/Time | Analysis(*) | | |
| | L2347700-01A | Metals Only-Glass 60mL/2oz unpreserved | Α | NA | | 2.3 | Y | Absent | | BE-TI(180),BA-TI(180),AS-TI(180),AG- TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL- TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE- TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE- TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA- TI(180),NA-TI(180),K-TI(180),CD-TI(180) |
| | L2347700-01B | Vial Large Septa unpreserved (4oz) | Α | NA | | 2.3 | Υ | Absent | | NYTCL-8260-R2(14) |
| | L2347700-01C | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | A2-TOC-9060(28) |
| | L2347700-01D | Glass 250ml/8oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),NYTCL-8270(14),TS(7),NH3-4500(28) |
| | L2347700-01E | Glass 250ml/8oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),NYTCL-8270(14),TS(7),NH3-4500(28) |
| | L2347700-01X | Vial MeOH preserved split | Α | NA | | 2.3 | Υ | Absent | | NYTCL-8260-R2(14) |
| | L2347700-01Y | Vial Water preserved split | Α | NA | | 2.3 | Υ | Absent | 18-AUG-23 13:49 | NYTCL-8260-R2(14) |
| | L2347700-01Z | Vial Water preserved split | Α | NA | | 2.3 | Υ | Absent | 18-AUG-23 13:49 | NYTCL-8260-R2(14) |
| | L2347700-02A | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),TS(7),NH3-4500(28) |
| | L2347700-02B | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),TS(7),NH3-4500(28) |
| | L2347700-03A | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),TS(7),NH3-4500(28) |
| | L2347700-03B | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),TS(7),NH3-4500(28) |
| | L2347700-04A | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),TS(7),NH3-4500(28) |
| | L2347700-04B | Glass 120ml/4oz unpreserved | Α | NA | | 2.3 | Υ | Absent | | TCN-9010(14),TS(7),NH3-4500(28) |



Project Name: Lab Number: **RITC** L2347700 **Project Number: BENCH SCALE-TOC Report Date:** 08/31/23

GLOSSARY

Acronyms

EDL

LOD

LOQ

MS

RPD

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

MDI - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile NR Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:RITCLab Number:L2347700Project Number:BENCH SCALE-TOCReport Date:08/31/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit
 (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:RITCLab Number:L2347700Project Number:BENCH SCALE-TOCReport Date:08/31/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name:RITCLab Number:L2347700Project Number:BENCH SCALE-TOCReport Date:08/31/23

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 20

Published Date: 6/16/2023 4:52:28 PM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethyltoluene, Az

Ethyltoluene

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

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documented on the final report or are noted below.

Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

234271

Referencing

Breeze Water Testing *Prepared*Monday, September 25, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or

Emily Found of Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-01-09132023

Lab Sample ID: 234271-01 **Date Sampled:** 9/13/2023 16:15

Matrix: Groundwater Date Received 9/15/2023

Ammonia-N

<u>Analyte</u> <u>Result</u> <u>Units</u> <u>Qualifier</u> <u>Date Analyzed</u>

Ammonia 7.7 mg/L 9/19/2023

Method Reference(s): EPA 350.1 Rev 2.0

Subcontractor ELAP ID: 10709

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total **0.200** mg/L 9/19/2023

Method Reference(s): EPA 335.4 Rev 1.0

Subcontractor ELAP ID: 10709

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Anal | <u>yzed</u> |
|------------------------------|---------------|--------------|-----------|-----------|-------------|
| 1,1-Biphenyl | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 1,2,4,5-Tetrachlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 1,2,4-Trichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 1,2-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 1,3-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 1,4-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,2-Oxybis (1-chloropropane) | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,3,4,6-Tetrachlorophenol | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,4,5-Trichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,4,6-Trichlorophenol | < 20.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,4-Dichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,4-Dimethylphenol | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,4-Dinitrophenol | < 20.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,4-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2,6-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2-Chloronaphthalene | < 10.0 | ug/L | | 9/20/2023 | 17:23 |
| 2-Chlorophenol | < 10.0 | ug/L | | 9/20/2023 | 17:23 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-01-09132023

Lab Sample ID: 234271-01 **Date Sampled:** 9/13/2023 16:15

Matrix: Groundwater Date Received 9/15/2023

| 2-Methylnapthalene | < 10.0 | ug/L | 9/20/2023 17:23 |
|------------------------------|--------|------|-----------------|
| 2-Methylphenol | < 10.0 | ug/L | 9/20/2023 17:23 |
| 2-Nitroaniline | < 20.0 | ug/L | 9/20/2023 17:23 |
| 2-Nitrophenol | < 10.0 | ug/L | 9/20/2023 17:23 |
| 3&4-Methylphenol | < 10.0 | ug/L | 9/20/2023 17:23 |
| 3,3'-Dichlorobenzidine | < 10.0 | ug/L | 9/20/2023 17:23 |
| 3-Nitroaniline | < 20.0 | ug/L | 9/20/2023 17:23 |
| 4,6-Dinitro-2-methylphenol | < 20.0 | ug/L | 9/20/2023 17:23 |
| 4-Bromophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 17:23 |
| 4-Chloro-3-methylphenol | < 10.0 | ug/L | 9/20/2023 17:23 |
| 4-Chloroaniline | < 10.0 | ug/L | 9/20/2023 17:23 |
| 4-Chlorophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 17:23 |
| 4-Nitroaniline | < 20.0 | ug/L | 9/20/2023 17:23 |
| 4-Nitrophenol | < 20.0 | ug/L | 9/20/2023 17:23 |
| Acenaphthene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Acenaphthylene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Acetophenone | < 10.0 | ug/L | 9/20/2023 17:23 |
| Anthracene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Atrazine | < 25.0 | ug/L | 9/20/2023 17:23 |
| Benzaldehyde | < 10.0 | ug/L | 9/20/2023 17:23 |
| Benzo (a) anthracene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Benzo (a) pyrene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Benzo (b) fluoranthene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Benzo (g,h,i) perylene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Benzo (k) fluoranthene | < 10.0 | ug/L | 9/20/2023 17:23 |
| Bis (2-chloroethoxy) methane | < 10.0 | ug/L | 9/20/2023 17:23 |
| Bis (2-chloroethyl) ether | < 10.0 | ug/L | 9/20/2023 17:23 |
| Bis (2-ethylhexyl) phthalate | < 10.0 | ug/L | 9/20/2023 17:23 |
| Butylbenzylphthalate | < 10.0 | ug/L | 9/20/2023 17:23 |
| Caprolactam | < 10.0 | ug/L | 9/20/2023 17:23 |
| | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-01-09132023

Lab Sample ID: 234271-01 **Date Sampled:** 9/13/2023 16:15

Matrix: Groundwater Date Received 9/15/2023

| Carbazole | < 10.0 | ug/L | 9/20/2023 | 17:23 |
|----------------------------|--------|------|-----------|-------|
| Chrysene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Dibenz (a,h) anthracene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Dibenzofuran | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Diethyl phthalate | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Dimethyl phthalate | < 20.0 | ug/L | 9/20/2023 | 17:23 |
| Di-n-butyl phthalate | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Di-n-octylphthalate | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Fluoranthene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Fluorene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Hexachlorobenzene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Hexachlorobutadiene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Hexachlorocyclopentadiene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Hexachloroethane | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Indeno (1,2,3-cd) pyrene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Isophorone | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Naphthalene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Nitrobenzene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| N-Nitroso-di-n-propylamine | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| N-Nitrosodiphenylamine | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Pentachlorophenol | < 20.0 | ug/L | 9/20/2023 | 17:23 |
| Phenanthrene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Phenol | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| Pyrene | < 10.0 | ug/L | 9/20/2023 | 17:23 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-01-09132023

Lab Sample ID: 234271-01 **Date Sampled:** 9/13/2023 16:15

Matrix: Groundwater Date Received 9/15/2023

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Analyzed | |
|----------------------|------------------|---------------|-----------------|----------------------|-------|
| 2,4,6-Tribromophenol | 70.0 | 49 - 127 | | 9/20/2023 | 17:23 |
| 2-Fluorobiphenyl | 36.7 | 10 - 107 | | 9/20/2023 | 17:23 |
| 2-Fluorophenol | 28.1 | 10.6 - 109 | | 9/20/2023 | 17:23 |
| Nitrobenzene-d5 | 57.5 | 41 - 106 | | 9/20/2023 | 17:23 |
| Phenol-d5 | 21.4 | 10 - 109 | | 9/20/2023 | 17:23 |
| Terphenyl-d14 | 67.1 | 49.6 - 120 | | 9/20/2023 | 17:23 |

Method Reference(s): EPA 8270D

EPA 3510C

Preparation Date: 9/20/2023 Data File: B66927.D

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier Date Analyzed |
|-----------------------------|--------|--------------|-------------------------|
| 1,1,1-Trichloroethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,1,2,2-Tetrachloroethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,1,2-Trichloroethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,1-Dichloroethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,1-Dichloroethene | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,2,3-Trichlorobenzene | < 100 | ug/L | 9/20/2023 19:04 |
| 1,2,4-Trichlorobenzene | < 100 | ug/L | 9/20/2023 19:04 |
| 1,2-Dibromo-3-Chloropropane | < 200 | ug/L | 9/20/2023 19:04 |
| 1,2-Dibromoethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,2-Dichlorobenzene | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,2-Dichloroethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,2-Dichloropropane | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,3-Dichlorobenzene | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,4-Dichlorobenzene | < 40.0 | ug/L | 9/20/2023 19:04 |
| 1,4-Dioxane | < 200 | ug/L | 9/20/2023 19:04 |
| 2-Butanone | < 200 | ug/L | 9/20/2023 19:04 |
| 2-Hexanone | < 100 | ug/L | 9/20/2023 19:04 |
| 4-Methyl-2-pentanone | < 100 | ug/L | 9/20/2023 19:04 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-01-09132023

Lab Sample ID: 234271-01 **Date Sampled:** 9/13/2023 16:15

Matrix: Groundwater Date Received 9/15/2023

| Acetone | 236 | ug/L | 9/20/2023 19:04 |
|--------------------------|--------|------|-----------------|
| Benzene | 519 | ug/L | 9/20/2023 19:04 |
| Bromochloromethane | < 100 | ug/L | 9/20/2023 19:04 |
| Bromodichloromethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Bromoform | < 100 | ug/L | 9/20/2023 19:04 |
| Bromomethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Carbon disulfide | < 40.0 | ug/L | 9/20/2023 19:04 |
| Carbon Tetrachloride | < 40.0 | ug/L | 9/20/2023 19:04 |
| Chlorobenzene | < 40.0 | ug/L | 9/20/2023 19:04 |
| Chloroethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Chloroform | < 40.0 | ug/L | 9/20/2023 19:04 |
| Chloromethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| cis-1,2-Dichloroethene | < 40.0 | ug/L | 9/20/2023 19:04 |
| cis-1,3-Dichloropropene | < 40.0 | ug/L | 9/20/2023 19:04 |
| Cyclohexane | < 200 | ug/L | 9/20/2023 19:04 |
| Dibromochloromethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Dichlorodifluoromethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Ethylbenzene | < 40.0 | ug/L | 9/20/2023 19:04 |
| Freon 113 | < 40.0 | ug/L | 9/20/2023 19:04 |
| Isopropylbenzene | < 40.0 | ug/L | 9/20/2023 19:04 |
| m,p-Xylene | 44.8 | ug/L | 9/20/2023 19:04 |
| Methyl acetate | < 40.0 | ug/L | 9/20/2023 19:04 |
| Methyl tert-butyl Ether | < 40.0 | ug/L | 9/20/2023 19:04 |
| Methylcyclohexane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Methylene chloride | < 100 | ug/L | 9/20/2023 19:04 |
| o-Xylene | < 40.0 | ug/L | 9/20/2023 19:04 |
| Styrene | < 100 | ug/L | 9/20/2023 19:04 |
| Tetrachloroethene | < 40.0 | ug/L | 9/20/2023 19:04 |
| Toluene | 67.2 | ug/L | 9/20/2023 19:04 |
| trans-1,2-Dichloroethene | < 40.0 | ug/L | 9/20/2023 19:04 |
| | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-01-09132023

Lab Sample ID: 234271-01 **Date Sampled:** 9/13/2023 16:15

Matrix: Groundwater Date Received 9/15/2023

| trans-1,3-Dichloropropene | < 40.0 | ug/L | 9/20/2023 19:04 |
|---------------------------|--------|------|-----------------|
| Trichloroethene | < 40.0 | ug/L | 9/20/2023 19:04 |
| Trichlorofluoromethane | < 40.0 | ug/L | 9/20/2023 19:04 |
| Vinyl chloride | < 40.0 | ug/L | 9/20/2023 19:04 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Analyzed | |
|-----------------------|------------------|---------------|-----------------|----------------------|-------|
| 1,2-Dichloroethane-d4 | 106 | 79.7 - 118 | | 9/20/2023 | 19:04 |
| 4-Bromofluorobenzene | 98.9 | 80.1 - 112 | | 9/20/2023 | 19:04 |
| Pentafluorobenzene | 97.0 | 88 - 115 | | 9/20/2023 | 19:04 |
| Toluene-D8 | 109 | 88.2 - 113 | | 9/20/2023 | 19:04 |

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z19680.D



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-02-09152023

Lab Sample ID: 234271-02 **Date Sampled:** 9/15/2023 9:00

Matrix: Groundwater Date Received 9/15/2023

Ammonia-N

<u>Analyte</u> <u>Result</u> <u>Units</u> <u>Qualifier</u> <u>Date Analyzed</u>

Ammonia **1.2** mg/L 9/19/2023

Method Reference(s): EPA 350.1 Rev 2.0

Subcontractor ELAP ID: 10709

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total **0.0560** mg/L 9/19/2023

Method Reference(s): EPA 335.4 Rev 1.0

Subcontractor ELAP ID: 10709

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | Qualifier Date Analyzed |
|------------------------------|---------------|--------------|-------------------------|
| 1,1-Biphenyl | < 10.0 | ug/L | 9/20/2023 17:52 |
| 1,2,4,5-Tetrachlorobenzene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 1,2,4-Trichlorobenzene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 1,2-Dichlorobenzene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 1,3-Dichlorobenzene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 1,4-Dichlorobenzene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,2-Oxybis (1-chloropropane) | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,3,4,6-Tetrachlorophenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,4,5-Trichlorophenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,4,6-Trichlorophenol | < 20.0 | ug/L | 9/20/2023 17:52 |
| 2,4-Dichlorophenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,4-Dimethylphenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,4-Dinitrophenol | < 20.0 | ug/L | 9/20/2023 17:52 |
| 2,4-Dinitrotoluene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2,6-Dinitrotoluene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2-Chloronaphthalene | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2-Chlorophenol | < 10.0 | ug/L | 9/20/2023 17:52 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-02-09152023

Lab Sample ID: 234271-02 **Date Sampled:** 9/15/2023 9:00

Matrix: Groundwater Date Received 9/15/2023

| 2-Methylnapthalene | < 10.0 | ug/L | 9/20/2023 17:52 |
|------------------------------|--------|------|-----------------|
| 2-Methylphenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 2-Nitroaniline | < 20.0 | ug/L | 9/20/2023 17:52 |
| 2-Nitrophenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 3&4-Methylphenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 3,3'-Dichlorobenzidine | < 10.0 | ug/L | 9/20/2023 17:52 |
| 3-Nitroaniline | < 20.0 | ug/L | 9/20/2023 17:52 |
| 4,6-Dinitro-2-methylphenol | < 20.0 | ug/L | 9/20/2023 17:52 |
| 4-Bromophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 17:52 |
| 4-Chloro-3-methylphenol | < 10.0 | ug/L | 9/20/2023 17:52 |
| 4-Chloroaniline | < 10.0 | ug/L | 9/20/2023 17:52 |
| 4-Chlorophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 17:52 |
| 4-Nitroaniline | < 20.0 | ug/L | 9/20/2023 17:52 |
| 4-Nitrophenol | < 20.0 | ug/L | 9/20/2023 17:52 |
| Acenaphthene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Acenaphthylene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Acetophenone | < 10.0 | ug/L | 9/20/2023 17:52 |
| Anthracene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Atrazine | < 25.0 | ug/L | 9/20/2023 17:52 |
| Benzaldehyde | < 10.0 | ug/L | 9/20/2023 17:52 |
| Benzo (a) anthracene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Benzo (a) pyrene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Benzo (b) fluoranthene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Benzo (g,h,i) perylene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Benzo (k) fluoranthene | < 10.0 | ug/L | 9/20/2023 17:52 |
| Bis (2-chloroethoxy) methane | < 10.0 | ug/L | 9/20/2023 17:52 |
| Bis (2-chloroethyl) ether | < 10.0 | ug/L | 9/20/2023 17:52 |
| Bis (2-ethylhexyl) phthalate | < 10.0 | ug/L | 9/20/2023 17:52 |
| Butylbenzylphthalate | < 10.0 | ug/L | 9/20/2023 17:52 |
| Caprolactam | < 10.0 | ug/L | 9/20/2023 17:52 |
| | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-02-09152023

Lab Sample ID: 234271-02 **Date Sampled:** 9/15/2023 9:00

Matrix: Groundwater Date Received 9/15/2023

| Carbazole | < 10.0 | ug/L | 9/20/2023 | 17:52 |
|----------------------------|--------|------|-----------|-------|
| Chrysene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Dibenz (a,h) anthracene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Dibenzofuran | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Diethyl phthalate | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Dimethyl phthalate | < 20.0 | ug/L | 9/20/2023 | 17:52 |
| Di-n-butyl phthalate | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Di-n-octylphthalate | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Fluoranthene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Fluorene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Hexachlorobenzene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Hexachlorobutadiene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Hexachlorocyclopentadiene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Hexachloroethane | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Indeno (1,2,3-cd) pyrene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Isophorone | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Naphthalene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Nitrobenzene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| N-Nitroso-di-n-propylamine | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| N-Nitrosodiphenylamine | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Pentachlorophenol | < 20.0 | ug/L | 9/20/2023 | 17:52 |
| Phenanthrene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Phenol | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| Pyrene | < 10.0 | ug/L | 9/20/2023 | 17:52 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-02-09152023

Lab Sample ID: 234271-02 **Date Sampled:** 9/15/2023 9:00

Matrix: Groundwater Date Received 9/15/2023

| Surrogate | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date An | <u>alyzed</u> |
|----------------------|------------------|---------------|-----------------|-----------|---------------|
| 2,4,6-Tribromophenol | 87.8 | 49 - 127 | | 9/20/2023 | 17:52 |
| 2-Fluorobiphenyl | 35.3 | 10 - 107 | | 9/20/2023 | 17:52 |
| 2-Fluorophenol | 48.5 | 10.6 - 109 | | 9/20/2023 | 17:52 |
| Nitrobenzene-d5 | 53.1 | 41 - 106 | | 9/20/2023 | 17:52 |
| Phenol-d5 | 39.9 | 10 - 109 | | 9/20/2023 | 17:52 |
| Terphenyl-d14 | 72.6 | 49.6 - 120 | | 9/20/2023 | 17:52 |

Method Reference(s): EPA 8270D

EPA 3510C

 Preparation Date:
 9/20/2023

 Data File:
 B66928.D

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier | Date Analyzed |
|-----------------------------|--------|--------------|-----------|-----------------|
| 1,1,1-Trichloroethane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,1,2,2-Tetrachloroethane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,1,2-Trichloroethane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,1-Dichloroethane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,1-Dichloroethene | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,2,3-Trichlorobenzene | < 5.00 | ug/L | | 9/20/2023 19:24 |
| 1,2,4-Trichlorobenzene | < 5.00 | ug/L | | 9/20/2023 19:24 |
| 1,2-Dibromo-3-Chloropropane | < 10.0 | ug/L | | 9/20/2023 19:24 |
| 1,2-Dibromoethane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,2-Dichlorobenzene | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,2-Dichloroethane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,2-Dichloropropane | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,3-Dichlorobenzene | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,4-Dichlorobenzene | < 2.00 | ug/L | | 9/20/2023 19:24 |
| 1,4-Dioxane | < 10.0 | ug/L | | 9/20/2023 19:24 |
| 2-Butanone | < 10.0 | ug/L | | 9/20/2023 19:24 |
| 2-Hexanone | < 5.00 | ug/L | | 9/20/2023 19:24 |
| 4-Methyl-2-pentanone | < 5.00 | ug/L | | 9/20/2023 19:24 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-02-09152023

Lab Sample ID: 234271-02 **Date Sampled:** 9/15/2023 9:00

Matrix: Groundwater Date Received 9/15/2023

| | | | | _ |
|--------------------------|--------|------|-----------------|---|
| Acetone | 19.4 | ug/L | 9/20/2023 19:2- | 4 |
| Benzene | < 1.00 | ug/L | 9/20/2023 19:2- | 4 |
| Bromochloromethane | < 5.00 | ug/L | 9/20/2023 19:2- | 4 |
| Bromodichloromethane | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Bromoform | < 5.00 | ug/L | 9/20/2023 19:24 | 4 |
| Bromomethane | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Carbon disulfide | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Carbon Tetrachloride | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Chlorobenzene | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Chloroethane | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Chloroform | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Chloromethane | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| cis-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| cis-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 19:24 | 4 |
| Cyclohexane | < 10.0 | ug/L | 9/20/2023 19:2- | 4 |
| Dibromochloromethane | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Dichlorodifluoromethane | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Ethylbenzene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Freon 113 | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Isopropylbenzene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| m,p-Xylene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Methyl acetate | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Methyl tert-butyl Ether | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Methylcyclohexane | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Methylene chloride | < 5.00 | ug/L | 9/20/2023 19:2- | 4 |
| o-Xylene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Styrene | < 5.00 | ug/L | 9/20/2023 19:2- | 4 |
| Tetrachloroethene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| Toluene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| trans-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 19:2- | 4 |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-02-09152023

Lab Sample ID: 234271-02 **Date Sampled:** 9/15/2023 9:00

Matrix: Groundwater Date Received 9/15/2023

| trans-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 19:24 |
|---------------------------|--------|------|-----------------|
| Trichloroethene | < 2.00 | ug/L | 9/20/2023 19:24 |
| Trichlorofluoromethane | < 2.00 | ug/L | 9/20/2023 19:24 |
| Vinyl chloride | < 2.00 | ug/L | 9/20/2023 19:24 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Analyzed | |
|-----------------------|------------------|---------------|-----------------|----------------------|-------|
| 1,2-Dichloroethane-d4 | 112 | 79.7 - 118 | | 9/20/2023 | 19:24 |
| 4-Bromofluorobenzene | 97.4 | 80.1 - 112 | | 9/20/2023 | 19:24 |
| Pentafluorobenzene | 95.1 | 88 - 115 | | 9/20/2023 | 19:24 |
| Toluene-D8 | 109 | 88.2 - 113 | | 9/20/2023 | 19:24 |

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z19681.D



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-03-09152023

Lab Sample ID: 234271-03 **Date Sampled:** 9/15/2023 9:10

Matrix: Groundwater Date Received 9/15/2023

Ammonia-N

<u>Analyte</u> <u>Result</u> <u>Units</u> <u>Qualifier</u> <u>Date Analyzed</u>

Ammonia **1.5** mg/L 9/19/2023

Method Reference(s): EPA 350.1 Rev 2.0

Subcontractor ELAP ID: 10709

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total **0.0930** mg/L 9/19/2023

Method Reference(s): EPA 335.4 Rev 1.0

Subcontractor ELAP ID: 10709

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analy | <u>vzed</u> |
|------------------------------|---------------|--------------|-----------|------------|-------------|
| 1,1-Biphenyl | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 1,2,4,5-Tetrachlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 1,2,4-Trichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 1,2-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 1,3-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 1,4-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,2-Oxybis (1-chloropropane) | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,3,4,6-Tetrachlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,4,5-Trichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,4,6-Trichlorophenol | < 20.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,4-Dichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,4-Dimethylphenol | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,4-Dinitrophenol | < 20.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,4-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2,6-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2-Chloronaphthalene | < 10.0 | ug/L | | 9/20/2023 | 18:20 |
| 2-Chlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:20 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-03-09152023

Lab Sample ID: 234271-03 **Date Sampled:** 9/15/2023 9:10

Matrix: Groundwater Date Received 9/15/2023

| 2-Methylnapthalene | < 10.0 | ug/L | 9/20/2023 18:20 |
|------------------------------|--------|------|-----------------|
| 2-Methylphenol | < 10.0 | ug/L | 9/20/2023 18:20 |
| 2-Nitroaniline | < 20.0 | ug/L | 9/20/2023 18:20 |
| 2-Nitrophenol | < 10.0 | ug/L | 9/20/2023 18:20 |
| 3&4-Methylphenol | < 10.0 | ug/L | 9/20/2023 18:20 |
| 3,3'-Dichlorobenzidine | < 10.0 | ug/L | 9/20/2023 18:20 |
| 3-Nitroaniline | < 20.0 | ug/L | 9/20/2023 18:20 |
| 4,6-Dinitro-2-methylphenol | < 20.0 | ug/L | 9/20/2023 18:20 |
| 4-Bromophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 18:20 |
| 4-Chloro-3-methylphenol | < 10.0 | ug/L | 9/20/2023 18:20 |
| 4-Chloroaniline | < 10.0 | ug/L | 9/20/2023 18:20 |
| 4-Chlorophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 18:20 |
| 4-Nitroaniline | < 20.0 | ug/L | 9/20/2023 18:20 |
| 4-Nitrophenol | < 20.0 | ug/L | 9/20/2023 18:20 |
| Acenaphthene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Acenaphthylene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Acetophenone | < 10.0 | ug/L | 9/20/2023 18:20 |
| Anthracene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Atrazine | < 25.0 | ug/L | 9/20/2023 18:20 |
| Benzaldehyde | < 10.0 | ug/L | 9/20/2023 18:20 |
| Benzo (a) anthracene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Benzo (a) pyrene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Benzo (b) fluoranthene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Benzo (g,h,i) perylene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Benzo (k) fluoranthene | < 10.0 | ug/L | 9/20/2023 18:20 |
| Bis (2-chloroethoxy) methane | < 10.0 | ug/L | 9/20/2023 18:20 |
| Bis (2-chloroethyl) ether | < 10.0 | ug/L | 9/20/2023 18:20 |
| Bis (2-ethylhexyl) phthalate | < 10.0 | ug/L | 9/20/2023 18:20 |
| Butylbenzylphthalate | < 10.0 | ug/L | 9/20/2023 18:20 |
| Caprolactam | < 10.0 | ug/L | 9/20/2023 18:20 |
| | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-03-09152023

Lab Sample ID: 234271-03 **Date Sampled:** 9/15/2023 9:10

Matrix: Groundwater Date Received 9/15/2023

| Carbazole | < 10.0 | ug/L | 9/20/2023 | 18:20 |
|----------------------------|--------|------|-----------|-------|
| Chrysene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Dibenz (a,h) anthracene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Dibenzofuran | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Diethyl phthalate | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Dimethyl phthalate | < 20.0 | ug/L | 9/20/2023 | 18:20 |
| Di-n-butyl phthalate | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Di-n-octylphthalate | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Fluoranthene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Fluorene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Hexachlorobenzene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Hexachlorobutadiene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Hexachlorocyclopentadiene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Hexachloroethane | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Indeno (1,2,3-cd) pyrene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Isophorone | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Naphthalene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Nitrobenzene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| N-Nitroso-di-n-propylamine | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| N-Nitrosodiphenylamine | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Pentachlorophenol | < 20.0 | ug/L | 9/20/2023 | 18:20 |
| Phenanthrene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Phenol | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| Pyrene | < 10.0 | ug/L | 9/20/2023 | 18:20 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-03-09152023

Lab Sample ID: 234271-03 **Date Sampled:** 9/15/2023 9:10

Matrix: Groundwater Date Received 9/15/2023

| Surrogate | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date An</u> | <u>alyzed</u> |
|----------------------|------------------|---------------|-----------------|----------------|---------------|
| 2,4,6-Tribromophenol | 90.3 | 49 - 127 | | 9/20/2023 | 18:20 |
| 2-Fluorobiphenyl | 36.5 | 10 - 107 | | 9/20/2023 | 18:20 |
| 2-Fluorophenol | 32.5 | 10.6 - 109 | | 9/20/2023 | 18:20 |
| Nitrobenzene-d5 | 52.8 | 41 - 106 | | 9/20/2023 | 18:20 |
| Phenol-d5 | 33.4 | 10 - 109 | | 9/20/2023 | 18:20 |
| Terphenyl-d14 | 78.3 | 49.6 - 120 | | 9/20/2023 | 18:20 |

Method Reference(s): EPA 8270D

EPA 3510C

Preparation Date: 9/20/2023 Data File: 866929.D

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier Date Analyzed |
|-----------------------------|--------|--------------|-------------------------|
| 1,1,1-Trichloroethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,1,2,2-Tetrachloroethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,1,2-Trichloroethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,1-Dichloroethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,1-Dichloroethene | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,2,3-Trichlorobenzene | < 5.00 | ug/L | 9/20/2023 19:43 |
| 1,2,4-Trichlorobenzene | < 5.00 | ug/L | 9/20/2023 19:43 |
| 1,2-Dibromo-3-Chloropropane | < 10.0 | ug/L | 9/20/2023 19:43 |
| 1,2-Dibromoethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,2-Dichlorobenzene | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,2-Dichloroethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,2-Dichloropropane | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,3-Dichlorobenzene | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,4-Dichlorobenzene | < 2.00 | ug/L | 9/20/2023 19:43 |
| 1,4-Dioxane | < 10.0 | ug/L | 9/20/2023 19:43 |
| 2-Butanone | < 10.0 | ug/L | 9/20/2023 19:43 |
| 2-Hexanone | < 5.00 | ug/L | 9/20/2023 19:43 |
| 4-Methyl-2-pentanone | < 5.00 | ug/L | 9/20/2023 19:43 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-03-09152023

Lab Sample ID: 234271-03 **Date Sampled:** 9/15/2023 9:10

Matrix: Groundwater Date Received 9/15/2023

| | | | | _ |
|--------------------------|--------|------|-----------------|---|
| Acetone | 17.1 | ug/L | 9/20/2023 19:43 | } |
| Benzene | < 1.00 | ug/L | 9/20/2023 19:43 | } |
| Bromochloromethane | < 5.00 | ug/L | 9/20/2023 19:43 | } |
| Bromodichloromethane | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| Bromoform | < 5.00 | ug/L | 9/20/2023 19:43 | 3 |
| Bromomethane | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| Carbon disulfide | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Carbon Tetrachloride | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Chlorobenzene | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Chloroethane | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Chloroform | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| Chloromethane | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| cis-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| cis-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| Cyclohexane | < 10.0 | ug/L | 9/20/2023 19:43 | 3 |
| Dibromochloromethane | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Dichlorodifluoromethane | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Ethylbenzene | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Freon 113 | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Isopropylbenzene | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| m,p-Xylene | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Methyl acetate | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Methyl tert-butyl Ether | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Methylcyclohexane | < 2.00 | ug/L | 9/20/2023 19:43 | 3 |
| Methylene chloride | < 5.00 | ug/L | 9/20/2023 19:43 | 3 |
| o-Xylene | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| Styrene | < 5.00 | ug/L | 9/20/2023 19:43 | } |
| Tetrachloroethene | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| Toluene | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| trans-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 19:43 | } |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-03-09152023

Lab Sample ID: 234271-03 **Date Sampled:** 9/15/2023 9:10

Matrix: Groundwater Date Received 9/15/2023

| trans-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 19:43 |
|---------------------------|--------|------|-----------------|
| Trichloroethene | < 2.00 | ug/L | 9/20/2023 19:43 |
| Trichlorofluoromethane | < 2.00 | ug/L | 9/20/2023 19:43 |
| Vinyl chloride | < 2.00 | ug/L | 9/20/2023 19:43 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date An</u> | <u>alyzed</u> |
|-----------------------|------------------|---------------|-----------------|----------------|---------------|
| 1,2-Dichloroethane-d4 | 107 | 79.7 - 118 | | 9/20/2023 | 19:43 |
| 4-Bromofluorobenzene | 93.9 | 80.1 - 112 | | 9/20/2023 | 19:43 |
| Pentafluorobenzene | 97.9 | 88 - 115 | | 9/20/2023 | 19:43 |
| Toluene-D8 | 110 | 88.2 - 113 | | 9/20/2023 | 19:43 |

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z19682.D



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-04-09152023

Lab Sample ID: 234271-04 **Date Sampled:** 9/15/2023 9:20

Matrix: Groundwater Date Received 9/15/2023

Ammonia-N

Analyte Result Units Qualifier Date Analyzed

Ammonia **4.0** mg/L 9/19/2023

Method Reference(s): EPA 350.1 Rev 2.0

Subcontractor ELAP ID: 10709

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total **0.140** mg/L 9/19/2023

Method Reference(s): EPA 335.4 Rev 1.0

Subcontractor ELAP ID: 10709

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | Qualifier | Date Analy | <u>vzed</u> |
|------------------------------|---------------|--------------|-----------|-------------------|-------------|
| 1,1-Biphenyl | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 1,2,4,5-Tetrachlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 1,2,4-Trichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 1,2-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 1,3-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 1,4-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,2-Oxybis (1-chloropropane) | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,3,4,6-Tetrachlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,4,5-Trichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,4,6-Trichlorophenol | < 20.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,4-Dichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,4-Dimethylphenol | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,4-Dinitrophenol | < 20.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,4-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2,6-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2-Chloronaphthalene | < 10.0 | ug/L | | 9/20/2023 | 18:49 |
| 2-Chlorophenol | < 10.0 | ug/L | | 9/20/2023 | 18:49 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-04-09152023

Lab Sample ID: 234271-04 **Date Sampled:** 9/15/2023 9:20

Matrix: Groundwater Date Received 9/15/2023

| 2-Methylnapthalene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
|------------------------------|--------|------|-----------|-------|
| 2-Methylphenol | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 2-Nitroaniline | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| 2-Nitrophenol | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 3&4-Methylphenol | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 3,3'-Dichlorobenzidine | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 3-Nitroaniline | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| 4,6-Dinitro-2-methylphenol | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| 4-Bromophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 4-Chloro-3-methylphenol | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 4-Chloroaniline | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 4-Chlorophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| 4-Nitroaniline | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| 4-Nitrophenol | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| Acenaphthene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Acenaphthylene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Acetophenone | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Anthracene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Atrazine | < 25.0 | ug/L | 9/20/2023 | 18:49 |
| Benzaldehyde | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Benzo (a) anthracene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Benzo (a) pyrene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Benzo (b) fluoranthene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Benzo (g,h,i) perylene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Benzo (k) fluoranthene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Bis (2-chloroethoxy) methane | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Bis (2-chloroethyl) ether | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Bis (2-ethylhexyl) phthalate | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Butylbenzylphthalate | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Caprolactam | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-04-09152023

Lab Sample ID: 234271-04 **Date Sampled:** 9/15/2023 9:20

Matrix: Groundwater Date Received 9/15/2023

| Carbazole | < 10.0 | ug/L | 9/20/2023 | 18:49 |
|----------------------------|--------|------|-----------|-------|
| Chrysene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Dibenz (a,h) anthracene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Dibenzofuran | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Diethyl phthalate | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Dimethyl phthalate | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| Di-n-butyl phthalate | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Di-n-octylphthalate | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Fluoranthene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Fluorene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Hexachlorobenzene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Hexachlorobutadiene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Hexachlorocyclopentadiene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Hexachloroethane | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Indeno (1,2,3-cd) pyrene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Isophorone | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Naphthalene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Nitrobenzene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| N-Nitroso-di-n-propylamine | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| N-Nitrosodiphenylamine | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Pentachlorophenol | < 20.0 | ug/L | 9/20/2023 | 18:49 |
| Phenanthrene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Phenol | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| Pyrene | < 10.0 | ug/L | 9/20/2023 | 18:49 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-04-09152023

Lab Sample ID: 234271-04 **Date Sampled:** 9/15/2023 9:20

Matrix: Groundwater Date Received 9/15/2023

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date An | <u>alyzed</u> |
|----------------------|------------------|---------------|-----------------|-----------|---------------|
| 2,4,6-Tribromophenol | 92.7 | 49 - 127 | | 9/20/2023 | 18:49 |
| 2-Fluorobiphenyl | 36.4 | 10 - 107 | | 9/20/2023 | 18:49 |
| 2-Fluorophenol | 49.2 | 10.6 - 109 | | 9/20/2023 | 18:49 |
| Nitrobenzene-d5 | 54.8 | 41 - 106 | | 9/20/2023 | 18:49 |
| Phenol-d5 | 41.3 | 10 - 109 | | 9/20/2023 | 18:49 |
| Terphenyl-d14 | 78.6 | 49.6 - 120 | | 9/20/2023 | 18:49 |

Method Reference(s): EPA 8270D

EPA 3510C

 Preparation Date:
 9/20/2023

 Data File:
 B66930.D

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier | Date Anal | yzed |
|-----------------------------|--------|--------------|-----------|-----------|-------|
| 1,1,1-Trichloroethane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,1,2,2-Tetrachloroethane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,1,2-Trichloroethane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,1-Dichloroethane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,1-Dichloroethene | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,2,3-Trichlorobenzene | < 5.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,2,4-Trichlorobenzene | < 5.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,2-Dibromo-3-Chloropropane | < 10.0 | ug/L | | 9/20/2023 | 20:02 |
| 1,2-Dibromoethane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,2-Dichlorobenzene | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,2-Dichloroethane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,2-Dichloropropane | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,3-Dichlorobenzene | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,4-Dichlorobenzene | < 2.00 | ug/L | | 9/20/2023 | 20:02 |
| 1,4-Dioxane | < 10.0 | ug/L | | 9/20/2023 | 20:02 |
| 2-Butanone | < 10.0 | ug/L | | 9/20/2023 | 20:02 |
| 2-Hexanone | < 5.00 | ug/L | | 9/20/2023 | 20:02 |
| 4-Methyl-2-pentanone | < 5.00 | ug/L | | 9/20/2023 | 20:02 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-04-09152023

Lab Sample ID: 234271-04 **Date Sampled:** 9/15/2023 9:20

Matrix: Groundwater Date Received 9/15/2023

| Acetone | 24.4 | ug/L | 9/20/2023 20:02 | |
|--------------------------|--------|------|-----------------|--|
| Benzene | < 1.00 | ug/L | 9/20/2023 20:02 | |
| Bromochloromethane | < 5.00 | ug/L | 9/20/2023 20:02 | |
| Bromodichloromethane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Bromoform | < 5.00 | ug/L | 9/20/2023 20:02 | |
| Bromomethane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Carbon disulfide | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Carbon Tetrachloride | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Chlorobenzene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Chloroethane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Chloroform | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Chloromethane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| cis-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| cis-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Cyclohexane | < 10.0 | ug/L | 9/20/2023 20:02 | |
| Dibromochloromethane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Dichlorodifluoromethane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Ethylbenzene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Freon 113 | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Isopropylbenzene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| m,p-Xylene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Methyl acetate | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Methyl tert-butyl Ether | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Methylcyclohexane | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Methylene chloride | < 5.00 | ug/L | 9/20/2023 20:02 | |
| o-Xylene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Styrene | < 5.00 | ug/L | 9/20/2023 20:02 | |
| Tetrachloroethene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| Toluene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| trans-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 20:02 | |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-04-09152023

Lab Sample ID: 234271-04 **Date Sampled:** 9/15/2023 9:20

Matrix: Groundwater Date Received 9/15/2023

| trans-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 20:02 |
|---------------------------|--------|------|-----------------|
| Trichloroethene | < 2.00 | ug/L | 9/20/2023 20:02 |
| Trichlorofluoromethane | < 2.00 | ug/L | 9/20/2023 20:02 |
| Vinyl chloride | < 2.00 | ug/L | 9/20/2023 20:02 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date An</u> | <u>alyzed</u> |
|-----------------------|------------------|---------------|-----------------|----------------|---------------|
| 1,2-Dichloroethane-d4 | 110 | 79.7 - 118 | | 9/20/2023 | 20:02 |
| 4-Bromofluorobenzene | 95.9 | 80.1 - 112 | | 9/20/2023 | 20:02 |
| Pentafluorobenzene | 96.1 | 88 - 115 | | 9/20/2023 | 20:02 |
| Toluene-D8 | 108 | 88.2 - 113 | | 9/20/2023 | 20:02 |

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z19683.D



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-05-09152023

Lab Sample ID: 234271-05 **Date Sampled:** 9/15/2023 9:25

Matrix: Groundwater Date Received 9/15/2023

Ammonia-N

Analyte Result Units Qualifier Date Analyzed

Ammonia <0.1 mg/L 9/19/2023

Method Reference(s): EPA 350.1 Rev 2.0

Subcontractor ELAP ID: 10709

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total <0.010 mg/L 9/21/2023

Method Reference(s): EPA 335.4 Rev 1.0

Subcontractor ELAP ID: 10709

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | Qualifier | Date Analy | <u>vzed</u> |
|------------------------------|---------------|--------------|-----------|------------|-------------|
| 1,1-Biphenyl | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 1,2,4,5-Tetrachlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 1,2,4-Trichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 1,2-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 1,3-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 1,4-Dichlorobenzene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,2-Oxybis (1-chloropropane) | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,3,4,6-Tetrachlorophenol | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,4,5-Trichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,4,6-Trichlorophenol | < 20.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,4-Dichlorophenol | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,4-Dimethylphenol | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,4-Dinitrophenol | < 20.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,4-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2,6-Dinitrotoluene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2-Chloronaphthalene | < 10.0 | ug/L | | 9/20/2023 | 19:17 |
| 2-Chlorophenol | < 10.0 | ug/L | | 9/20/2023 | 19:17 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-05-09152023

Lab Sample ID: 234271-05 **Date Sampled:** 9/15/2023 9:25

Matrix: Groundwater Date Received 9/15/2023

| 2-Methylnapthalene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
|------------------------------|--------|------|-----------|-------|
| 2-Methylphenol | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 2-Nitroaniline | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| 2-Nitrophenol | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 3&4-Methylphenol | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 3,3'-Dichlorobenzidine | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 3-Nitroaniline | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| 4,6-Dinitro-2-methylphenol | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| 4-Bromophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 4-Chloro-3-methylphenol | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 4-Chloroaniline | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 4-Chlorophenyl phenyl ether | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| 4-Nitroaniline | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| 4-Nitrophenol | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| Acenaphthene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Acenaphthylene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Acetophenone | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Anthracene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Atrazine | < 25.0 | ug/L | 9/20/2023 | 19:17 |
| Benzaldehyde | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Benzo (a) anthracene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Benzo (a) pyrene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Benzo (b) fluoranthene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Benzo (g,h,i) perylene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Benzo (k) fluoranthene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Bis (2-chloroethoxy) methane | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Bis (2-chloroethyl) ether | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Bis (2-ethylhexyl) phthalate | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Butylbenzylphthalate | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Caprolactam | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-05-09152023

Lab Sample ID: 234271-05 **Date Sampled:** 9/15/2023 9:25

Matrix: Groundwater Date Received 9/15/2023

| Carbazole | < 10.0 | ug/L | 9/20/2023 | 19:17 |
|----------------------------|--------|------|-----------|-------|
| Chrysene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Dibenz (a,h) anthracene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Dibenzofuran | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Diethyl phthalate | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Dimethyl phthalate | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| Di-n-butyl phthalate | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Di-n-octylphthalate | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Fluoranthene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Fluorene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Hexachlorobenzene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Hexachlorobutadiene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Hexachlorocyclopentadiene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Hexachloroethane | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Indeno (1,2,3-cd) pyrene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Isophorone | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Naphthalene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Nitrobenzene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| N-Nitroso-di-n-propylamine | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| N-Nitrosodiphenylamine | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Pentachlorophenol | < 20.0 | ug/L | 9/20/2023 | 19:17 |
| Phenanthrene | 17.5 | ug/L | 9/20/2023 | 19:17 |
| Phenol | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| Pyrene | < 10.0 | ug/L | 9/20/2023 | 19:17 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Inventum Engineering, P.C. Client:

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-05-09152023

Date Sampled: 9/15/2023 9:25 Lab Sample ID: 234271-05

Date Received 9/15/2023 **Matrix:** Groundwater

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date An | alyzed |
|----------------------|------------------|---------------|-----------------|-----------|--------|
| 2,4,6-Tribromophenol | 92.9 | 49 - 127 | | 9/20/2023 | 19:17 |
| 2-Fluorobiphenyl | 39.2 | 10 - 107 | | 9/20/2023 | 19:17 |
| 2-Fluorophenol | 34.6 | 10.6 - 109 | | 9/20/2023 | 19:17 |
| Nitrobenzene-d5 | 58.2 | 41 - 106 | | 9/20/2023 | 19:17 |
| Phenol-d5 | 24.1 | 10 - 109 | | 9/20/2023 | 19:17 |
| Terphenyl-d14 | 77.2 | 49.6 - 120 | | 9/20/2023 | 19:17 |

Method Reference(s): EPA 8270D

EPA 3510C

Preparation Date: 9/20/2023

Data File: B66931.D

Volatile Organics

| 1,1,1-Trichloroethane < 2.00 ug/L 9/20/2023 | 20:21 |
|---|-------|
| | |
| 1,1,2,2-Tetrachloroethane < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,1,2-Trichloroethane < 2.00 ug/L 9/20/2023 | |
| 1,1-Dichloroethane < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,1-Dichloroethene < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,2,3-Trichlorobenzene < 5.00 ug/L 9/20/2023 | 20:21 |
| 1,2,4-Trichlorobenzene < 5.00 ug/L 9/20/2023 | 20:21 |
| 1,2-Dibromo-3-Chloropropane < 10.0 ug/L 9/20/2023 | 20:21 |
| 1,2-Dibromoethane < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,2-Dichlorobenzene < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,2-Dichloroethane < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,2-Dichloropropane < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,3-Dichlorobenzene < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,4-Dichlorobenzene < 2.00 ug/L 9/20/2023 | 20:21 |
| 1,4-Dioxane < 10.0 ug/L 9/20/2023 | 20:21 |
| 2-Butanone < 10.0 ug/L 9/20/2023 | 20:21 |
| 2-Hexanone < 5.00 ug/L 9/20/2023 | 20:21 |
| 4-Methyl-2-pentanone < 5.00 ug/L 9/20/2023 | 20:21 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-05-09152023

Lab Sample ID: 234271-05 **Date Sampled:** 9/15/2023 9:25

Matrix: Groundwater Date Received 9/15/2023

| Acetone | 14.1 | ug/L | 9/20/2023 20:21 | |
|--------------------------|--------|------|-----------------|--|
| Benzene | < 1.00 | ug/L | 9/20/2023 20:21 | |
| Bromochloromethane | < 5.00 | ug/L | 9/20/2023 20:21 | |
| Bromodichloromethane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Bromoform | < 5.00 | ug/L | 9/20/2023 20:21 | |
| Bromomethane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Carbon disulfide | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Carbon Tetrachloride | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Chlorobenzene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Chloroethane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Chloroform | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Chloromethane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| cis-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| cis-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Cyclohexane | < 10.0 | ug/L | 9/20/2023 20:21 | |
| Dibromochloromethane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Dichlorodifluoromethane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Ethylbenzene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Freon 113 | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Isopropylbenzene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| m,p-Xylene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Methyl acetate | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Methyl tert-butyl Ether | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Methylcyclohexane | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Methylene chloride | < 5.00 | ug/L | 9/20/2023 20:21 | |
| o-Xylene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Styrene | < 5.00 | ug/L | 9/20/2023 20:21 | |
| Tetrachloroethene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| Toluene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| trans-1,2-Dichloroethene | < 2.00 | ug/L | 9/20/2023 20:21 | |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-05-09152023

Lab Sample ID: 234271-05 **Date Sampled:** 9/15/2023 9:25

Matrix: Groundwater Date Received 9/15/2023

| trans-1,3-Dichloropropene | < 2.00 | ug/L | 9/20/2023 20:21 |
|---------------------------|--------|------|-----------------|
| Trichloroethene | < 2.00 | ug/L | 9/20/2023 20:21 |
| Trichlorofluoromethane | < 2.00 | ug/L | 9/20/2023 20:21 |
| Vinyl chloride | < 2.00 | ug/L | 9/20/2023 20:21 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date An</u> | <u>alyzed</u> |
|-----------------------|------------------|---------------|-----------------|----------------|---------------|
| 1,2-Dichloroethane-d4 | 109 | 79.7 - 118 | | 9/20/2023 | 20:21 |
| 4-Bromofluorobenzene | 95.5 | 80.1 - 112 | | 9/20/2023 | 20:21 |
| Pentafluorobenzene | 98.2 | 88 - 115 | | 9/20/2023 | 20:21 |
| Toluene-D8 | 109 | 88.2 - 113 | | 9/20/2023 | 20:21 |

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z19684.D



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-06-09152023

Lab Sample ID: 234271-06 **Date Sampled:** 9/15/2023 9:30

Matrix: Solid Date Received 9/15/2023

Ammonia-N

Analyte Result Units Qualifier Date Analyzed

Ammonia <10.0 mg/Kg 9/19/2023

Method Reference(s): SM 4500 NH3 G - 2011

Subcontractor ELAP ID: 10709

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total <0.50 mg/Kg 9/19/2023

Method Reference(s):EPA 9012BSubcontractor ELAP ID:10709

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | <u>Result</u> | <u>Units</u> | Qualifier | Date Analy | <u>vzed</u> |
|------------------------------|---------------|--------------|-----------|------------|-------------|
| 1,1-Biphenyl | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 1,2,4,5-Tetrachlorobenzene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 1,2,4-Trichlorobenzene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 1,2-Dichlorobenzene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 1,3-Dichlorobenzene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 1,4-Dichlorobenzene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,2-Oxybis (1-chloropropane) | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,3,4,6-Tetrachlorophenol | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,4,5-Trichlorophenol | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,4,6-Trichlorophenol | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,4-Dichlorophenol | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,4-Dimethylphenol | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,4-Dinitrophenol | < 1090 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,4-Dinitrotoluene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2,6-Dinitrotoluene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2-Chloronaphthalene | < 272 | ug/Kg | | 9/20/2023 | 21:10 |
| 2-Chlorophenol | < 272 | ug/Kg | | 9/20/2023 | 21:10 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-06-09152023

Lab Sample ID: 234271-06 **Date Sampled:** 9/15/2023 9:30

Matrix: Solid Date Received 9/15/2023

| 2-Methylnapthalene | 765 | ug/Kg | 9/20/2023 | 21:10 |
|------------------------------|-------|-------|-----------|-------|
| 2-Methylphenol | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 2-Nitroaniline | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 2-Nitrophenol | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 3&4-Methylphenol | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 3,3'-Dichlorobenzidine | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 3-Nitroaniline | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 4,6-Dinitro-2-methylphenol | < 364 | ug/Kg | 9/20/2023 | 21:10 |
| 4-Bromophenyl phenyl ether | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 4-Chloro-3-methylphenol | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 4-Chloroaniline | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 4-Chlorophenyl phenyl ether | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 4-Nitroaniline | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| 4-Nitrophenol | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Acenaphthene | 1130 | ug/Kg | 9/20/2023 | 21:10 |
| Acenaphthylene | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Acetophenone | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Anthracene | 985 | ug/Kg | 9/20/2023 | 21:10 |
| Atrazine | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Benzaldehyde | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Benzo (a) anthracene | 3430 | ug/Kg | 9/20/2023 | 21:10 |
| Benzo (a) pyrene | 6430 | ug/Kg | 9/20/2023 | 21:10 |
| Benzo (b) fluoranthene | 6320 | ug/Kg | 9/20/2023 | 21:10 |
| Benzo (g,h,i) perylene | 5010 | ug/Kg | 9/20/2023 | 21:10 |
| Benzo (k) fluoranthene | 3050 | ug/Kg | 9/20/2023 | 21:10 |
| Bis (2-chloroethoxy) methane | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Bis (2-chloroethyl) ether | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Bis (2-ethylhexyl) phthalate | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Butylbenzylphthalate | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| Caprolactam | < 272 | ug/Kg | 9/20/2023 | 21:10 |
| | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-06-09152023

Lab Sample ID: 234271-06 **Date Sampled:** 9/15/2023 9:30

Matrix: Solid Date Received 9/15/2023

| Carbazole | 320 | ug/Kg | 9/20/2023 21:10 |
|----------------------------|--------|-------|-----------------|
| Chrysene | 4210 | ug/Kg | 9/20/2023 21:10 |
| Dibenz (a,h) anthracene | 1500 | ug/Kg | 9/20/2023 21:10 |
| Dibenzofuran | 326 | ug/Kg | 9/20/2023 21:10 |
| Diethyl phthalate | < 272 | ug/Kg | 9/20/2023 21:10 |
| Dimethyl phthalate | < 272 | ug/Kg | 9/20/2023 21:10 |
| Di-n-butyl phthalate | < 272 | ug/Kg | 9/20/2023 21:10 |
| Di-n-octylphthalate | < 272 | ug/Kg | 9/20/2023 21:10 |
| Fluoranthene | < 272 | ug/Kg | 9/20/2023 21:10 |
| Fluorene | < 272 | ug/Kg | 9/20/2023 21:10 |
| Hexachlorobenzene | < 272 | ug/Kg | 9/20/2023 21:10 |
| Hexachlorobutadiene | < 272 | ug/Kg | 9/20/2023 21:10 |
| Hexachlorocyclopentadiene | < 1090 | ug/Kg | 9/20/2023 21:10 |
| Hexachloroethane | < 272 | ug/Kg | 9/20/2023 21:10 |
| Indeno (1,2,3-cd) pyrene | 3780 | ug/Kg | 9/20/2023 21:10 |
| Isophorone | < 272 | ug/Kg | 9/20/2023 21:10 |
| Naphthalene | 1190 | ug/Kg | 9/20/2023 21:10 |
| Nitrobenzene | < 272 | ug/Kg | 9/20/2023 21:10 |
| N-Nitroso-di-n-propylamine | < 272 | ug/Kg | 9/20/2023 21:10 |
| N-Nitrosodiphenylamine | < 272 | ug/Kg | 9/20/2023 21:10 |
| Pentachlorophenol | < 543 | ug/Kg | 9/20/2023 21:10 |
| Phenanthrene | 2800 | ug/Kg | 9/20/2023 21:10 |
| Phenol | < 272 | ug/Kg | 9/20/2023 21:10 |
| Pyrene | 4520 | ug/Kg | 9/20/2023 21:10 |
| | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-06-09152023

Lab Sample ID: 234271-06 **Date Sampled:** 9/15/2023 9:30

Matrix: Solid Date Received 9/15/2023

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date An</u> | alyzed |
|----------------------|------------------|---------------|-----------------|----------------|--------|
| 2,4,6-Tribromophenol | 28.8 | 35.1 - 95.9 | * | 9/20/2023 | 21:10 |
| 2-Fluorobiphenyl | 31.0 | 10 - 156 | | 9/20/2023 | 21:10 |
| 2-Fluorophenol | 31.2 | 36 - 81.3 | * | 9/20/2023 | 21:10 |
| Nitrobenzene-d5 | 27.6 | 31.5 - 83.8 | * | 9/20/2023 | 21:10 |
| Phenol-d5 | 28.2 | 37.7 - 84 | * | 9/20/2023 | 21:10 |
| Terphenyl-d14 | 29.3 | 40.5 - 99.5 | * | 9/20/2023 | 21:10 |

Method Reference(s): EPA 8270D

EPA 3546

Preparation Date: 9/20/2023 Data File: B66935.D

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier Date Analyzed |
|-----------------------------|--------|--------------|-------------------------|
| 1,1,1-Trichloroethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,1,2,2-Tetrachloroethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,1,2-Trichloroethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,1-Dichloroethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,1-Dichloroethene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,2,3-Trichlorobenzene | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| 1,2,4-Trichlorobenzene | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| 1,2-Dibromo-3-Chloropropane | < 40.0 | ug/Kg | 9/21/2023 14:17 |
| 1,2-Dibromoethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,2-Dichlorobenzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,2-Dichloroethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,2-Dichloropropane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,3-Dichlorobenzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,4-Dichlorobenzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| 1,4-Dioxane | < 40.0 | ug/Kg | 9/21/2023 14:17 |
| 2-Butanone | < 40.0 | ug/Kg | 9/21/2023 14:17 |
| 2-Hexanone | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| 4-Methyl-2-pentanone | < 20.0 | ug/Kg | 9/21/2023 14:17 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-06-09152023

Lab Sample ID: 234271-06 **Date Sampled:** 9/15/2023 9:30

Matrix: Solid Date Received 9/15/2023

| Acetone | < 40.0 | ug/Kg | 9/21/2023 14:17 |
|--------------------------|--------|-------|-----------------|
| Benzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Bromochloromethane | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| Bromodichloromethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Bromoform | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| Bromomethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Carbon disulfide | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Carbon Tetrachloride | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Chlorobenzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Chloroethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Chloroform | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Chloromethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| cis-1,2-Dichloroethene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| cis-1,3-Dichloropropene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Cyclohexane | < 40.0 | ug/Kg | 9/21/2023 14:17 |
| Dibromochloromethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Dichlorodifluoromethane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Ethylbenzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Freon 113 | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Isopropylbenzene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| m,p-Xylene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Methyl acetate | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Methyl tert-butyl Ether | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Methylcyclohexane | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Methylene chloride | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| o-Xylene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Styrene | < 20.0 | ug/Kg | 9/21/2023 14:17 |
| Tetrachloroethene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| Toluene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| trans-1,2-Dichloroethene | < 8.00 | ug/Kg | 9/21/2023 14:17 |
| | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Sample Identifier: BreezeTest-06-09152023

Lab Sample ID: 234271-06 **Date Sampled:** 9/15/2023 9:30

Matrix: Solid Date Received 9/15/2023

| | _ | | - | 0 .11 | | |
|---------------------------|--------|-------|----------|-------|-----------|-------|
| Vinyl chloride | < 8.00 | ug/Kg | | | 9/21/2023 | 14:17 |
| Trichlorofluoromethane | < 8.00 | ug/Kg | | | 9/21/2023 | 14:17 |
| Trichloroethene | < 8.00 | ug/Kg | | | 9/21/2023 | 14:17 |
| trans-1,3-Dichloropropene | < 8.00 | ug/Kg | | | 9/21/2023 | 14:17 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date An</u> | <u>alyzed</u> |
|-----------------------|------------------|---------------|-----------------|----------------|---------------|
| 1,2-Dichloroethane-d4 | 101 | 72.3 - 128 | | 9/21/2023 | 14:17 |
| 4-Bromofluorobenzene | 71.9 | 70 - 123 | | 9/21/2023 | 14:17 |
| Pentafluorobenzene | 97.5 | 80.7 - 124 | | 9/21/2023 | 14:17 |
| Toluene-D8 | 102 | 82.1 - 121 | | 9/21/2023 | 14:17 |

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z19701.D



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

| Analyte | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|------------------------------|--------|--------------|-----------|-------------------|-------|
| | | | | | |
| 1,1-Biphenyl | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 1,2,4,5-Tetrachlorobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 1,2,4-Trichlorobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 1,2-Dichlorobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 1,3-Dichlorobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 1,4-Dichlorobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,2-0xybis (1-chloropropane) | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,3,4,6-Tetrachlorophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,4,5-Trichlorophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,4,6-Trichlorophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,4-Dichlorophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,4-Dimethylphenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,4-Dinitrophenol | <1050 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,4-Dinitrotoluene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2,6-Dinitrotoluene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2-Chloronaphthalene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2-Chlorophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2-Methylnapthalene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2-Methylphenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2-Nitroaniline | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 2-Nitrophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 3&4-Methylphenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 3,3'-Dichlorobenzidine | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 3-Nitroaniline | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 4,6-Dinitro-2-methylphenol | <524 | ug/Kg | | 9/20/2023 | 19:45 |
| 4-Bromophenyl phenyl ether | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 4-Chloro-3-methylphenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| | | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|------------------------------|--------|--------------|------------------|-------------------|-------|
| 4-Chloroaniline | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 4-Chlorophenyl phenyl ether | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 4-Nitroaniline | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| 4-Nitrophenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Acenaphthene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Acenaphthylene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Acetophenone | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Anthracene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Atrazine | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Benzaldehyde | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Benzo (a) anthracene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Benzo (a) pyrene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Benzo (b) fluoranthene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Benzo (g,h,i) perylene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Benzo (k) fluoranthene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Bis (2-chloroethoxy) methane | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Bis (2-chloroethyl) ether | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Bis (2-ethylhexyl) phthalate | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Butylbenzylphthalate | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Caprolactam | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Carbazole | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Chrysene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Dibenz (a,h) anthracene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Dibenzofuran | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Diethyl phthalate | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Dimethyl phthalate | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Di-n-butyl phthalate | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Di-n-octylphthalate | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| | | | | | |



Inventum Engineering, P.C. Client:

Project Reference: Breeze Water Testing

Lab Project ID: 234271 **Matrix:** Solid

Semi-Volatile Organics (Acid/Base Neutrals)

| m-voluthe organics (Acia/Base Ne | นน นเรา | | | | |
|----------------------------------|------------------|---------------|------------------|------------|-------|
| Analyte | Result | <u>Units</u> | Qualifier | Date Analy | zed |
| | | | | | |
| Fluoranthene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Fluorene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Hexachlorobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Hexachlorobutadiene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Hexachlorocyclopentadiene | <1050 | ug/Kg | | 9/20/2023 | 19:45 |
| Hexachloroethane | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Indeno (1,2,3-cd) pyrene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Isophorone | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Naphthalene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Nitrobenzene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| N-Nitroso-di-n-propylamine | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| N-Nitrosodiphenylamine | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Pentachlorophenol | <524 | ug/Kg | | 9/20/2023 | 19:45 |
| Phenanthrene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Phenol | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Pyrene | <262 | ug/Kg | | 9/20/2023 | 19:45 |
| Surrogate | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Ana | yzed |
| 2,4,6-Tribromophenol | 69.6 | 35.1 - 95.9 | | 9/20/2023 | 19:45 |
| 2-Fluorobiphenyl | 58.1 | 10 - 156 | | 9/20/2023 | 19:45 |
| 2-Fluorophenol | 54.4 | 36 - 81.3 | | 9/20/2023 | 19:45 |
| | | | | | |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | <u>Date Anal</u> | <u>yzed</u> |
|----------------------|------------------|---------------|-----------------|------------------|-------------|
| 2,4,6-Tribromophenol | 69.6 | 35.1 - 95.9 | | 9/20/2023 | 19:45 |
| 2-Fluorobiphenyl | 58.1 | 10 - 156 | | 9/20/2023 | 19:45 |
| 2-Fluorophenol | 54.4 | 36 - 81.3 | | 9/20/2023 | 19:45 |
| Nitrobenzene-d5 | 50.3 | 31.5 - 83.8 | | 9/20/2023 | 19:45 |
| Phenol-d5 | 54.5 | 37.7 - 84 | | 9/20/2023 | 19:45 |
| Terphenyl-d14 | 68.0 | 40.5 - 99.5 | | 9/20/2023 | 19:45 |

Method Reference(s): EPA 8270D

EPA 3546

Preparation Date: 9/20/2023 Data File: B66932.D QC Batch ID: QC2309020ABNS

QC Number: Blk 1



QC Report for Laboratory Control Sample

Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

| | <u>Spike</u> | <u>Spike</u> | <u>LCS</u> | LCS % | % Rec | <u>LCS</u> | <u>Date</u> |
|----------------------------|--------------|--------------|------------|----------|---------------|-----------------|-------------|
| <u>Analyte</u> | Added | <u>Units</u> | Result | Recovery | <u>Limits</u> | <u>Outliers</u> | Analyzed |
| 1,2,4-Trichlorobenzene | 2530 | ug/Kg | 1640 | 64.8 | 41.2 - 84.4 | | 9/20/2023 |
| 1,4-Dichlorobenzene | 2530 | ug/Kg | 1540 | 60.9 | 39.2 - 74.5 | | 9/20/2023 |
| 2,3,4,6-Tetrachlorophenol | 3790 | ug/Kg | 2700 | 71.4 | 46.8 - 91.6 | | 9/20/2023 |
| 2,4,6-Trichlorophenol | 3790 | ug/Kg | 2800 | 73.8 | 49.4 - 96.7 | | 9/20/2023 |
| 2,4-Dichlorophenol | 3790 | ug/Kg | 2650 | 70.0 | 49.9 - 90 | | 9/20/2023 |
| 2,4-Dimethylphenol | 3790 | ug/Kg | 2480 | 65.5 | 40.5 - 92.9 | | 9/20/2023 |
| 2,4-Dinitrophenol | 3790 | ug/Kg | 2020 | 53.5 | 10 - 76.8 | | 9/20/2023 |
| 2,4-Dinitrotoluene | 2530 | ug/Kg | 1850 | 73.4 | 37.8 - 99.2 | | 9/20/2023 |
| 2-Chlorophenol | 3790 | ug/Kg | 2510 | 66.2 | 48.2 - 82.9 | | 9/20/2023 |
| 2-Nitrophenol | 3790 | ug/Kg | 2440 | 64.5 | 45.2 - 85.7 | | 9/20/2023 |
| 4,6-Dinitro-2-methylphenol | 3790 | ug/Kg | 2740 | 72.3 | 22.6 - 92.8 | | 9/20/2023 |
| 4-Chloro-3-methylphenol | 3790 | ug/Kg | 2710 | 71.6 | 48.3 - 93.6 | | 9/20/2023 |
| 4-Nitrophenol | 3790 | ug/Kg | 2430 | 64.2 | 19.3 - 106 | | 9/20/2023 |
| Acenaphthene | 2530 | ug/Kg | 1760 | 69.5 | 44.2 - 90.1 | | 9/20/2023 |
| N-Nitroso-di-n-propylamine | 2530 | ug/Kg | 1560 | 61.7 | 36.5 - 87.1 | | 9/20/2023 |
| Pentachlorophenol | 3790 | ug/Kg | 2970 | 78.3 | 33 - 110 | | 9/20/2023 |



QC Report for Laboratory Control Sample

Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

| | <u>Spike</u> | <u>Spike</u> | LCS | LCS % | % Rec | LCS | <u>Date</u> |
|----------------|--------------|--------------|------------|----------|---------------|-----------------|-------------|
| <u>Analyte</u> | Added | <u>Units</u> | Result | Recovery | <u>Limits</u> | Outliers | Analyzed |
| Phenol | 3790 | ug/Kg | 2490 | 65.6 | 45.5 - 83.9 | | 9/20/2023 |
| Pyrene | 2530 | ug/Kg | 1960 | 77.7 | 47.9 - 101 | | 9/20/2023 |

Method Reference(s): EPA 8270D

EPA 3546

 Preparation Date:
 9/20/2023

 Data File:
 B66933.D

 OC Number:
 LCS 1

QC Batch ID: QC2309020ABNS



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|------------------------------|--------|--------------|-----------|-------------------|-------|
| | | | | | |
| 1,1-Biphenyl | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 1,2,4,5-Tetrachlorobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 1,2,4-Trichlorobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 1,2-Dichlorobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 1,3-Dichlorobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 1,4-Dichlorobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,2-Oxybis (1-chloropropane) | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,3,4,6-Tetrachlorophenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,4,5-Trichlorophenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,4,6-Trichlorophenol | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,4-Dichlorophenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,4-Dimethylphenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,4-Dinitrophenol | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,4-Dinitrotoluene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2,6-Dinitrotoluene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2-Chloronaphthalene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2-Chlorophenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2-Methylnapthalene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2-Methylphenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 2-Nitroaniline | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| 2-Nitrophenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 3&4-Methylphenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 3,3'-Dichlorobenzidine | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 3-Nitroaniline | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| 4,6-Dinitro-2-methylphenol | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| 4-Bromophenyl phenyl ether | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 4-Chloro-3-methylphenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| | | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

Semi-Volatile Organics (Acid/Base Neutrals)

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|------------------------------|--------|--------------|-----------|-------------------|-------|
| 4-Chloroaniline | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 4-Chlorophenyl phenyl ether | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| 4-Nitroaniline | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| 4-Nitrophenol | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| Acenaphthene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Acenaphthylene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Acetophenone | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Anthracene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Atrazine | <25.0 | ug/L | | 9/20/2023 | 16:55 |
| Benzaldehyde | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Benzo (a) anthracene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Benzo (a) pyrene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Benzo (b) fluoranthene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Benzo (g,h,i) perylene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Benzo (k) fluoranthene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Bis (2-chloroethoxy) methane | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Bis (2-chloroethyl) ether | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Bis (2-ethylhexyl) phthalate | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Butylbenzylphthalate | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Caprolactam | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Carbazole | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Chrysene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Dibenz (a,h) anthracene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Dibenzofuran | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Diethyl phthalate | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Dimethyl phthalate | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| Di-n-butyl phthalate | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Di-n-octylphthalate | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| | | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

Semi-Volatile Organics (Acid/Base Neutrals)

| Analyte | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|----------------------------|------------------|---------------|-----------------|-------------------|-------|
| Fluoranthene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Fluorene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Hexachlorobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Hexachlorobutadiene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Hexachlorocyclopentadiene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Hexachloroethane | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Indeno (1,2,3-cd) pyrene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Isophorone | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Naphthalene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Nitrobenzene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| N-Nitroso-di-n-propylamine | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| N-Nitrosodiphenylamine | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Pentachlorophenol | <20.0 | ug/L | | 9/20/2023 | 16:55 |
| Phenanthrene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Phenol | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Pyrene | <10.0 | ug/L | | 9/20/2023 | 16:55 |
| Surrogate | Percent Recovery | <u>Limits</u> | Outliers | Date Anal | yzed |
| 2,4,6-Tribromophenol | 93.1 | 49 - 127 | | 9/20/2023 | 16:55 |

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Anal | <u>yzed</u> |
|----------------------|------------------|---------------|-----------------|------------------|-------------|
| 2,4,6-Tribromophenol | 93.1 | 49 - 127 | | 9/20/2023 | 16:55 |
| 2-Fluorobiphenyl | 36.8 | 10 - 107 | | 9/20/2023 | 16:55 |
| 2-Fluorophenol | 34.6 | 10.6 - 109 | | 9/20/2023 | 16:55 |
| Nitrobenzene-d5 | 58.7 | 41 - 106 | | 9/20/2023 | 16:55 |
| Phenol-d5 | 24.5 | 10 - 109 | | 9/20/2023 | 16:55 |
| Terphenyl-d14 | 85.8 | 49.6 - 120 | | 9/20/2023 | 16:55 |

Method Reference(s): EPA 8270D

EPA 3510C

 Preparation Date:
 9/20/2023

 Data File:
 B66926.D

 QC Batch ID:
 QC2309020ABNW

QC Number: Blk 1



QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Groundwater

Matrix:

Semi-Volatile Organics (Acid/Base Neutrals)

| | Spike | Spike | LCS | LCS % | % Rec | LCS | Date |
|---|-----------------|----------------|--------|--|---|------------------|-----------|
| Analyte | Added | Units | Result | Recovery | Limits | Outliers | Analyzed |
| 1 2 4-Trichlorohenzene | 50 O | 119 /I. | 31 9 | 63.8 | 166 - 116 | | 9/21/2023 |
| 1,4-Dichlorobenzene | 50.0 | ug/L | 29.8 | 59.5 | 10 - 107 | | 9/21/2023 |
| 2,3,4,6-Tetrachlorophenol | 75.0 | ug/L | 63.0 | 84.0 | 44.4 - 130 | | 9/21/2023 |
| 2,4,6-Trichlorophenol | 75.0 | ug/L | 64.8 | 86.3 | 49.3 - 129 | | 9/21/2023 |
| 2,4-Dichlorophenol | 75.0 | ug/L | 61.7 | 82.3 | 57.3 - 116 | | 9/21/2023 |
| 2,4-Dimethylphenol | 75.0 | ug/L | 59.6 | 79.4 | 42.4 - 123 | | 9/21/2023 |
| 2,4-Dinitrophenol | 75.0 | ug/L | 60.3 | 80.4 | 14.4 - 130 | | 9/21/2023 |
| 2,4-Dinitrotoluene | 50.0 | ug/L | 40.9 | 81.7 | 50.8 - 124 | | 9/21/2023 |
| 2-Chlorophenol | 75.0 | ug/L | 56.9 | 75.8 | 48.8 - 110 | | 9/21/2023 |
| 2-Nitrophenol | 75.0 | ug/L | 62.8 | 83.7 | 54.2 - 117 | | 9/21/2023 |
| 4,6-Dinitro-2-methylphenol | 75.0 | ug/L | 68.3 | 91.0 | 16.7 - 137 | | 9/21/2023 |
| 4-Chloro-3-methylphenol | 75.0 | ug/L | 61.7 | 82.3 | 59.1 - 117 | | 9/21/2023 |
| 4-Nitrophenol | 75.0 | ug/L | 26.8 | 35.8 | 10 - 124 | | 9/21/2023 |
| Acenaphthene | 50.0 | ug/L | 38.8 | 77.6 | 43.3 - 115 | | 9/21/2023 |
| N-Nitroso-di-n-propylamine | 50.0 | ug/L | 38.2 | 76.5 | 46.1 - 118 | | 9/21/2023 |
| | 75.0 | ug/L | | 97.0 | 36.1 - 158 | | 9/21/2023 |
| This money is most of a multiment of amount and about a solution in its antisety. The Obein of O. | included in the | antimate Tha C | | المراجعة الم | atoda manaida additional amaila information including | motion in dividi | |

compliance with the sample condition requirements upon receipt. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including



QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

| Semi-Volatile Organics (Acid/Base Neutrals) | /Base Neutrals) | Spike | Spike | TCS | LCS % | % Rec | LCS | Date |
|---|-----------------|-------|-------|--------|----------|------------|----------|-----------|
| Analyte | | Added | Units | Result | Recovery | Limits | Outliers | Analyzed |
| Phenol | | 75.0 | ug/L | 25.1 | 33.5 | 10 - 116 | | 9/21/2023 |
| Pyrene | | 50.0 | ug/L | 41.9 | 83.9 | 55.4 - 122 | | 9/21/2023 |
| Method Reference(s): | EPA 8270D | | | | | | | |
| Preparation Date: | 9/20/2023 | | | | | | | |
| Data File: | B66976.D | | | | | | | |
| QC Number: | LCS 1 | | | | | | | |
| QC Batch ID: | QC2309020ABNW | | | | | | | |
| | | | | | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, September 25, 2023



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Solid

Volatile Organics

| <2.00 <2.00 <2.00 | ug/Kg ug/Kg | | 9/21/2023 | 13:39 |
|-------------------------|---|-------|---------------------|-------|
| <2.00 | | | 9/21/2023 | 13:39 |
| | ug/Kg | | | |
| <2.00 | · · | | 9/21/2023 | 13:39 |
| | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <10.0 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <10.0 | ug/Kg | | 9/21/2023 | 13:39 |
| <10.0 | ug/Kg | | 9/21/2023 | 13:39 |
| <5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| < 5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <10.0 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| < 5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| < 5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| | <2.00 <2.00 <5.00 <5.00 <10.0 <2.00 <2.00 <2.00 <2.00 <2.00 <10.0 <10.0 <5.00 <10.0 <5.00 <10.0 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <5.00 <10.0 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 <2.00 | <2.00 | <pre><2.00</pre> | <2.00 |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Solid

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|---------------------------|--------|--------------|-----------|------------|-------|
| Chloroethane | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Chloroform | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Chloromethane | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| cis-1,2-Dichloroethene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| cis-1,3-Dichloropropene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Cyclohexane | <10.0 | ug/Kg | | 9/21/2023 | 13:39 |
| Dibromochloromethane | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Dichlorodifluoromethane | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Ethylbenzene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Freon 113 | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Isopropylbenzene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| m,p-Xylene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Methyl acetate | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Methyl tert-butyl Ether | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Methylcyclohexane | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Methylene chloride | < 5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| o-Xylene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Styrene | <5.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Tetrachloroethene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Toluene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| trans-1,2-Dichloroethene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| trans-1,3-Dichloropropene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Trichloroethene | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Trichlorofluoromethane | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |
| Vinyl chloride | <2.00 | ug/Kg | | 9/21/2023 | 13:39 |



Inventum Engineering, P.C. Client:

Breeze Water Testing Project Reference:

Lab Project ID: 234271 **Matrix:** Solid

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|-----------------------|------------------|---------------|------------------|-------------------|-------|
| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Anal | lyzed |
| 1,2-Dichloroethane-d4 | 106 | 72.3 - 128 | | 9/21/2023 | 13:39 |
| 4-Bromofluorobenzene | 95.8 | 70 - 123 | | 9/21/2023 | 13:39 |
| Pentafluorobenzene | 98.2 | 80.7 - 124 | | 9/21/2023 | 13:39 |
| Toluene-D8 | 110 | 82.1 - 121 | | 9/21/2023 | 13:39 |

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z19699.D QC Batch ID: voas230921 QC Number: Blk 1



Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Solid

Matrix:

Volatile Organics

| | Spike | Spike | LCS | LCS % | % Rec | LCS | Date |
|---------------------------|-------|-------|--------|----------|------------|----------|-----------|
| Analyte | Added | Units | Result | Recovery | Limits | Outliers | Analyzed |
| 1.1.1-Trichloroethane | 20.0 | ug/Kg | 20.0 | 99.9 | 69.1 - 120 | | 9/21/2023 |
| 1,1,2,2-Tetrachloroethane | 20.0 | ug/Kg | 19.7 | 98.7 | 21 - 179 | | 9/21/2023 |
| 1,1,2-Trichloroethane | 20.0 | ug/Kg | 20.5 | 102 | 64.1 - 126 | | 9/21/2023 |
| 1,1-Dichloroethane | 20.0 | ug/Kg | 19.9 | 99.5 | 75.4 - 113 | | 9/21/2023 |
| 1,1-Dichloroethene | 20.0 | ug/Kg | 19.2 | 95.8 | 71.2 - 116 | | 9/21/2023 |
| 1,2-Dichlorobenzene | 20.0 | ug/Kg | 18.8 | 94.1 | 76.4 - 116 | | 9/21/2023 |
| 1,2-Dichloroethane | 20.0 | ug/Kg | 20.4 | 102 | 69.4 - 121 | | 9/21/2023 |
| 1,2-Dichloropropane | 20.0 | ug/Kg | 19.9 | 99.5 | 74.7 - 115 | | 9/21/2023 |
| 1,3-Dichlorobenzene | 20.0 | ug/Kg | 18.6 | 93.1 | 77.3 - 114 | | 9/21/2023 |
| 1,4-Dichlorobenzene | 20.0 | ug/Kg | 18.3 | 91.6 | 77.5 - 112 | | 9/21/2023 |
| Benzene | 20.0 | ug/Kg | 20.4 | 102 | 78.4 - 116 | | 9/21/2023 |
| Bromodichloromethane | 20.0 | ug/Kg | 20.1 | 101 | 71.2 - 117 | | 9/21/2023 |
| Bromoform | 20.0 | ug/Kg | 19.0 | 95.0 | 63.5 - 121 | | 9/21/2023 |
| Bromomethane | 20.0 | ug/Kg | 21.1 | 106 | 61.6 - 128 | | 9/21/2023 |
| Carbon Tetrachloride | 20.0 | ug/Kg | 19.6 | 98.2 | 67.2 - 121 | | 9/21/2023 |
| obenzene | 20.0 | ug/Kg | 19.3 | | 81.1 - 119 | | 9/21/2023 |
| | | | | - 1 11 | 11 | | |



Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Solid

Matrix:

Volatile Organics

| | Spike | Spike | LCS | LCS % | % Rec | LCS | Date |
|---------------------------|-------|-------|-----------|----------|------------|----------|-----------|
| Analyte | Added | Units | Result | Recovery | Limits | Outliers | Analyzed |
| Chloroethane | 20.0 | па/Ка | 18.8 8 | 93.9 | 70.2 - 123 | | 9/21/2023 |
| Chloroform | 20.0 | ug/Kg | 18.9 | 94.5 | 76.5 - 113 | | 9/21/2023 |
| Chloromethane | 20.0 | ug/Kg | 15.4 | 77.1 | 53.8 - 125 | | 9/21/2023 |
| cis-1,3-Dichloropropene | 20.0 | ug/Kg | 20.5 | 103 | 69.7 - 115 | | 9/21/2023 |
| Dibromochloromethane | 20.0 | ug/Kg | 20.4 | 102 | 61.4 - 125 | | 9/21/2023 |
| Ethylbenzene | 20.0 | ug/Kg | 19.1 | 95.3 | 75.5 - 117 | | 9/21/2023 |
| Methylene chloride | 20.0 | ug/Kg | 22.4 | 112 | 65.8 - 125 | | 9/21/2023 |
| Tetrachloroethene | 20.0 | ug/Kg | 18.7 | 93.7 | 61.1 - 125 | | 9/21/2023 |
| Toluene | 20.0 | ug/Kg | 20.3 | 102 | 77.1 - 116 | | 9/21/2023 |
| trans-1,2-Dichloroethene | 20.0 | ug/Kg | 19.5 | 97.6 | 75.4 - 116 | | 9/21/2023 |
| trans-1,3-Dichloropropene | 20.0 | ug/Kg | 20.7 | 104 | 65.9 - 116 | | 9/21/2023 |
| Trichloroethene | 20.0 | ug/Kg | 20.9 | 104 | 75.8 - 120 | | 9/21/2023 |
| Trichlorofluoromethane | 20.0 | ug/Kg | 19.7 | 98.5 | 69 - 123 | | 9/21/2023 |
| Vinyl chloride | 20.0 | ug/Kg | 19.1 | 95.4 | 64 - 127 | | 9/21/2023 |



Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Solid

Matrix:

Volatile Organics

Analyte Added Spike Spike Units Result **LCS** Recovery LCS % Limits % Rec **Outliers** LCS **Analyzed** Date

Method Reference(s): EPA 8260C

EPA 5035A - L **Data File:** z19698.D **QC Number:** LCS 1

QC Batch ID:

voas230921

compliance with the sample condition requirements upon receipt. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including

Report Prepared Monday, September 25, 2023



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

Volatile Organics

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|-----------------------------|--------|--------------|------------------|-------------------|-------|
| | | | | | |
| 1,1,1-Trichloroethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,1,2,2-Tetrachloroethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,1,2-Trichloroethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,1-Dichloroethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,1-Dichloroethene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,2,3-Trichlorobenzene | <5.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,2,4-Trichlorobenzene | <5.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,2-Dibromo-3-Chloropropane | <10.0 | ug/L | | 9/20/2023 | 13:17 |
| 1,2-Dibromoethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,2-Dichlorobenzene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,2-Dichloroethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,2-Dichloropropane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,3-Dichlorobenzene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,4-Dichlorobenzene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| 1,4-Dioxane | <10.0 | ug/L | | 9/20/2023 | 13:17 |
| 2-Butanone | <10.0 | ug/L | | 9/20/2023 | 13:17 |
| 2-Hexanone | <5.00 | ug/L | | 9/20/2023 | 13:17 |
| 4-Methyl-2-pentanone | <5.00 | ug/L | | 9/20/2023 | 13:17 |
| Acetone | <10.0 | ug/L | | 9/20/2023 | 13:17 |
| Benzene | <1.00 | ug/L | | 9/20/2023 | 13:17 |
| Bromochloromethane | <5.00 | ug/L | | 9/20/2023 | 13:17 |
| Bromodichloromethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Bromoform | <5.00 | ug/L | | 9/20/2023 | 13:17 |
| Bromomethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Carbon disulfide | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Carbon Tetrachloride | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Chlorobenzene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| | | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

Volatile Organics

| Analyte | Result | <u>Units</u> | Qualifier | Date Analy | zed |
|---------------------------|--------|--------------|-----------|-------------------|-------|
| Chloroethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Chloroform | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Chloromethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| cis-1,2-Dichloroethene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| cis-1,3-Dichloropropene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Cyclohexane | <10.0 | ug/L | | 9/20/2023 | 13:17 |
| Dibromochloromethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Dichlorodifluoromethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Ethylbenzene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Freon 113 | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Isopropylbenzene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| m,p-Xylene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Methyl acetate | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Methyl tert-butyl Ether | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Methylcyclohexane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Methylene chloride | < 5.00 | ug/L | | 9/20/2023 | 13:17 |
| o-Xylene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Styrene | < 5.00 | ug/L | | 9/20/2023 | 13:17 |
| Tetrachloroethene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Toluene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| trans-1,2-Dichloroethene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| trans-1,3-Dichloropropene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Trichloroethene | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Trichlorofluoromethane | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| Vinyl chloride | <2.00 | ug/L | | 9/20/2023 | 13:17 |
| | | | | | |



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Matrix: Groundwater

Volatile Organics

| Analyte | | Result | <u>Units</u> | <u>Qualifier</u> | Date Analy | zed |
|-----------------------|-----------|------------------|---------------|------------------|-------------------|-------|
| Surrogate | | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date Anal | yzed |
| 1,2-Dichloroethane-d4 | | 113 | 79.7 - 118 | | 9/20/2023 | 13:17 |
| 4-Bromofluorobenzene | | 98.0 | 80.1 - 112 | | 9/20/2023 | 13:17 |
| Pentafluorobenzene | | 94.4 | 88 - 115 | | 9/20/2023 | 13:17 |
| Toluene-D8 | | 109 | 88.2 - 113 | | 9/20/2023 | 13:17 |
| Method Reference(s): | EPA 8260C | | | | | |

EPA 5030C

Data File:z19662.DQC Batch ID:voaw230920QC Number:Blk 1



Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Groundwater

Matrix:

Volatile Organics

| | Spike | Spike | LCS | LCS % | % Rec | LCS | Date |
|---------------------------|-------|-------|--------|----------|------------|----------|-----------|
| Analyte | Added | Units | Result | Recovery | Limits | Outliers | Analyzed |
| 1,1,1-Trichloroethane | 20.0 | ug/L | 19.3 | 96.3 | 72.2 - 115 | | 9/20/2023 |
| 1,1,2,2-Tetrachloroethane | 20.0 | ug/L | 19.0 | 95.0 | 79.1 - 121 | | 9/20/2023 |
| 1,1,2-Trichloroethane | 20.0 | ug/L | 20.2 | 101 | 80.9 - 111 | | 9/20/2023 |
| 1,1-Dichloroethane | 20.0 | ug/L | 18.9 | 94.4 | 74.9 - 111 | | 9/20/2023 |
| 1,1-Dichloroethene | 20.0 | ug/L | 18.4 | 91.8 | 70.1 - 114 | | 9/20/2023 |
| 1,2-Dichlorobenzene | 20.0 | ug/L | 18.4 | 92.2 | 83.9 - 108 | | 9/20/2023 |
| 1,2-Dichloroethane | 20.0 | ug/L | 19.8 | 99.0 | 76.2 - 113 | | 9/20/2023 |
| 1,2-Dichloropropane | 20.0 | ug/L | 19.3 | 96.3 | 82 - 107 | | 9/20/2023 |
| 1,3-Dichlorobenzene | 20.0 | ug/L | 18.2 | 91.2 | 84.7 - 106 | | 9/20/2023 |
| 1,4-Dichlorobenzene | 20.0 | ug/L | 17.8 | 89.2 | 84.8 - 105 | | 9/20/2023 |
| Benzene | 20.0 | ug/L | 19.5 | 97.4 | 82.6 - 111 | | 9/20/2023 |
| Bromodichloromethane | 20.0 | ug/L | 19.2 | 95.9 | 79.8 - 106 | | 9/20/2023 |
| Bromoform | 20.0 | ug/L | 18.0 | 90.2 | 76.1 - 112 | | 9/20/2023 |
| Bromomethane | 20.0 | ug/L | 20.2 | 101 | 64.7 - 125 | | 9/20/2023 |
| Carbon Tetrachloride | 20.0 | ug/L | 18.7 | 93.5 | 69.7 - 115 | | 9/20/2023 |
| Chlorobenzene | 20.0 | ug/L | 18.7 | | 88.3 - 111 | | 9/20/2023 |
| | | | | | 111 | | |



Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Groundwater

Matrix:

Volatile Organics

| | Spike | Spike | LCS | LCS % | % Rec | LCS | Date |
|---------------------------|-------|-------|--------|----------|------------|----------|-----------|
| Analyte | Added | Units | Result | Recovery | Limits | Outliers | Analyzed |
| Chloroethane | 20.0 | T/an | 18.6 | 93.0 | 70.6 - 119 | | 9/20/2023 |
| Chloroform | 20.0 | ug/L | 18.7 | 93.3 | 77.1 - 112 | | 9/20/2023 |
| Chloromethane | 20.0 | ug/L | 15.2 | 76.2 | 57.6 - 111 | | 9/20/2023 |
| cis-1,3-Dichloropropene | 20.0 | ug/L | 19.9 | 99.7 | 79.2 - 106 | | 9/20/2023 |
| Dibromochloromethane | 20.0 | ug/L | 19.6 | 98.1 | 75.6 - 111 | | 9/20/2023 |
| Ethylbenzene | 20.0 | ug/L | 18.9 | 94.5 | 82.7 - 108 | | 9/20/2023 |
| Methylene chloride | 20.0 | ug/L | 19.4 | 96.9 | 64.4 - 128 | | 9/20/2023 |
| Tetrachloroethene | 20.0 | ug/L | 18.4 | 92.2 | 74.7 - 113 | | 9/20/2023 |
| Toluene | 20.0 | ug/L | 19.9 | 99.5 | 81.3 - 111 | | 9/20/2023 |
| trans-1,2-Dichloroethene | 20.0 | ug/L | 18.9 | 94.7 | 75.9 - 112 | | 9/20/2023 |
| trans-1,3-Dichloropropene | 20.0 | ug/L | 19.5 | 97.3 | 75.7 - 108 | | 9/20/2023 |
| Trichloroethene | 20.0 | ug/L | 19.9 | 99.6 | 82.4 - 113 | | 9/20/2023 |
| Trichlorofluoromethane | 20.0 | ug/L | 18.8 | 93.8 | 69.8 - 118 | | 9/20/2023 |
| Vinyl chloride | 20.0 | ug/L | 17.8 | 89.0 | 63 - 120 | | 9/20/2023 |
| | | | | | | | |

compliance with the sample condition requirements upon receipt. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including



Client: Inventum Engineering, P.C.

Project Reference: Breeze Water Testing

Lab Project ID: 234271

Groundwater

Matrix:

Volatile Organics

Analyte Added Spike Spike Units Result **LCS** Recovery LCS % Limits % Rec **Outliers** LCS **Analyzed** Date

Method Reference(s): EPA 8260C

Data File: z19661.D CC Number: LCS 1

QC Batch ID:

voaw230920

compliance with the sample condition requirements upon receipt. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including

Report Prepared Monday, September 25, 2023



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "H" = Denotes a parameter analyzed outside of holding time.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

| REPORT TO WANTE AND ME CONTROL SAME 23 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Turnaround Time Report Supplements Availability contingent upon lab approval; additional fees may apply. Standard 5 day Mone Required Mone Required 10 day Basic EDD Rush 3 day Category A Standard Mone Required Other Other Masse indicate package needed: Differ EDD Disase indicate date needed: Differ EDD Disase indicate EDD | DATE COLLECTED COLLECTED COLLECTED OF R R R R R R R R R R R R R R R R R R | S S S |
|--|--|---|---|
| OL-OII AR-AII PARADIGM LAB SAMPLE NUMBER NUMBER | Sampled By Received @ Lab By By signing this form, client agrees to Para | AG-Aqueous Liquid WG-Groundwater NG-Non-Aqueous Liquid NG-Non-Aqueous | REPORT TO: INVOICE TO: COMPANY: FANTUM FAVGINGER INVOICE TO: address: 44 0.48 U.S.L.E. D.P. ADDRESS: CITY: STATE: ZIP: PHONE: 585-734-8235 PHONE: FAX: Matrix Codes: INVOICE TO: COMPANY: SAME COMPANY: SAME ADDRESS: PHONE: 585-734-8235 PHONE: FAX: |
| 203.8 | | PARADIGM LAB SAMPLE NUMBER NUMBER | on " a |
| Page 62 of 64 | | | |

See additional page for sample conditions.

2012



Chain of Custody Supplement

| Client: | Inventum | Completed by: | 2F |
|---|---------------------------------------|---|---------------------|
| Lab Project ID: | 234271 | Date: | 9/ 18 /23 |
| | Per NELAC/ELAI | ition Requirements P 210/241/242/243/244 | |
| Condition | NELAC compliance with the samp Yes | ole condition requirements upo No | on receipt N/A |
| Container Type | | | 10/11 |
| Comments | | | |
| Transferred to method- compliant container | | | -06 |
| Headspace (<1 mL) Comments | pressure filtered all | Coul | |
| | acid washed glass | Ci Cu r | 10 ugh a 0.7 um |
| Preservation | 3,-04,-05 \ X -01 YOA NH3 | VO.A Ammonia | SUDCA |
| Comments | transferred UDAs to | a preserved vi | al after Piltration |
| Chlorine Absent (<0.10 ppm per test strip) Comments | | | |
| | | | |
| Holding Time Comments | | | |
| commence | | | |
| 'emperature | | \Rightarrow | |
| Comments | jū | PC | |
| ompliant Sample Quantity/T | уре | | |
| Comments | / \ | | |
| | | | |

10 ∞ Sample Condition: Per NELAC/ELAP 210/241/242/243/244 PROJECT NAME/SITE NAME: Comments: Comments. **LAB USE ONLY BELOW THIS LINE** DATE PARADIGM 5 Receipt Parameter 88 Container Type: Holding Time: Preservation: Temperature TIME 5 2307 (So) (Chaine, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311 00 Z Z O C ATTN: COMMENTS: PHONE: COMPANY: ADDRESS: ឍ⊳៧០ 12000 120 - 06 - 06 1 × 300 × 3 REPRESION BISONS Bresidest-02-09152023 A. 2022/184-05-08 153018 Breeze 1 - 03 - 09 1 52023 Drestest -01-09132033 < NELAC Compliance Please email results to reporting@paradigmenv.com Reporting Paradigm Environmental SAMPLE LOCATION/FIELD ID REPORT TO: z z STATE: CHAIN OF CUSTODY Received @ Lab By Sampled By Received By Religiquished ZIP: Client ATTN: : SNOH CITY: ADDRESS: COMPANY: REQUESTED ANALYSIS Accounts Payable Same INVOICE TO: Date/Time Date/Time Daté/Time Date/Time STATE: ZIP: 200 Date Due: TURNAROUND TIME: (WORKING DAYS) LAB PROJECT #: REMARKS P.I.F. Š SE SE Total Cost ELAP ID: 1 CLIENT PROJEC PARADIGM LAB SAMPLE NUMBER