2021

PERIODIC REVIEW REPORT

For

DOWCRAFT, SOUTH DOW STREET NYSDEC SITE #907020 Falconer, Chautauqua County, New York

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NOVEMBER 2021

Periodic Review Report Dowcraft, South Dow Street Site

| <u>EXE</u> | CUTIVE SUMMARY | 1 |
|------------|--|----|
| <u>1</u> | SITE OVERVIEW | 2 |
| 11 | SITE DESCRIPTION | 2 |
| 1.1 | GEOLOGY AND HYDROCEOLOGY | 2 |
| 13 | NATURE AND EXTENT OF CONTAMINATION | 2 |
| 1.4 | SITE HISTORY | 3 |
| <u>2</u> | MONITORING PLAN COMPLIANCE REPORT | 5 |
| <u>3</u> | REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS | 7 |
| <u>4</u> | IC/EC PLAN COMPLIANCE REPORT | 9 |
| 4.1 | IC/EC REQUIREMENTS AND COMPLIANCE | 9 |
| 4.1.1 | INSTITUTIONAL CONTROLS | 9 |
| 4.1.2 | Engineering Controls | 9 |
| 4.2 | IC/EC CERTIFICATION | 11 |
| <u>5</u> | OPERATION AND MAINTENANCE PLAN COMPLIANCE | 12 |
| 5.1 | GROUNDWATER MONITORING WELLS | 12 |
| 5.2 | SOIL VAPOR MITIGATION SYSTEMS | 12 |
| 5.2.1 | MONTHLY MONITORING | 12 |
| 5.2.2 | ANNUAL INSPECTION | 12 |
| <u>6</u> | CONCLUSIONS AND RECOMMENDATIONS | 14 |

FIGURES

| FIGURE 1 | HISTORIC AND EXISTING SITE FEATURES |
|----------|---------------------------------------|
| Figure 2 | Trichloroethylene Concentrations |
| Figure 3 | CIS-1,2-DICHLOROETHENE CONCENTRATIONS |
| FIGURE 4 | Vinyl Chloride Concentrations |
| FIGURE 5 | ISCR TREATMENT PLAN |

TABLES

| TABLE 1 | July 2013 Groundwater Analytical Results |
|---------|---|
| TABLE 2 | Pre and Post Treatment Groundwater Analytical Results |

APPENDICES

| Appendix A | LABORATORY ANALYTICAL RESULTS AND DUSR |
|------------|---|
| Appendix B | GROUNDWATER USE CERTIFICATION |
| Appendix C | Institutional and Engineering Controls Certification Form |
| Appendix D | Operation, Maintenance and Monitoring Work Plan |
| Appendix E | SSDS Inspection Reports |
| Appendix F | Pre-Treatment Investigation Results |

ACRONYM LIST

| C&S | C&S Engineers, Inc. |
|--------|---|
| DCE | cis-1,2-dichloroethene |
| JCC | JAMESTOWN CONTAINER COMPANIES |
| Site | Former Dowcraft Facility |
| FID | FLAME IONIZATION DETECTOR |
| TCE | TRICHLOROETHYLENE |
| IRM | INTERIM REMEDIAL MEASURES |
| MIP | Membrane Interface Probe |
| NYSDEC | New York State Department of Environmental Conservation |
| ROD | Record of Decision |
| CRA | CONESTOGA-ROVERS & ASSOCIATES |
| RI | Remedial Investigation |
| PID | Photo Ionization Detector |
| SCO | Soil Cleanup Objectives |
| SVOC | Semi-volatile Organic Compounds |
| VOC | VOLATILE ORGANIC COMPOUNDS |
| SVI | Soil Vapor Intrusion |
| XSD | HALOGEN SPECIFIC DETECTOR |

EXECUTIVE SUMMARY

C&S Engineers, Inc. (C&S) has prepared the 2021 Periodic Review Report for the former Dowcraft, South Dow Street Site (NYSDEC Site No. 907020) located at 65 South Dow Street in Falconer, New York. From 1939 to 1999, the Site manufactured steel partitions. As part of this manufacturing process, a vapor degreaser was used which included the use of chemicals such as trichloroethylene (TCE).

Previous environmental investigations have detected a TCE plume in the area of the former Dowcraft, South Dow Street Site. TCE contamination is located within two sand/gravel layers separated by a silt/clay lens. According to previous environmental reports, the area of former degreaser pit (area of groundwater monitoring wells PW-3 and PW-3R) is a likely source area for the TCE plume. The plume originates from the degreaser area and has affected groundwater in the upper and lower sand/gravel layers. The plume extends from the degreaser area to the north, under the JCC building and up to the area of the Chadakoin River. This is an area of approximately one acre. The rate of movement is approximately 2 to 3 feet per year to the north. Sampling in the River has not shown any impact to date.

The 2003 Record of Decision of the Site selected in-situ chemical dechlorination using potassium permanganate as the approved remedy. Nine in-situ treatment events occurred between May 2000 and July 2006. In 2014, C&S completed another treatment on the Site. Ten injection borings were advanced throughout the TCE plume and a potassium permanganate treatment fence was installed adjacent to the source area by PW-3R.

Post-treatment groundwater monitoring indicates that the latest treatment was successful in the dechlorination of TCE; however, the affect of the treatments seems to be lessening. Out of eleven monitoring wells, seven wells show a decrease in TCE and other chlorinated compounds, and two of these monitoring wells show a decrease of 80% or greater. Some wells show an increase of daughter compounds, this suggests that the dechlorination process is breaking TCE into its daughter compounds.

The Site is compliant with all institutional and engineering controls. The Institutional and Engineering Controls Certification form is provided in **Appendix C**.

1 <u>SITE OVERVIEW</u>

1.1 Site Description

The Dowcraft, South Dow Street Site is located at 65 South Dow Street in Falconer, New York and occupies approximately 2.2 acres of land situated immediately east of South Dow Street and approximately 100 feet south of the Chadakoin River (Site). The Jamestown Container manufacturing building is situated between the Site and the Chadakoin River.

1.2 Geology and Hydrogeology

Site geology consists of fill material overlying two sand/gravel layers separated by a silt/clay lens. Fill material consists of a mixed matrix of sand, cinders, silt, gavel, brick, concrete, coal, slag and metal. The fill unit ranges in thickness from 2 to over 14 feet, with an average thickness of 8 feet.

Under the fill, the upper sand/gravel layer ranges from 10 to 20 feet in thickness. Underlying the upper sand/gravel layer is a silt/clay lens that ranges from 4 to 8 feet in thickness. The lower sand/gravel layer is 10 to 18 feet thick. Underlying the lower sand layer is a second silt/clay layer that starts approximately 43 feet below ground surface (BGS). This unit is estimated to be 60 feet in thickness according to regional geology.

The average depth to groundwater is 10 feet BGS within the upper sand/gravel layer. Groundwater flow within the upper sand/gravel layer is to the north-northeast at approximately 2.7 feet per year.

1.3 Nature and Extent of Contamination

The chemicals of concern (COC) of the Site are trichloroethylene (TCE) and its daughter compounds (cis-1,2-dichloroethene –DCE - and vinyl chloride). According to previous environmental reports, the area of former degreaser pit (area of groundwater monitoring wells PW-3 and PW-3R) is a likely source area for the COC plume. The plume originates from the degreaser area and has affected groundwater in the upper and lower sand/gravel layers. The plume extends from the degreaser area to the north, under the JCC building and up to the area of the Chadakoin River. This is an area of approximately one acre. Sampling in the River has not shown any impact to date.

Total volatile organic compound (VOC) concentrations range between 4.2 to 3,446 ug/L. The volume of the COC plume extends from the degreaser pits to the southern façade of the JCC building (approximate area of 5,000 square feet), then vertically down to the base of the second sand/gravel layer (43 feet BGS); a total volume of approximately 8,333 cubic yards of groundwater and subsurface soil.

Table 1 presents the 2013 baseline groundwater monitoring data.**Table 2**presents data for the pre-treatment and post-treatment groundwater monitoring

events. Another groundwater monitoring event was conducted on June 2019. Sampling data will be submitted as a separate report to the NYSDEC.

1.4 Site History

The property was first developed in 1890 as a woolen mill until 1939 when it was converted into a factory which manufactured steel partitions used for offices. In 1986 the deed was transferred to the Dowcraft Corporation. Manufacturing activities continued until the facility closed in 1999. As part of this manufacturing process, a vapor degreaser was used which included the use of chemicals such as trichloroethylene (TCE). This work continued until 1999 when the facility was closed, a portion of the Site was demolished, and the property was sold to JCC.

Figure 1 presents present and historic site features.

The Dowcraft, South Dow Street Site was the subject of environmental investigations in the early 1990s, at which time contaminated groundwater was discovered on site. An interim remedial measure (IRM) was subsequently put in place in 1994 which consisted of groundwater extraction and treatment. In 2000, the use of additional groundwater remediation technologies was approved by the NYSDEC which involved in-situ chemical oxidation of TCE through the injection of potassium permanganate into the overburden groundwater. In 2003, a Record of Decision (ROD) was approved that selected the following remedy:

- In-situ groundwater treatment through chemical oxidation, by injection of potassium permanganate dissolved in water through existing well points into the shallow overburden groundwater table;
- Overburden groundwater monitoring to verify the effectiveness of the treatment;
- Institutional controls to prevent the use of groundwater as a source of potable water; and
- Annual certification to NYSDEC to certify that institutional controls remain in place.

Conestoga-Rovers & Associates (CRA) conducted nine injection treatments between May 2000 and July 2006, totaling 21,500 pounds of potassium permanganate. These injection treatments were successful in oxidizing TCE in outer plume area; however, the concentrations of TCE in the source area remain high.

2014 and 2015 In-situ Remedial Activities

In May 2013, C&S was asked to re-evaluate the environmental conditions of the Site. On July 2013, baseline groundwater monitoring was conducted to determine the changes, if any, in TCE concentrations since 2006. Based on the findings of this work, a Corrective Measures Work Plan was submitted to the NYSDEC on May 2, 2014. C&S proposed additional in-situ chemical oxidation (ISCO) injections and the installation of a potassium permanganate treatment fence. This work was conducted on December 1 through 9, 2014.

Ten borings were each injected with approximately 33 gallons ISCO solution containing approximately 400 pounds of ISCO material. As the solution was pumped into the subsurface, the drill rods were lifted at a rate designed to inject a consistent amount of materials between 5 and 30 feet below grade. A total of 4,024.12 pounds of potassium permanganate was injected into the TCE plume.

Within the lower sand/gravel layer, the area adjacent to PW-3R contains the highest concentrations of TCE. To address these concentrations, a treatment fence was installed to reduce source loading into downgradient groundwater zones. The treatment fence consisted of 1.5 foot long tubes of paraffin wax mixed with potassium permanganate installed in selected monitoring wells and in the subsurface. A 36-foot treatment fence was installed next to the northwest corner of the building. A total of ten borings to 40 feet below grade were drilled to facilitate the installation of the treatment fence. A potassium permanganate cylinder was dropped down the drill casing. Four feet of casing was removed allowing the bore hole to collapse and another cylinder was placed in series until a total of 5 cylinders were installed (a vertical treatment thickness of approximately 7.5 feet in each boring).

2021 Pre-Treatment Investigation

Parrat-Wolff, Inc. advanced a membrane interface probe (MIP) in 10 borings to 40 feet. The MIP is an in-situ logging tool that measures the relative concentration of volatile organic compounds with depth in soil and groundwater. The MIP probe is advanced at a rate of 1 foot per minute. The MIP probe continuously logs data from several sensors including: photo ionization detector (PID); flame ionization detector (FID); halogen specific detector (XSD) and a sensor for measuring electrical conductivity. The location of the 10 MIP borings is presented in **Figure 5**.

Many locations contained indications of TCE right above confining layers at about 20 – 25 feet bgs; in most instances the sensors indicated that TCE contamination diminished at approximately 30 feet bgs. The source area around PW-3R was an exception. High levels of contamination were observed around 30 feet bgs and continued past our 40 foot limit.

Four soil samples were collected from selected MIP borings to correlate the millivolt spikes to ug/kg. Samples were analyzed for VOCs only. MIHPT-1 (adjacent to the JCC Building 5) collected at 17.5 feet bgs contained TCE at 1,800 ug/kg and DCE at 1,300 ug/kg. MIHPT-3 (western edge of the plume) was collected at 22 – 26 feet and contained TCE at 2,500 ug/kg, DCE at 1,300 ug/kg and vinyl chloride at 7.6 ug/kg. MIHPT-4 (adjacent to PW-3R)was collected from 31 – 34 feet and contained TCE at 130,000 ug/kg and DCE at 4,400 ug/kg. MIHPT-9 (adjacent to ESI-6) was collected from 24 – 28 feet bgs and contained TCE at 88 ug/kg and DCE at 5,700 ug/kg. MIP data, plume model and laboratory data report is provided in **Appendix F**.

2 MONITORING PLAN COMPLIANCE REPORT

The monitoring plan developed by C&S for the Site includes both chemical and hydraulic monitoring of groundwater before and after treatment semi-annually for two years (sampling frequency was changed in the 2018 Operation, Monitoring and Maintenance Plan). Baseline groundwater monitoring was performed on July 2, 2013 and the chemical data is provided in **Table 1**. The following monitoring wells are included in the groundwater monitoring plan:

| ESI - 1 | ESI - 11 |
|----------|----------|
| ESI - 2 | ESI - 12 |
| ESI - 3 | ESI -13R |
| ESI - 6 | PW - 1 |
| ESI - 7 | PW - 3R |
| ESI - 10 | |

The groundwater monitoring activities included the collection of depth-to-water measurements at each monitoring well and the collection of groundwater samples for laboratory analysis. Pre-treatment sampling was conducted on October 21, 22 and 29, 2014 and post-treatment sampling was conducted on:

| April 21 and 22, 2015 | 1 st Post-treatment |
|-------------------------|--|
| November 2 and 3, 2015 | 2 nd Post-treatment |
| April 25 and 26, 2016 | 3 rd Post-treatment |
| October 20 and 21, 2016 | 4 th Post-treatment |
| June 7 and 8, 2017 | 5 th Post-treatment |
| May 7 and 8, 2018 | 6 th Post-treatment (1 st Annual Sample Event under new OM&M) |
| June 25 and 25, 2019 | 7 th Post-treatment (2 nd Annual Sample Event under new OM&M) |

| July 15 and 16, 2020 | 8 th Post-treatment (3 rd Annual Sample Event under new OM&M) |
|-------------------------|--|
| October 26 and 27, 2021 | 9 th Post-treatment (4 th Annual Sample Event under new OM&M) |

Groundwater sampling was conducted in accordance with the U.S. Environmental Protection Agency Low flow sample procedure.

3 <u>REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS</u>

Contaminant concentrations appeared to have deceased, although some increases were also observed. The table below presents a comparison of total VOC concentrations from each monitoring well and the percent change from pretreatment and post-treatment groundwater monitoring.

| Monitoring Well | Total VOC Concentration (ug/L) | | Percent Change |
|-----------------|--------------------------------|----------------|-------------------|
| | Pre-Treatment | Post-Treatment | |
| | October 2014 | October 2021 | |
| PW-1 | 16.9 | 4.4 | -73.96% |
| PW-3R | 2,609.3 | 7,667.1 | +193.84% |
| ESI-1 | 8.9 | 10.7 | +20.22% |
| ESI-2 | 816.08 | 384.55 | -52.88% |
| ESI-3 | 4.8 | 6.16 | +28.33% |
| ESI-6 | 575.22 | 8.53 | -98.52% |
| ESI-7 | 208.39 | 21.2 | -89.83% |
| ESI-10 | 352.11 | 4.36 | -98.76% |
| ESI-11 | 157 | 10.48 | -93.32% |
| ESI-12 | 221.48 | 9.56 | -95.68% |
| ESI-13R | 40 | 15 | -62.50% |

CHANGE IN VOC CONCENTRATION 2014-2021

Out of eleven monitoring wells, seven wells show significant decreases, over 40%, in TCE and other chlorinated compounds from the first initial sampling event in 2014. Only four wells showed an increase in total VOC concentrations from the previous sampling event in 2020. Wells inside the JCC building (ESI-10, ESI-11 and ESI-12) showed a continuation of non-detect for TCE. PW-3R shows an increase in TCE, DCE and vinyl chloride from the July 2020 sampling event.

Aside from PW-3R, none of the wells showed significant rebounds of chlorinated compounds from the December 2014 treatment event. PW-3R is the source area of the TCE plume and recent sampling indicates that PW-3R still contains significant TCE contamination. Next year the source area will be targeted for treatment using in situ chemical reduction (ISCR) methods. ESI-2 still contains elevated levels of TCE and daughter compounds; however, these concentrations have significantly declined from the previous sample event. Overall, the source area has increased in concentrations of TCE and DCE; however, the remaining monitoring wells within the contaminate plume have deduced concentrations or remained stable. TCE and its daughter compounds seem to be slowly degrading in the outer plume area.

Historic concentrations of TCE and its daughter compounds from October 2005 to October 2021 are presented on **Figures 2, 3, and 4**. Laboratory analytical results and Data Usability Summary Report (DUSR) are provided in **Appendix A**.

4 IC/EC PLAN COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

As stated in the 2003 ROD, the remedial goals selected for this Site are:

- Treat the source area of groundwater contamination by oxidation dechlorination of the contaminants in place;
- Prevent exposure of human receptors to contaminated groundwater in the sand and gravel unit under Site;
- Prevent or mitigate, to the maximum extent practicable, COC migration via groundwater so that releases from the underlying sand and gravel unit to the Chadakoin River do not exceed applicable standards, criteria and guidance.

4.1.1 Institutional Controls

The institutional controls for this Site are:

- Groundwater Use Restriction
- Land Use Restriction
- Monitoring Plan
- Operation and Monitoring Plan

The Site has not changed owners and the land use of the Site has not change. A signed certification that groundwater is not utilized is provided by the property owner in **Appendix B**.

4.1.2 Engineering Controls

As specified under the Engineering Control Provision, any future development on the Site will include provisions for soil gas controls, or an assessment demonstrating that such controls are not needed.

The soil vapor intrusion (SVI) work plan, submitted on February 20, 2015, targeted areas in the main JCC building and one smaller out building to determine if TCE and other chlorinated compounds in the groundwater have impacted the soil vapor and indoor air quality.

The main JCC building is a linear building that begins at South Dow Street and extends approximately 1,060 feet to the northeast. The main building consists of multiple interconnected buildings that have been added throughout its history. The main building consists of the following portions, starting from South Dow Street:

- Four-story brick building, 55 feet long by 100 feet wide;
- Two-story brick building 300, feet long by 50 feet wide;
- One-story brick building 380, feet long by 80 feet wide; and

• One-story steel building 325, feet long by 100 feet wide.

A second, one-story concrete block building (220 feet long by 50 feet wide), referred by JCC as Building #9, is south of the main building. Building #9 is used for manufacturing.

Building #9 SSD System

Two multi-suction point SSD systems were installed by Mitigation Tech using principles and equipment typically used for soil vapor intrusion mitigation in buildings in compliance with the NYSDOH document, "Guidance for Evaluation Soil Vapor Intrusion in the State of New York, October 2006."

The building was assessed by confirmatory sub-slab air communication testing at the job start to refine data obtained from the preliminary building assessment. The system, comprised of two fans, suction cavities, and other SSD system components, was constructed on March 21 through 27, 2017. Vacuum and air flow measurements were performed continuously during construction to ensure design integrity.

A detailed description of the SSDS components are provided in **Appendix D**.

Building #5 and #6 SSD System

Mitigation Tech installed five single suction point SSD systems using principles and equipment typically used for soil vapor intrusion mitigation in buildings in compliance with the NYSDOH document, "Guidance for Evaluation Soil Vapor Intrusion in the State of New York, October 2006."

The building was assessed by extensive sub-slab air communication testing at job start to refine data obtained from the preliminary building assessment. Due to a system of sub-slab structural arches and crisscrossing grade beams, sub-slab spaces were either inaccessible or difficult to access. In the case of Building 5, extensive backfilling has occurred such that the soil is present immediately below the floor in the central and northernmost portions of the foundation. The southernmost portion is an open crawlspace with a dirt floor. Mitigation Tech determined that active ventilation of the southernmost sub-slab compartment bounded by buildings 4 and 6A would constitute a zone of defense to intercept soil vapor migrating from the south which would also create some limited depressurization north of the first grade beam. In the case of Building 6, the sub-space is in essence a crawlspace so ventilation was determined the most appropriate strategy to divert vapors from the building interior.

A detailed description of the SSDS components are provided in **Appendix D**.

4.2 IC/EC Certification

As required, the Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certificate Form has been completed and a copy is provided in **Appendix C**.

5 OPERATION AND MAINTENANCE PLAN COMPLIANCE

An updated Operation, Maintenance and Monitoring (OM&M) Work Plan was approved by the NYSDEC in March 2018. The updated Work Plan includes monitoring the natural attenuation of the groundwater contamination and periodic inspection of two soil vapor mitigation systems over five years. The Remedial Action Monitoring Program consists of monitoring Site groundwater on an annual basis and the performance of the SSDS on a monthly and annual basis.

Appendix D provides the approved OM&M Work Plan

5.1 Groundwater Monitoring Wells

The following maintenance items were identified:

• No maintenance items were identified at this time.

5.2 Soil Vapor Mitigation Systems

5.2.1 Monthly Monitoring

Monthly monitoring will be conducted as follows:

- Inspect fan vacuum indicator to verify that the value indicated by a mark on the gauge has not changed significantly from the position of the mark. The gauge is inspected by observing the level of colored fluid.
- Record the observed measurement for each fan vacuum indicator on form labeled "SSD System Vacuum Gauge Record". Store all forms in the facility maintenance office.
- Inspect visible components of SSD system for degraded condition.

5.2.2 Annual Inspection

Annual inspection will be conducted as follows:

- Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices, labeling).
- Inspect all components for condition and proper operation.
- Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYS DOH VI Guidance (i.e., with the systems running, use smoke sticks to check for leaks through concrete cracks, floor joints and at the suction points; any leaks will be resealed until smoke is no longer observed flowing through the opening).

- Inspect the exhaust or discharge point of each exhaust fan to verify that no air intakes have been located within 10 feet.
- Conduct pressure field extension testing to ensure that the system is maintaining a vacuum beneath the entire slab. Perform a differential pressure reading at least one vacuum test point.
- Interview appropriate building occupants seeking comments and observations regarding the operation of the system.
- Confirm that the circuit breakers controlling the circuits on which the soil vapor vent fans operate are labeled "Soil Vapor System."

5.2.2.1 SSDS Inspection

On November 22, 2021, Mitigation Tech performed a complete inspection of all system components. Please note that this inspection was delayed and took place outside the certification period due to Mitigation Tech personnel contracting COVID-19. Mitigation Tech certifies both systems are effectively maintaining sub-slab depressurization.

A broken gauge in Building 9 was replaced prior to the official inspection.

Test points showed a decline from previous measurements and in some cases a positive pressure differential, attributed to seasonal change of measurement timing and large unsealed openings on north side of foundation. Plant manager subsequently had openings sealed. Mitigation Tech recommends subsequent testing during the heating season.

Mitigation Tech's inspection reports are provided in **Appendix E**.

6 **CONCLUSIONS AND RECOMMENDATIONS**

Based upon the remedial activates performed, the following conclusions have been formulated:

- All of the required work was completed and is reported herein.
- The remedial activities performed at the Site have prevented any adverse • risk to human health and the environment.
- The groundwater flow configuration beneath the Site is stable and remains • consistent with the historically identified trends. The groundwater flow is to the north and discharges into the Chadakoin River.
- Sampling suggests the effectiveness of potassium permanganate injections and cylinders may be waning at treating the groundwater contaminants in many well.
- The SVI systems comprised of a SSD system for Building 9 and a SSD system • and CVS for Buildings 5 and 6 were properly installed and verified for effectiveness. However, due to recent repair, Mitigation Tech recommends follow-up pressure testing within the 2021 – 2022 heating season. The primary objective of implementing these systems was to mitigate potential intrusion of soil vapors.

In addition to the groundwater monitoring under the OM&M Plan and PRR, C&S investigated remedial options in order to reduce CVOC concentrations around PW-3R. ESI-2 and ESI-10. Various remedial methods were evaluated based on their logistic and financial feasibility. On March 20, 2020 the NYSDEC approved C&S's Work Plan to further investigate the Site prior to the next injection event. Figure 5 presents the treatment plan based on the results of the pre-treatment investigation.

| Anticipated Date | Milestone |
|----------------------|--|
| Early February 2020 | Remedial Action Work Plan Submission (Completed) |
| Late March 2020 | Work Plan Approved (Completed) |
| Early January 2021 | Pre-treatment Investigation (Completed) |
| Late April 2022 | ERD/ISCR Treatment |
| Late July 2022 | Post-treatment Groundwater Monitoring |
| Mid August 2022 | Injection/Groundwater Monitoring Report Submission |
| Early September 2022 | Discuss Injection/Groundwater Monitoring Report with DEC |
| Late November 2022 | Periodic Review Report Submission |
| Late December 2022 | Periodic Review Report Acceptance by DEC |

Below is an anticipated schedule of milestones for the remediation of the Site.

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FIGURES



ADD.GIS



ProjectIN30 - Jamestown Container/CADD\Sheet Files/FIGURE 2 TRICLOROETHYLENE CONCENTRA

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ject/N30 - Jamestown Container\CADD\Sheet Files\FIGURE 4 VINYL CHLORIDE CONCENTRATIONS

pwb





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| nental Remedial Investigation Figure 5.1: Sample Locations, 2001. by Golder Associates Inc. December ed from Golder and presented on this | А |
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| | C&S Engineers, Inc. 141 Elm Street. Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454 www.cscos.com |
|---|--|
| • | ' FACILITY AEDIATION RK |
| 8 | FORMER DOWCRAFT GROUNDWATER REN FALCONER, NEW YOI |
| • | MARK DATE DESCRIPTION REVISIONS PROJECT NO: N30.001.001 DATE: MARCH 1, 2021 DRAWN BY: C. MARTIN DESIGNED BY: C. MARTIN CHECKED BY: NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW |
| | ISCR TREATMENT PLAN |
| | FIGURE 5 |

TABLES

TABLE 1: JULY 2013 GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC CONMPOUNDS FORMER DOWCRAFT FACILITY

| Sample Location | NYSDEC | ESI - 1 | ESI - 2 | ESI - 3 | ESI - 6 | ESI - 7 | ESI - 10 | ESI - 11 | ESI - 12 | ESI - 13R | PW - 1 | PW - 3R |
|--------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|
| Sample Date | Standards & | 2-Jul-13 | 2-Jul-13 | 2-Jul-13 |
| Matrix | Guidance | Water | Water | Water |
| Units | Values | ug/L | ug/l | ug/l |
| Contaminant | | | | | | | | | | | | |
| Volatile Organic Com | pounds | | | | | | | | | | | |
| Acetone | 50 | <10.0 | <10.0 | <10.0 | | <10.0 | <10.0 | <10.0 | | | | 13 |
| Benzene | 1 | < 0.70 | < 0.70 | < 0.70 | | < 0.70 | < 0.70 | < 0.70 | | | | 0.88 J |
| Carbon disulfide | N/S | <2.0 | 1.3 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 5.0 |
| 1,1-Dichloroethane | 5 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 5.5 |
| 1,2-Dichloroethane | 0.6 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 1.2 |
| 1,1-Dichloroethene | 5 | <2.0 | 2.8 | <2.0 | 1.6 | <2.0 | 0.34 J | <2.0 | | | | 48 |
| cis-1,2-Dichloroethene | 5 | 1.1 | 1,900 | <2.0 | 230 | 1.9 | 160 | 39 | 48 | 2.7 | 2.7 | 27,000 DL |
| trans-1,2-Dichloroethene | 5 | <2.0 | 13 | <2.0 | 1.2 | <2.0 | 1.6 | <2.0 | | | | 500 E |
| 1,2-Dichloropropane | 1 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 2.2 |
| Ethylbenzene | 5 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 0.77 J |
| Methylene Chloride | 5 | <5.0 | <5.0 | <5.0 | | <5.0 | <5.0 | <5.0 | | | | 1.3 |
| 4-Methyl-2-pentanone | N/S | <5.0 | <5.0 | <5.0 | | <5.0 | <5.0 | <5.0 | | | | 2.6 J |
| Tetrachloroethene | 5 | <2.0 | 0.55 J | <2.0 | 0.88 J | <2.0 | <2.0 | <2.0 | | | | 18 |
| 1,1,2-Trichloroethane | 1 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 2.8 |
| Trichloroethene | 5 | 8.2 | 98 | 6.3 | 230 | 21 | 18 | 4.2 | 92 | 8.9 | 11 | 97000 DL |
| Toluene | 5 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 18 |
| Vinyl chloride | 2 | <2.0 | 800 | <2.0 | 73 | <2.0 | 11 | 75 | | | | 6300 DL |
| Xylene (total) | 5 | <2.0 | <2.0 | <2.0 | | <2.0 | <2.0 | <2.0 | | | | 4.8 |
| Total VOCs | | 9.3 | 2815.65 | 6.3 | 536.68 | 22.9 | 190.94 | 118.2 | 140 | 11.6 | 13.7 | 130924 |

Notes

1) Shaded areas indicate concentration exceeds NYSDEC T.O.G.S 1.1.1 Ambient Water Quality Standards

2) < = not detected - below Method Detection Limit.

3) J = The analyte was positively identified but, the number indicates an estimated value. Detected concentration is less than the contract required quanititation limit but is greater than zero.

4) N/S = No Standard

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| | Location ID Sample Matrix Date Sampled Units | ESI-1 WG 12/02/2014 ug/l | ESI-1 WG 04/21/2015 ug/l | ESI-1 WG 11/03/2015 ug/l | ESI-1 WG 04/25/2016 ug/l | ESI-1 WG 10/20/2016 ug/l | ESI-1 WG 06/07/2017 ug/l | ESI-1 WG 05/07/2018 ug/l | ESI-1 WG 06/26/2019 ug/l | ESI-1 WG 07/15/2020 ug/l | ESI-1 WG 10/27/2021 ug/l | ESI-2 WG 12/02/2014 ug/l | ESI-2 WG 04/22/2015 ug/l | ESI-2 WG 11/03/2015 ug/l | ESI-2 WG 04/25/2016 ug/l | ESI-2 WG 10/21/2016 ug/l | ESI-2 WG 06/08/2017 ug/l | ESI-2 WG 05/08/2018 ug/l | ESI-2 WG 06/26/2019 ug/l | ESI-2 WG 07/15/2020 ug/l | ESI-2 WG 10/27/2021 ug/l |
|-------------------------------|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| NYSDEC Groundwa Guidance V | ter Standards & Values | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 ug/l | | U | U - U | U | J U | - U | J – U | U | [| J U | | U – U | - U | U | U | | | U U | U | U |
| 1,1-Dichloroethane | 5.0 ug/l | | U – | U – U | U | J U | - U | J – U | U | (| J U | | U – U | - U | U | - U | | | U U | U | U |
| 1,1-Dichloroethene | 5.0 ug/l | | U – U,* | - U | - U | J U | - 0 | J – U | U | (| J U | 1.1 | – U,* | 12 | U | - U | | | U 3.7 J | U | 0.27 J |
| 1,2-Dichlorobenzene | 3.0 ug/l | | U – | U – U | - U | J U | - U | J – U | U | (| J U | | U – U | - U | U | - U | WELL CAP | | U U | U | U |
| 1,2-Dichloroethane | 0.6 ug/l | | U – | U – U | U | J - U | - U | J – U | U | T | J U | | U – U | - U | U | – U | DAMAGED. | | U U | U | U |
| 1,3-Dichlorobenzene | 3.0 ug/l | | U – | U - U | - U | U U | - U | U – U | U | [| J U | | U – U | - U | U | - U | SAMPLE NOT | | U U | U | U |
| 1,4-Dichlorobenzene | 3.0 ug/l | | U – | U - U | U U | J - U | - U | J – U | U | [| J U | | U – U | - U | U | – U | -COLLCETED | | U U | U | U |
| Bromoform | 50.0 ug/l | | U – | U - U | U U | J - U | - U | J – U | U | [| J U | | U – U | - U | U | – U | | | U U | U | U |
| Dibromochloromethane | 50.0 ug/l | | U – | U - U | U U | J - U | - U | J – U | U | [| J U | | U – U | - U | U | – U | | | U U | U | U |
| Acetone | 50.0 ug/1 | | U – | U - U | - U | U U | - U | U – U | 2.2 J | [| 2.2 J | | U – U | - U | U | - U | | | U U | U | 8.8 |
| Benzene | 1.0 ug/l | | U – | U – U | и — Ц | J U | - U | J – U | U | (| J U | - | U – U | - U | U | – U | | | U - U | U | U |
| Carbon Tetrachloride | 5.0 ug/l | | U – | U – U | и — Ц | J U | - U | J – U | U | (| J U | - 1 | U,* – U | - U | U | – U | | | U - U | U | U |
| Chlorobenzene | 5.0 ug/l | | U – | U - U | U U | J - U | - U | J – U | U | [| J U | | U – U | - U | U | – U | | | U U | U | U |
| Chloroform | 7.0 ug/l | | U – | U - U | - U | J - U | - U | U – U | U | [| J U | | U – U | U | U | – U | | | U U | U | U |
| Cis-1,2-Dichloroethylen | e 5.0 ug/l | | U 4.4 | - U | и — Ц | J U | - U | J – U | 0.73 J | 1.01 | - U | 540 | E 740 | 4400 E | 5290 | 592 | | 480 | 1400 | 1910 | 180 |
| Ethylbenzene | 5.0 ug/l | | U – | U – U | и — Ц | J U | - U | J – U | U | (| J U | | U – U | - U | U | – U | | | U U | U | U |
| Methylene Chloride | 5.0 ug/l | | U – | U – U | и — Ц | J U | - U | J – U | U | (| J U | - | U <mark>7.9</mark> J | - U | U | – U | | | U - U | U | U |
| Tetrachloroethylene (PCI | E) 5.0 ug/l | | U – | U - U | л — U | J U | - U | J – U | U | [| J U | 0.48 | J – U | - U | U | - U | | | U U | U | 0.48 J |
| Toluene | 5.0 ug/l | | U – | U - U | U U | J U | - U | J – U | U | (| J U | | U – U | - U | U | - U | | | U U | U | U |
| Trans-1,2-Dichloroethen | e 5.0 ug/l | | U – | U - U | U U | J U | - U | J – U | U | (| J U | 4.5 | - U | 19 | U | - U | | 27 | 18 J | U | 5 |
| Trichloroethylene (TCE |) 5.0 ug/l | 8.9 | 15 | 12 | 4.89 | 6.52 | 3.68 | 4.4 | 10 | 6.72 | 7.8 | 130 | E 110 | 1100 E | 1260 | 303 | | 450 | 690 | 708 | 190 |
| Vinyl Chloride | 2.0 ug/l | | U – | U - U | U U | J U | - U | J – U | U | [| J U | 130 | E 130 | 320 | 289 | - U | | | U 120 | 20.3 J | U |
| Xylenes | 5.0 ug/l | 1 | U - | U – U | u u | J – U | - U | J – U | U | (| J U | - | U – U | - U | U | - U | | | U U | U | U |
| TOTAL | /OCs | 8.9 | 19.4 | 12 | 4.89 | 6.52 | 3.68 | 4.4 | 12.39 | 7.73 | 10.7 | 816.08 | 988 | 6151 | 6,839 | 895 | | 957 | 2,228.00 | 2.638.3 | 384.55 |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| | Location ID Sample Matrix Date Sampled Units | ESI-3 WG 10/21/2014 ug/l | 04 | ESI-3 WG 22/2015 ug/l | ES W 11/02 uş | 31-3 /G //2015 g/l | ESI-3 WG 04/25/20 ug/l |)16 | ESI-3 WG 10/20/2016 ug/l | 0 | ESI-3 WG 6/07/2017 ug/l | 0 | ESI-3 WG 05/08/2018 ug/l | 06/ | ESI-3 WG /26/2019 ug/l | 07 | ESI-3 WG //15/2020 ug/l | 1 | ESI-3 WG 10/26/2021 ug/l | | ESI- WG 10/29/2 ug/l | 6 014 | 04/ | ESI-6 WG 22/2015 ug/l | ES V 11/02 u | SI-6 VG 2/2015 1g/l | ESI- WC 04/25/2 ug/ | -6 ; 2016 1 | ESI-6 WG 10/21/201 ug/l | 6 | ESI-6 WG 06/08/20 ug/l | 017 | ESI-6 WG 05/08/2018 ug/l | | E 06/2 | SI-6 NG :6/2019 ug/l | E V 07/1 | 31-6 VG 5/2020 1g/l | ESI- WG 10/27/2 ug/ | 6 ; :021 1 |
|--------------------------------|---|-----------------------------------|----|--------------------------------|------------------------|-----------------------------|---------------------------------|-----|-----------------------------------|---|----------------------------------|---|-----------------------------------|-----|---------------------------------|-----|----------------------------------|-----|-----------------------------------|---|-------------------------------|----------|------|--------------------------------|-----------------------|------------------------------|------------------------------|----------------------|----------------------------------|---|---------------------------------|-----|-----------------------------------|---|-----------|-------------------------------|----------------|------------------------------|------------------------------|---------------------|
| NYSDEC Groundwat Guidance V | ter Standards & Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 ug/1 | | U | U | J – | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| 1,1-Dichloroethane | 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U · | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| 1,1-Dichloroethene | 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U · | I | U · | 1 | U | | U | 1.6 | U | | U | 3.9 | | | U | | U | | U | | U | | U | | U | | U |
| 1,2-Dichlorobenzene | 3.0 ug/l | | U | U | J | U | | U | | U | | U | | U · | I | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| 1,2-Dichloroethane | 0.6 ug/l | | U | U | J | U | | U | | U | | U | | U · | I | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| 1,3-Dichlorobenzene | 3.0 ug/l | | U | U | J | U | | U | | U | | U | | U · | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| 1,4-Dichlorobenzene | 3.0 ug/l | | U | U | J | U | | U | | U | | U | | U · | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Bromoform | 50.0 ug/l | | U | U | J - | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | 1.2 | J | 13.2 | | 2.6 | |
| Dibromochloromethane | 50.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | 0.37 | J |
| Acetone | 50.0 ug/l | | U | U | J | U | | U | | U | | U | | U 3 | .4 . | J · | 1 | U ; | 5.5 | | | U | | U | | U | | U | | U | | U | 2.4 | J | 7.7 | | 15.8 | | 4.7 | J |
| Benzene | 1.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Carbon Tetrachloride | 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U,* | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Chlorobenzene | 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Chloroform | 7.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Cis-1,2-Dichloroethylene | e 5.0 ug/l | | U | U | J | U | | U | 1.4 | J | | U | | U - | 1 | U · | 1 | U | | U | 210 | Е | 1100 | | 1000 | Е | 322 | | 626 | | 181 | | 5.3 | | 80 | | | U | | U |
| Ethylbenzene | 5.0 ug/l | | U | U | J - | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Methylene Chloride | 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | 10 | J | | U | | U | | U | | U | | U | | U | | U | | U |
| Tetrachloroethylene (PCE | E) 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | 1.1 | | | U | 5.8 | | | U | | U | | U | 1.4 | | 1.6 | | | U | 0.86 | |
| Toluene | 5.0 ug/l | | U | U | J | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| Trans-1,2-Dichloroethene | e 5.0 ug/l | | U | U | J - | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | 2.2 | | | U | 4 | | | U | 11.1 | J | | U | | U | 1.2 | J | | U | | U |
| Trichloroethylene (TCE) |) 5.0 ug/l | 4.8 | 2. | 5 | 4.8 | | 1.06 | J | 6.99 | | | U | 0.3 | 0 | .8 | 5. | .47 | (| 0.66 | | 200 | Е | 810 | | 1500 | Е | 924 | | 1060 | | 431 | | 40 | | 200 | E | | U | | U |
| Vinyl Chloride | 2.0 ug/l | | U | U | J | U | | U | | U | | U | | U · | 1 | U · | 1 | U | | U | 160 | E | 100 | *,^ | 68 | | 21.7 | | | U | | U | | U | | U | | U | | U |
| Xylenes | 5.0 ug/l | | U | U | J - | U | | U | | U | | U | | U - | 1 | U · | 1 | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U | | U |
| TOTAL V | /OCs | 4.8 | 2. | 5 | 4.8 | | 1.06 | | 8.39 | | | | 0.3 | 4 | .2 | 5. | .47 | e | 6.16 | | 575.22 | | #### | | #### | | ###### | ŧ | ##### | | 612 | | 49.1 | | 204 | | 29 | | 8.53 | |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| | Location ID Sample Matrix Date Sampled Units | ESI-7 WG 10/21/2014 ug/l | ESI- WG 04/21/2 ug/ | 7 015 | ESI-7 WG 11/02/2015 ug/l | ESI- WG 04/25/2 ug/l | 7 ; ;016 | ESI-7 WG 10/20/2016 ug/l | ESI-7 WG 06/08/2017 ug/l | ESI-7 WG 7 05/07/2018 ug/l | *ESI-4* WG 06/26/2019 ug/l * Well ESI-7 was | ESI-7 WG 07/15/2020 ug/l | 0 1 | ESI-7 WG 0/26/2021 ug/l | ES W 10/29 u | I-10 VG 9/2014 g/l | ESI-1 WG 04/21/2015 | 0 ug/l | ESI-10 WG 11/03/2015 ug/l | ESI-10 WG 04/26/201 ug/l | 16 10 | ESI-10 WG /20/2016 ug/l | ESI-1 WG 06/07/20 ug/l | 0 | ESI-10 WG 05/07/2018 ug/l | | ESI-10 WG 06/25/20 ug/l | 0 | ESI-10 WG 07/15/2020 ug/l | 10 | ESI-10 WG //27/2021 ug/l |
|----------------------------------|---|-----------------------------------|------------------------------|----------|-----------------------------------|-------------------------------|--------------------|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------------|-----|----------------------------------|-----------------------|-----------------------------|---------------------------|-----------|------------------------------------|-----------------------------------|-------|----------------------------------|---------------------------------|---|------------------------------------|-----|----------------------------------|---|------------------------------------|-------|-----------------------------------|
| NYSDEC Groundwate Guidance Va | er Standards & alues | | | | | | | | | | paved over, Well ESI-4 was alternitavely | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 ug/l | | U – | U | | U | U | U | | U - 1 | | | U | U | | U | | U | U | U | J – | U | | U | | U | | U | | U · | U |
| 1,1-Dichloroethane | 5.0 ug/l | | U - | U | | U | U | - U | - | U - 1 | U U | | U | U | - | U | | U | U | U | л — | U | | U | | U | | U | | U - | - U |
| 1,1-Dichloroethene | 5.0 ug/l | | U – | U | | U - | U | U | | U - 1 | J – U | - | U | U | 0.61 | J | | U | U | U | J – | U | | U | | U | | U | | U · | U |
| 1,2-Dichlorobenzene | 3.0 ug/l | | U – | U | | U | U | U | - | U – 1 | u - u | an an | U | U | | U | | U | U | U | J – | U | | U | | U | | U | | U - | - U |
| 1,2-Dichloroethane | 0.6 ug/l | | U – | U | | U - | U | U | | U - 1 | J U | | U | U | | U | | U | U | U | - I | U | | U | | U | | U | | U - | - U |
| 1,3-Dichlorobenzene | 3.0 ug/l | | U – | U | | U - | U | U | | U - 1 | J U | | U | U | | U | | U | U | U | - I | U | | U | | U | | U | | U - | - U |
| 1,4-Dichlorobenzene | 3.0 ug/l | | U – | U | | U - | U | U | | U - 1 | J – U | - | U | U | | U | | U | U | U | J – | U | | U | | U | | U | | U · | U |
| Bromoform | 50.0 ug/1 | | U – | U | | U | U | U | - | U – 1 | u - u | an an | U | U | | U | | U | U | U | J – | U | 3.01 | | | U | | U | | U 0.' | 76 J |
| Dibromochloromethane | 50.0 ug/1 | | U – | U | | U - | U | U | | U - 1 | J U | | U | U | | U | | U | U | U | - I | U | | U | | U | | U | | U - | - U |
| Acetone | 50.0 ug/1 | | U – | U | | U - | U | 6.89 J | 10.1 | | J U | | U | 3.2 J | | U | 8.5 | J S | 5.9 J | 7.16 J | 7.11 | J | | U | | U | 9.6 | U | 15 | U 3 | .6 J |
| Benzene | 1.0 ug/l | | U – | U | | U | U | U | - | U – 1 | u - u | an an | U | U | | U | | U | U | U | J – | U | | U | | U | | U | | U - | - U |
| Carbon Tetrachloride | 5.0 ug/l | | U – | U | | U | U | U | | U – 1 | J – U | | U | U | | U | | U | U | U | J - | U | | U | | U | | U | | U . | U |
| Chlorobenzene | 5.0 ug/l | | U – | U | | U - | U | U | | U - 1 | J U | | U | U | | U | | U | U | U | - I | U | | U | | U | | U | | U - | - U |
| Chloroform | 7.0 ug/l | | U – | U | | U - | U | U | | U - 1 | J U | | U | U | | U | | U | U | U | - I | U | | U | | U | | U | | U - | - U |
| Cis-1,2-Dichloroethylene | 5.0 ug/l | 78 | 25 | | 12 | 8.3 | | 25 | 5.15 | 30 | - U | 5.94 | | U | 240 | Е | | U | U | U | J - | U | | U | | U | 61 | U | | U · | U |
| Ethylbenzene | 5.0 ug/l | | U – | U | | U | U | U | | U – 1 | J – U | | U | U | | U | | U | U | U | J - | U | | U | | U | | U | | U · | U |
| Methylene Chloride | 5.0 ug/l | | U – | U | | U | U | U | | U - 1 | U - U | | U | U | | U | | U | U | U | J | U | | U | | U | | U | | U . | U |
| Tetrachloroethylene (PCE) |) 5.0 ug/l | 0.39 | J – | U | | U - | U | U | | U - 1 | J U | | U | U | | U | | U | U | U | - I | U | | U | | U | 0.22 | 1 | | U - | - U |
| Toluene | 5.0 ug/l | | U – | U | | U | U | U | | U – 1 | J – U | | U | U | | U | | U | U | U | J - | U | | U | | U | | U | | U · | U |
| Trans-1,2-Dichloroethene | 5.0 ug/l | | U – | U | | U | U | U | | U – 1 | J – U | | U | U | 2.5 | | | U | U | U | J - | U | | U | | U | 0.8 | 1 | | U · | U |
| Trichloroethylene (TCE) | 5.0 ug/l | 150 | E 78 | | 57 | 43 | | 106 | 21 | 52 | - U | 39.5 | | 18 | 62 | | | U | U | U | J - | U | | U | 0.94 | - 7 | 84 | U | | U · | U |
| Vinyl Chloride | 2.0 ug/l | | U | U | | U | U | U | | U 1 | U U | | U | U | 37 | | | | U | L | J | U | | U | | U | | U | | U . | U |
| Xylenes | 5.0 ug/l | | U - | U | | U | U | U | - | U - 1 | U U | | U | U | | U | | U | U | U | J | U | | U | | U | | U | | U . | U |
| TOTAL VO | OCs | 208.39 | 103 | | 69 | 51.2 | | 137.36 | 36.35 | 82 | | 45.44 | 2 | 21.2 | 352.11 | | 8.5 | 5 | 5.9 | 7.16 | 7.11 | | 3.01 | | 0.94 | | 155.62 | | 15 | 4. | 36 |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| Location ID Sample Matrix Date Sampled Units | ESI-11 WG 10/29/2014 ug/l | ESI-11 WG 04/21/201 ug/l | ESI-11 WG 5 11/03/2015 ug/l | ESI-11 WG 5 04/26/2016 ug/l | ESI-11 WG 10/20/2016 ug/l | ESI-11 WG 06/07/2017 ug/l | ESI-11 WG 05/07/2018 ug/l | ESI-11 WG 06/25/2019 ug/l | ESI-11 WG 07/15/2020 ug/l | ESI-11 WG 10/27/2021 ug/l | ESI-12 WG 10/22/2014 ug/l | ESI-12 WG 04/21/2015 ug/l | ESI-12 WG 11/03/2015 ug/l | ESI-12 WG 04/26/2016 ug/l | ESI-12 WG 10/21/2016 ug/l | ESI-12 WG 06/07/2017 ug/l | ESI-12 WG 05/08/2018 ug/l | ESI-12 WG 06/25/2019 ug/l | ESI-12 WG 07/15/2020 ug/l | ESI-12 WG 10/27/2021 ug/l |
|---|------------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| NYSDEC Groundwater Standards & Guidance Values | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane 5.0 ug/l | | U | U - | U 1 | U U | T | J – U | U | U | U U | – U | - U | U | - U | U | U | U | U | U | U |
| 1,1-Dichloroethane 5.0 ug/l | | U | U - | U 1 | U U | T | J – U | U | U | U U | – U | - U | U | - U | U | U | U | U | U | U |
| 1,1-Dichloroethene 5.0 ug/l | | U | U - | U 1 | U U | T | J – U | U | U | U U | – U | - U | U | - U | U | U | U | U | U | U |
| 1,2-Dichlorobenzene 3.0 ug/l | | U | U | U I | U U | U | J – U | U | U | U U | – U | - U | U | U | U | U | U | U | U | U |
| 1,2-Dichloroethane 0.6 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | U | U |
| 1,3-Dichlorobenzene 3.0 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | U | U |
| 1,4-Dichlorobenzene 3.0 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | U | U |
| Bromoform 50.0 ug/l | | U | U | U I | U U | 4.78 | - U | 2.4 U | 8.77 | 3.1 | – U | - U | U | U | U | 14.50 | U | 2.8 | 6.67 | 3.1 |
| Dibromochloromethane 50.0 ug/l | | U | U – | U 1 | U – U | 1.09 | - U | U | U | 0.38 J | - U | - U | U | - U | U | U | U | - U | U | 0.36 J |
| Acetone 50.0 ug/l | | U 3.9 | J 7 | J 32.4 | - U | - L | 2.6 J | 24 U | 5.64 J | 7 | - U | - U | 5.6 J | 5.9 J | 6.2 J | U | 3 J | 19 | U | 5.6 |
| Benzene 1.0 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | 1.19 | U |
| Carbon Tetrachloride 5.0 ug/l | (| J,* | U - | U 1 | U U | - L | J – U | U | U | U | - U | - U | U | U | U | U | U | U | U | U |
| Chlorobenzene 5.0 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | U | U |
| Chloroform 7.0 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | U | U |
| Cis-1,2-Dichloroethylene 5.0 ug/l | 76 | | U – | U 1 | U – U | - L | J – U | U | U | U | 71 | 1.2 | U | - U | U | U | U | - U | U | U |
| Ethylbenzene 5.0 ug/l | | U | U | U I | U U | U | J – U | U | U | U U | - U | - U | U | U | U | UM | UM | U | U | U |
| Methylene Chloride 5.0 ug/l | | U | U – | U 1 | U – U | - L | J – U | U | U | U | - U | - U | U | - U | U | U | U | - U | U | U |
| Tetrachloroethylene (PCE) 5.0 ug/l | | U | U - | U 1 | U U | T | J – U | U | U | U U | 0.48 J | 0.54 J | U | - U | U | U | U | U | U | U |
| Toluene 5.0 ug/l | | U | U – | U 1 | U U | - L | J – U | U | U | U U | – U | - U | U | - U | U | UM | UM | - U | U | U |
| Trans-1,2-Dichloroethene 5.0 ug/l | 2 | U | U - | U 1 | U U | - L | J – U | U | U | U | - U | - U | U | U | U | UM | UM | U | U | U |
| Trichloroethylene (TCE) 5.0 ug/l | 55 | | U - | U 1 | U U | Ľ | J – U | U | U | U U | 140 E | 10 | U | U | U | UM | UM | U | U | U |
| Vinyl Chloride 2.0 ug/l | 24 | | U – | U 1 | U U | L | J – U | U | U | U U | - U | - U | U | U | U | UM | UM | U | U | U |
| Xylenes 5.0 ug/l | | U | U – | U 1 | U U | L | J – U | U | U | U U | - U | - U | U | U | U | U | U | U | U | U |
| TOTAL VOCs | 157 | 3.9 | 7 | 32.4 | | 5.87 | 2.6 | 26.4 | 14.41 | 10.48 | 221.48 | 11.7 | 5.6 | 5.9 | 6.2 | 14.5 | 3 | 21.8 | 7.86 | 9.56 |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| | Location ID Sample Matrix Date Sampled Units | ESI-13R WG 10/21/2014 ug/l | ESI-13R WG 04/21/201: ug/l | ESI-13R WG 5 11/02/2015 ug/l | ESI-13R WG 04/25/2016 ug/l | ESI-13R WG 10/20/2016 ug/l | ESI-13R WG 06/07/2017 ug/l | ESI-13R WG 05/08/2018 ug/l | ESI-13R WG 06/26/2019 ug/l | ESI-13R WG 07/15/2020 ug/l | ESI-13R WG 10/26/2021 ug/l | PW-1 WG 10/21/2014 ug/l | PW-1 WG 04/21/2015 ug/l | PW-1 WG 11/02/2015 ug/l | PW-1 WG 04/25/2016 ug/l | PW-1 WG 10/20/2016 ug/l | PW-1 WG 06/08/2017 ug/l | PW-1 WG 05/08/2018 ug/l | PW-1 WG 06/26/2019 ug/l | PW-1 WG 07/15/2020 ug/l | PW-1 WG 10/26/2021 ug/l |
|----------------------------|---|-------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| NYSDEC Groundy Guidance | vater Standards & e Values | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethan | e 5.0 ug/l | | U – | U – | U - U | J – U | - L | J – U | U | U | U | - U | - U | U | U | - U | U | U | U | U | - U |
| 1,1-Dichloroethane | 5.0 ug/l | | U – | U – | U - U | J - U | L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | U |
| 1,1-Dichloroethene | 5.0 ug/l | | U - | U – | U - U | J – U | - L | J – U | U | U | U | - U | – U | U | U | – U | U | U | U | U | - U |
| 1,2-Dichlorobenzen | e 3.0 ug/1 | | U – | U – | U - U | U - U | - L | J – U | U | U | U | - U | - U | U | U | - U | - U | U | U | U | - U |
| 1,2-Dichloroethane | 0.6 ug/l | | U - | U – | U - U | J – U | - L | J – U | U | U | U | - U | – U | U | U | – U | U | U | U | U | - U |
| 1,3-Dichlorobenzen | e 3.0 ug/1 | | U – | U – | U - U | U - U | U | J – U | U | U | U | - U | - U | U | U | - U | U | U | U | U | U |
| 1,4-Dichlorobenzen | e 3.0 ug/1 | | U - | U - | U U | u - u | - L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | - U |
| Bromoform | 50.0 ug/l | | U - | U | U U | U U | - L | J - U | U | U | U | U | U | U | U | - U | U | U | U | U | U |
| Dibromochlorometha | ne 50.0 ug/l | | U - | U – | U - U | J – U | - L | J – U | U | U | U | - U | – U | U | U | – U | U | U | U | U | - U |
| Acetone | 50.0 ug/l | | U – | U – | U - U | U - U | U | J – U | 2.4 J | U | U | - U | - U | U | U | - U | 8.09 J | U | 2.8 J | U | U |
| Benzene | 1.0 ug/l | | U – | U – | U - U | U - U | U | J – U | U | U | U | - U | - U | U | U | - U | U | U | U | U | U |
| Carbon Tetrachlorid | e 5.0 ug/l | | U – | U - | U - U | J – U | L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | U |
| Chlorobenzene | 5.0 ug/l | | U – | U – | U - U | U - U | - U | J – U | U | U | U | - U | - U | U | U | - U | U | U | U | U | U |
| Chloroform | 7.0 ug/l | | U - | U - | U U | u - u | - L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | - U |
| Cis-1,2-Dichloroethyle | ene 5.0 ug/l | 18 | 18 | 8.3 | 7.51 | 9.41 | Ľ | 1.3 | 1 J | 4.38 | U | 1.9 | 8.8 | 2.4 | 5.03 | 7.14 | 3.88 | U | U | 7.89 | U |
| Ethylbenzene | 5.0 ug/l | | U – | U - | U - U | J – U | L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | U |
| Methylene Chloride | 5.0 ug/l | | U - | U - | U U | J – U | Ľ | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | U |
| Tetrachloroethylene (P | CE) 5.0 ug/l | | U - | U - | U U | J – U | Ľ | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | U |
| Toluene | 5.0 ug/l | | U - | U – | U - U | J – U | Ľ | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | U |
| Trans-1,2-Dichloroeth | ene 5.0 ug/1 | | U - | U – | U - U | u – u | Ŭ | J – U | U | U | U | - U | - U | U | U | - U | U | U | U | U | U |
| Trichloroethylene (TC | E) 5.0 ug/l | 22 | 46 | 19 | 21 | 13 | 7.4 | 7.3 | 18 | 13.7 | 15 | 15 | 3.3 | 11 | 6.96 | 22.1 | 8.39 | 0.84 | 1.8 | 27.4 | 4.4 |
| Vinyl Chloride | 2.0 ug/l | | U - | U - | U U | u - u | - L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | - U |
| Xylenes | 5.0 ug/l | | U - | U - | U U | u - u | - L | J – U | U | U | U | - U | – U | U | U | - U | U | U | U | U | - U |
| TOTAL | . VOCs | 40 | 64 | 27.3 | 28.51 | 28.28 | 7.37 | 8.6 | 21.4 | 18.08 | 15 | 16.9 | 12.1 | 13.4 | 11.99 | 29.24 | 20.36 | 0.84 | 4.6 | 35.29 | 4.4 |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| | Location ID Sample Matrix Date Sampled Units | PW-3F WG 10/29/20 ug/l | t 14 | PW-31 WG 04/22/20 ug/l | R 015 | PW-3 WG 11/03/2 ug/l | R 015 | PW-3R WG 04/26/201 ug/l | 6 | PW-3R WG 10/21/201 ug/l | 16 | PW-3R WG 06/08/202 ug/l | 17 | PW-3F WG 05/08/20 ug/l | R 18 | PW-3F WG 06/26/20 ug/l | R 19 | PW-3F WG 07/15/20 ug/l | 20 | PW-3R WG 10/26/2021 ug/l |
|--------------------------------|---|---------------------------------|---------|---------------------------------|----------|-------------------------------|----------|----------------------------------|---|----------------------------------|----|----------------------------------|----|---------------------------------|---------|---------------------------------|---------|---------------------------------|----|-----------------------------------|
| NYSDEC Groundwat Guidance V | er Standards & 'alues | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | - U |
| 1,1-Dichloroethane | 5.0 ug/l | 5.1 | | 4.0 | | | U | | U | | U | | U | | U | | U | | U | U |
| 1,1-Dichloroethene | 5.0 ug/l | | U | | U,* | | U | | U | | U | | U | | U | | U | | U | 5.1 J |
| 1,2-Dichlorobenzene | 3.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| 1,2-Dichloroethane | 0.6 ug/l | | U | - | U | | U | | U | | U | - | U | | U | | U | | U | U |
| 1,3-Dichlorobenzene | 3.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | - U |
| 1,4-Dichlorobenzene | 3.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | - U |
| Bromoform | 50.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Dibromochloromethane | 50.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Acetone | 50.0 ug/l | 12 | | 16 | | | U | 11.3 | J | 12.3 | J | | U | 9 | | 19 | J | | U | 41 J |
| Benzene | 1.0 ug/l | 0.61 | J | 0.53 | J | | U | | U | | U | | U | | U | | U | | U | - U |
| Carbon Tetrachloride | 5.0 ug/l | | U,* | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Chlorobenzene | 5.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Chloroform | 7.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Cis-1,2-Dichloroethylene | 5.0 ug/l | 21 | | 1.6 | | 140 | | 242 | | 1450 | | 1,990 | | 70 | | 1200 | | 809 | | 2400 |
| Ethylbenzene | 5.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Methylene Chloride | 5.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Tetrachloroethylene (PCE |) 5.0 ug/l | | U | | U | | U | | U | | U | | U | | U | | U | | U | U |
| Toluene | 5.0 ug/l | 8.1 | | 6.9 | | 8.0 | J | 4.90 | | | U | | U | 4.6 | | 7.3 | J | | U | U |
| Trans-1,2-Dichloroethene | 5.0 ug/l | 39 | | | U | | U | | U | | U | 10.2 | | 2.2 | | 20 | J | 11.4 | J | 21 J |
| Trichloroethylene (TCE) | 5.0 ug/l | 0.79 | J | | U | | U | 17.2 | | 84.4 | | 229 | | | U | | U | 75.2 | | 3000 |
| Vinyl Chloride | 2.0 ug/l | 1800 | Е | 120 | Е | 790 | ^,F1 | 134 | | 751 | | 861 | | 110 | | 2200 | Е | 1440 | | 2200 |
| Xylenes | 5.0 ug/l | 2.3 | U | 1.1 | J | | U | | U | | U | | U | 1.1 | J | | U | | U | U |
| TOTAL V | OCs | 2,609.30 | | 147.71 | | 938 | | 409.4 | | 2285.4 | | 3,090.20 | | 199 | | 3,446.30 | | 2,335.60 | | 7,667.10 |

TABLE NOTES

WG - Groundwater

ug/l - micrograms per liter

S.U. - Standard Unit

Qualifier Key

J - Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

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.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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.)

I - The lower value for the two columns has been reported due to obvious interference.

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.

A - Spectra identified as "Aldol Condensation Product".

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

F - Denotes a parameter for which Paradigm does not carry cerification, the results for which should therefore only be used where ELAP certification is required, such as personal exposure assessment.

RE - Analytical results are from sample re-extraction.

R - Analytical results are from sample re-analysis.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

U - Not detected at the reported detection limit for the sample.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

S - Analytical results are from modified screening analysis.

B - 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 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 MCD-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 MDD related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit (or above the reporting limit, For common lab contaminants) in the 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. For above the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chiorde, 2-Buttanoe).

* - Indicates any recoveries outside associated acceptance windows. Surrogate ouliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.

< - Analyzed for but not detected at or above the quantitation limit

1 - Indicates data from primary column used for QC calculation.

TABLE 3: CHANGE IN TOTAL VOC CONCENTRATIONS FORMER DOWCRAFT FACILITY FALCONER, NEW YORK

| Monitoring | Total | VOC Cond | centration | (ug/L) | | | | | | | <i>Percent Change</i> <i>Oct. 2014 to Oct.</i> |
|------------|----------|----------|------------|----------|----------|----------|--------|------------------------|----------|----------|---|
| Well | Oct-14 | Apr-15 | Nov-15 | Apr-16 | Oct-16 | Apr-17 | May-18 | Jun-19 | Jul-20 | Oct-21 | 2021 |
| ESI-1 | 8.9 | 19.4 | 12 | 4.89 | 6.52 | 3.68 | 4.4 | 12.39 | 7.73 | 10.7 | 20.22% |
| ESI-2 | 816.08 | 987.9 | 6,151 | 6,839 | 895 | | 957 | 2,228 | 2,638 | 385 | -52.88% |
| ESI-3 | 4.8 | 2.5 | 4.8 | 1.06 | 8.39 | 0 | 0.3 | 4.2 | 5.47 | 6.16 | +28.33% |
| ESI-6 | 575.22 | 2,020 | 3,281.70 | 1,267.70 | 1,697.10 | 612 | 49.1 | 204 | 29 | 8.53 | -98.52% |
| ESI-7 | 208.39 | 103 | 69 | 51.2 | 137.36 | 36.35 | 82 | No sample collected | 45.44 | 21.2 | -89.83% |
| ESI-10 | 352.11 | 8.5 | 5.9 | 7.16 | 7.11 | 3.01 | 0.94 | 155.62 | 15 | 4.36 | -98.76% |
| ESI-11 | 157 | 3.9 | 7 | 32.4 | 0 | 5.87 | 2.6 | 26.4 | 14.41 | 10.48 | -93.32% |
| ESI-12 | 221.48 | 11.74 | 5.6 | 5.85 | 5.85 | 14.2 | 3 | 21.8 | 7.86 | 9.56 | -95.68% |
| ESI-13R | 40 | 64 | 27.3 | 28.51 | 28.28 | 7.37 | 8.6 | 21.4 | 18.08 | 15 | -62.50% |
| PW-1 | 16.9 | 12.1 | 13.4 | 11.99 | 29.24 | 20.36 | 0.84 | 4.6 | 35.29 | 4.4 | -74.0% |
| PW-3R | 2,609.30 | 147.71 | 938 | 409.4 | 2285.4 | 3,090.20 | 199 | 3,446.30 | 2,335.60 | 7,667.10 | +193.84% |

APPENDICES

APPENDIX A Laboratory Analytical Results

DATA USABILITY SUMMARY REPORT (DUSR)

SCC Falconer, NY Project # N30.009.001

SDG: L2159331 12 Water Samples and a Trip Blank

Prepared for:

C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 Attention: Jesse Alt-Winzig

November 2021



Page No.

Table of Contents

REVIEWER'S NARRATIVE

| 1.0 | SUMMARY | 1 |
|-----|---|---|
| 2.0 | INTRODUCTION | 1 |
| 3.0 | SAMPLE AND ANALYSIS SUMMARY | 2 |
| 4.0 | GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA | 2 |
| 5.0 | DATA VALIDATION QUALIFIERS | 3 |
| 6.0 | RESULTS OF THE DATA REVIEW | 4 |
| 7.0 | TOTAL USABLE DATA | 4 |
| | | |

| APPENDIX A | Validated Analytical Results |
|------------|------------------------------|
| APPENDIX B | Laboratory QC Documentation |
| APPENDIX C | Validator Qualifications |

Tables

| Table 4-1 | Data Validation Guidance Documents |
|-----------|--|
| Table 4-2 | Quality Control Criteria for Validating Laboratory Analytical Data |

Summaries of Validated Results

Table 6-1VOCs
REVIEWER'S NARRATIVE C&S Companies SDG L2159331 SCC

The data associated with this Sample Delivery Group (SDG) L2159331, analyzed by Alpha Analytical, Westborough, MA have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature:_

Míchael K. Perry

Date: 11/30/2021

Michael K. Perry Chemist

1.0 EVENT SUMMARY

| SITE: | SCC Falconer, NY Project #: N30.009.001 |
|----------------|---|
| SAMPLING DATE: | October 26 and 27, 2021 |
| SAMPLE TYPE: | 12 water samples, trip blank |
| LABORATORY: | Alpha Analytical Westborough, MA |
| SDG No.: | L2159331 |

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,

Compliance with established analyte holding times,

Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,

Adherence to established analytical protocols,

Conformance of data summary sheets with raw analytical data, and

Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 12 water samples and a trip blank collected on October 26 and 27, 2021. These samples were analyzed for Volatile Organic Compounds (VOCs).

All laboratory analyses were submitted to Alpha Analytical, Westborough, MA and analyzed as SDG L2159331. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

| Analyte Group | Guidance | Date |
|-------------------------------------|---------------------------|----------------|
| | | |
| Metals (ICP-AES) | USEPA SOP HW-3a, Rev. 1 | September 2016 |
| Metals (Hg & CN) | USEPA SOP HW-3c, Rev. 1 | September 2016 |
| | | |
| Volatile Organic Compounds | USEPA SOP HW-24, Rev. 4 | September 2014 |
| (by Methods 8260B & 8260C) | | |
| | | |
| Semi-Volatile Organic Compounds | USEPA SOP HW-22 Rev. 5 | December 2010 |
| (by Method 8270D) | | |
| | | |
| Pesticides (by Method 8181B) | USEPA SOP HW-44, Rev. 1.1 | December 2010 |
| | | |
| Chlorinated Herbicides | USEPA SOP HW-17, Rev. 3.1 | December 2010 |
| (by Method 8151A) | | |
| Polychlorinated Rinhenyls (PCRs) | LISEDA SOD HW/-27A Pov O | luno 2015 |
| Folychionnated biphenyis (FCBS) | 03EFA 30F HW-37A, Nev. 0 | Julie 2015 |
| Volatile Organic Compounds (Air) | LISEPA SOP HW-31 Rev 6 | September 2016 |
| (by Method TO-15) | | September 2010 |
| (0) | | |
| Per- and PolyFluoroAlkyl Substances | * NYSDEC | January 2021 |
| (PFAS) | | |
| | | |
| General Chemistry Parameters | per NYSDEC ASP | July 2005 |
| | | |

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

| VOCs | SVOCs | Pesticides/PCBs | Metals | Gen Chemistry | PFAS |
|------------------------|------------------------|------------------------|----------------------|---------------------|------------------------|
| Completeness of Pkg | Completeness of Pkg | Completeness of Pkg | Completeness of Pkg | Completeness of Pkg | Completeness of Pkg |
| Sample Preservation | Sample Preservation | Sample Preservation | Sample Preservation | Sample Preservation | Sample Preservation |
| Holding Time | Holding Time | Holding Time | Holding Time | Holding Times | Holding Time |
| System Monitoring | Surrogate Recoveries | Surrogate Recoveries | Initial/Continuing | Calibration | Instr Performance |
| Compounds | Lab Control Sample | Matrix Spikes | Calibration | Lab Control Samples | Check |
| Lab Control Sample | Matrix Spikes | Blanks | CRDL Standards | Blanks | Initial Calibration |
| Matrix Spikes | Blanks | Instrument Calibration | Blanks | Spike Recoveries | Continuing Calibration |
| Blanks | Instrument Tuning | & Verification | Interference Check | Lab Duplicates | Blanks |
| Instrument Tuning | Internal Standards | Comparison of | Sample | | Surrogates |
| Internal Standards | Initial Calibration | duplicate | Spike Recoveries | | Lab Fortified Blank |
| Initial Calibration | Continuing Calibration | GC column results | Lab Duplicate | | Matrix Spikes |
| Continuing Calibration | Lab Qualifiers | Analyte ID | Lab Control Sample | | Internal Standards |
| Lab Qualifiers | Field Duplicate | Lab Qualifiers | ICP Serial Dilutions | | |
| Field Duplicate | | Field Duplicate | Lab Qualifiers | | |
| | | | Field Duplicate | | |

| Method TO-15 (Air) |
|-------------------------|
| Completeness of Pkg |
| Sample Preservation |
| Holding Time |
| Canister Certification |
| Instrument Tuning |
| Initial Calibration and |
| Instrument Performance |
| Daily Calibration |
| Blanks |
| Lab Control Sample |
| Field Duplicate |
| |

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the concentration of the analyte in the sample. (The magnitude of any value associated with the result is not determined by data validation).
- **J**+ The result is an estimated quantity and may be biased high.
- **J-** The result is an estimated quantity and may be biased low.
- **UJ** The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may inaccurate or imprecise.
- **R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- **NJ** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 **RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG L2159331, thirteen samples were analyzed and results were reported for 754 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

SDG L2159331

Table 6-1VOCs

SAMPLES ACTION ANALYTES **QC VIOLATION COMMENTS** AFFECTED J detects PW-1 Naphthalene LCS rec < QC limit Data are estimated UJ non-detects Chloroethane J detects ESI-3 MS rec > QC limit Data are estimated Acetone J detects MS rec < QC limit ESI-3 Data are estimated Naphthalene UJ non-detects 1,2,4-Trichlorobenzene Acetone J detects ICAL < 0.100 but >All samples 2-Butanone Data are estimated UJ non-detects 0.010 4-Methyl-2-pentanone 4-Methyl-2-pentanone J detects PW-1 CCV > QC limit Data are estimated Naphthalene UJ non-detects Chloroethane J detects All samples (except PW-CCV > QC limit Data are estimated Freon 113 UJ non-detects 1) All samples CRQL-U Detected in trip blank Detected data changed to non-detect Acetone

ACRONYMS

| BSP | Blank Spike |
|--------|--------------------------------------|
| CCAL | Continuing Calibration |
| ССВ | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification |
| CRDL | Contract Required Detection Limit |
| CRQL | Contract Required Quantitation Limit |
| %D | Percent Difference |
| ICAL | Initial Calibration |
| ICB | Initial Calibration Blank |
| IS | Internal Standard |
| LCS | Laboratory Control Sample |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| QA | Quality Assurance |
| QC | Quality Control |
| % R | Percent recovery |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| %RSD | Percent Relative Standard Deviation |
| TAL | Target Analyte List (metals) |
| TCL | Target Compound List (organics) |

Appendix A

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Validated Analytical Results



www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L2159331

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.

Project Name:SCCProject Number:N30.009.001

 Lab Number:
 L2159331

 Report Date:
 11/04/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-------------------|--------|--------------------|-------------------------|--------------|
| L2159331-01 | ESI-3-102621 | WATER | FALCONER, NY | 10/26/21 11:42 | 10/28/21 |
| L2159331-02 | PW-1-102621 | WATER | FALCONER, NY | 10/26/21 12:00 | 10/28/21 |
| L2159331-03 | DUP-102621 | WATER | FALCONER, NY | 10/26/21 12:30 | 10/28/21 |
| L2159331-04 | ESI-7-102621 | WATER | FALCONER, NY | 10/26/21 12:55 | 10/28/21 |
| L2159331-05 | ESI-13R-102621 | WATER | FALCONER, NY | 10/26/21 13:30 | 10/28/21 |
| L2159331-06 | ESI-3R-102621 | WATER | FALCONER, NY | 10/26/21 14:00 | 10/28/21 |
| L2159331-07 | ESI-12-102721 | WATER | FALCONER, NY | 10/27/21 10:35 | 10/28/21 |
| L2159331-08 | ESI-11-102721 | WATER | FALCONER, NY | 10/27/21 11:15 | 10/28/21 |
| L2159331-09 | ESI-10-102721 | WATER | FALCONER, NY | 10/27/21 12:00 | 10/28/21 |
| L2159331-10 | ESI-1-102721 | WATER | FALCONER, NY | 10/27/21 13:15 | 10/28/21 |
| L2159331-11 | ESI-6-102721 | WATER | FALCONER, NY | 10/27/21 13:45 | 10/28/21 |
| L2159331-12 | ESI-2-102721 | WATER | FALCONER, NY | 10/27/21 14:45 | 10/28/21 |
| L2159331-13 | TRIP-BLANK-102721 | WATER | FALCONER, NY | 10/27/21 15:00 | 10/28/21 |



Project Name: SCC Project Number: N30.009.001
 Lab Number:
 L2159331

 Report Date:
 11/04/21

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2159331-01: The collection date and time on the chain of custody was 26-OCT-21 11:42; however, the collection date/time on the container label was 26-OCT-21 11:30. At the client's request, the collection date/time is reported as 26-OCT-21 11:42.

L2159331-02: A sample identified as "PW-2-102621" was listed on the Chain of Custody, but not received. This was verified by the client. At the client's request the sample is identified as "PW-1-102621".

L2159331-07: The collection date and time on the chain of custody was 27-OCT-21 10:35; however, the collection date/time on the container label was 27-OCT-21 10:00. At the client's request, the collection date/time is reported as 27-OCT-21 10:35.

L2159331-12: The collection date and time on the chain of custody was 27-OCT-21 14:45; however, the collection date/time on the container label was 27-OCT-21 14:30. At the client's request, the collection date/time is reported as 27-OCT-21 14:45.

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:

Cattlin Waluten

Report Date: 11/04/21

Title: Technical Director/Representative



| | CHAIN OF CUSTODY | Mahwah, NJ 07430: 35 Whitne Albany, NY 12205: 14 Walker V Tonawanda, NY 14150: 275 Co | y Rd, Suite 5 Vay oper Ave, Suite 105 | | Page | 2 | - [| Date F in L | Rec'd ab | 1 | olali | 21 | ALPHA JOD # L215932 | 1 |
|--|---|---|---|-------------|--------|-------------|---------|----------------|----------------|--------|-------------------|-------|---|----------------------|
| Westborough, MA 01581 | Mansfield, MA 02048 | Project Information | and the second second in | N ALSO | | | Delive | rables | | il and | - | | Billing Information | - |
| 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Project Name: | Conor | . 16 | / | | | ASP-A | (1 File) | | ASP-B EQuIS (4 | File) | Po N30-009-0 | d |
| Client Information | | Project # 1/2 | P00 3 | hol | / | | T | Other | | 11100 | | 10650 | | - L. |
| Client (ST) | norhers | (Use Project name as P | Oiect # | 211 | | | Regul | atory F | Requireme | ent | | Sans | Disposal Site Information | |
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| These samples have bee Other project specific r | en previously analyze | ed by Alpha | | | | _ | ANAL | 1315 | | | | - | Sample Filtration | - 0 |
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| Od t | -2-11 | 02621 | 011 | 12:00 | GW | on | - | | | | | | | 3 |
| 03 1 | DUP-10 | 2621 | | 12:30 | Giv | CM. | X | | | | | | | 3 |
| 07 2 | ST-7- | 102621 | | 12:55 | GW | cm | H | | | | | | | 3 |
| ost | EST-13 | 2-102621 | | 1:30 | GW | CM | + | 1 | | | | | | 3 |
| 06 | 2.PW-3A | 2-102621 | No 1 | 2:00 | GW | CM | H | | | | | | | Y |
| of F | 55-12- | 102721 | 10/22/2 | 1103 | 649 | Im | F | - | - | | | | | 5 |
| 08 2 | ST-11-1 | 107771 | 10101 | 11:15 | GN | CM | P | 3 | | | | | | 3 |
| 09 2 | EST-IN- | -107771 | | nin | GIN | Cm | H | - | | | | | | e |
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| | NEW YORK CHAIN OF CUSTODY | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Cod | Rd, Suite 5 lay sper Ave, Suite 105 | Page Zo | 12 | Da | te Rec'd In Lab | | 10/20 | 2/21 | ALPHA JOB # L215933 | , |
|---|--|--|---|--------------------------------------|----------------------------|----------------------------------|--|---------------------------|-----------------------------|--------------|--|-------------------------------|
| Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Project Information Project Name: 30 Project Location: 7 | Caner, | 121 | | Delivera | bles SP-A QuIS (1 File | | ASP-B EQuIS (4 | 1 File) | Billing Information | X |
| Client Information | | Project # N 30 | .00900 | 1 | | 0 | her | | 0 10 m 4 10 m | | | |
| Address: 141 E | The | ALPHAQuote #: | oject # La Ma | rtin | | | ory Require 7 TOGS VQ Standard | s and | NY Part 3 NY CP-51 | 75 | Disposal Site Information Please identify below location o applicable disposal facilities. | xf |
| Phone: Fax: Email: CMATHIN | Desesa | Turn-Around Time Standard Wush (only if pre approved) | Due Due # of I | Date: Days: | | ИМ [] ИМ [] ИМ [] ИМ [] | ' Restricted U ' Unrestricted 'C Sewer Dis | Jse 🔄 1 Use schärge | Other | | Disposal Facility: | |
| These samples have be | en previously analyz | ed by Alpha | | | | ANALY | SIS | | | | Sample Filtration | Т |
| Other project specific i Please specify Metals o | requirements/comm or TAL. | nents: | | | | STOL UNC | | | | | Done Lab to do Preservation Lab to do (Please Specify below) | t a I B o t |
| ALPHA Lab ID (Lab Use Only) | Sa | imple ID | Collection Date Tim | Sample Matrix | Sampler's Initials | Sel | | | | | Sample Specific Comments | - 1 |
| 5933)~ 11 2 | ESI-6-2 ESI-2- 78 | 102721 | 10/27/21 1: 4 10/27/21 \$ | 15 GW 245 GW | CM. CM | Ŧ | | | | | | MI(M) |
| 13 - | TRIP-1 | 31-ANK-10272 | 1 10/21 3:0 | 20 GM | CM | + | | | | | | 3 |
| | | | | | | | | | | | | |
| Instructive Code: C Instructive Code: P Instructive Code: P | Container Code = Plastic = Amber Glass = Vial = Glass = Bass = Suberia Cup | Westboro: Certification No Mansfield: Certification No | o: MA935 o: MA015 | Con | tainer Type reservative | BA | | | | | Please print clearly, legib and completely. Samples not be logged in and turnaround time clock wil start until any ambiguities | ly s can I not s are |
| = MeOH C S = NaHSO ₄ O I = Na ₂ S ₂ O ₃ E //E = Zn Ac/NaOH D D = Other | = Other = Encore | TATANA TATANA TARA | AAL 10 | Date/Time 28/21 2:3 25/21 /6/2 | 9 4 R | | BY: ANC | - 10/2 10 | Date/Tin 29/21 29/21/ | 1411 7690 | resolved. BY EXECUTIN THIS COC, THE CLIENT HAS READ AND AGREE TO BE BOUND BY ALPH TERMS & CONDITIONS | G IS HA'S |
| orm No: 01-25 HC (rev. 30-5 | Sept-2013) | | | | | | V | | | | (See reverse side.) | |

GC/MS 8260 Analysis

| Project Name: SCCLab ID: L2159331-01Client ID: ESI-3-102621Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N14Sample Amount: 10 mlLevel: LOWExtract Volume (MeOH): N/A | | L F C C U U U U U U U U U | ab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column & Solids Njection Volume | N30.009.001 10/26/21 11:42 10/28/21 11/03/21 21:18 1 NLK VOA108 RTX-502.2 N/A N/A | |
|---|---------------------------|---|--|--|--|
| CAS NO. | Parameter | Results | ug/L RL MDL | Qualifier | |
| | | | | | |
| 75-09-2 | Methylene chloride | ND | 2.5 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 0.14 | U | |
| 75-25-2 | Bromoform | ND | 2.0 0.65 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 0.17 | U | |



| Client: C&S CompaniesProject Name: SCCLab ID: L2159331-01Client ID: ESI-3-102621Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N14Sample Amount: 10 mlLevel: LOWExtract Volume (MeOH): N/A | | | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume GC Colum %Solids Injection | ber umber lected eived lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/26/21 11:42 : 10/28/21 : 11/03/21 21:18 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|-----------------------------|--------|---------|--|--|--|--|
| CAS NO. | Parameter | | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | | 0.66 | 0.50 | 0.18 | | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.5 UJ | 5.8 | 5.0 | 1.5 | | |
| 75-15-0 | Carbon disulfide | | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | | ND UJ | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | | ND | 2.5 | 0.70 | U | |



| | Client | : C&S Companies | | Lab Num | ber | : L2159331 | |
|---------|-----------------------------|------------------------|---------|-------------------|--------|------------------|--|
| | Project Name | : SCC | | Project N | lumber | : N30.009.001 | |
| | Lab ID | : L2159331-01 | | Date Col | lected | : 10/26/21 11:42 | |
| | Client ID | : ESI-3-102621 | | Date Rec | eived | : 10/28/21 | |
| | Sample Location | : FALCONER, NY | | Date Ana | lyzed | : 11/03/21 21:18 | |
| | Sample Matrix | : WATER | | Dilution F | actor | : 1 | |
| | Analytical Method | : 1,8260C | | Analyst | | : NLK | |
| | Lab File ID | : V08211103N14 | | Instrume | nt ID | : VOA108 | |
| | Sample Amount | : 10 ml | | GC Colu | mn | : RTX-502.2 | |
| | Level | : LOW | | %Solids | | : N/A | |
| | Extract Volume (MeOH) : N/A | | | Injection | Volume | : N/A | |
| | · · | | | • | | | |
| | | | | ug/L | | | |
| CAS N | 0. | Parameter | Results | RL | MDL | Qualifier | |
| | | | | | | | |
| 120-82· | -1 | 1,2,4-Trichlorobenzene | ND UJ | 2.5 | 0.70 | U | |
| 108-67 | -8 | 1 3 5-Trimethylbenzene | ND | 2.5 | 0 70 | | |
| | <u> </u> | | | 2.5 | 0.70 | • | |
| 95-63-6 | 6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U | |
| 79-20-9 | 9 | Methyl Acetate | ND | 2.0 | 0.23 | U | |
| 110-82 | -7 | Cyclohexane | ND | 10 | 0.27 | U | |
| 76-13-1 | 1 | Freon-113 | ND UJ | 2.5 | 0.70 | U | |
| 108-87 | -2 | Methyl cyclohexane | ND | 10 | 0.40 | U | |
| | | | | | | | |

MKP 11/30/2021



| Project Name:SCCLab ID:L2159331-02Client ID:PW-1-102621Sample Location:FALCONER, NYSample Matrix:WATERAnalytical Method:1,8260CLab File ID:V08211104A06Sample Amount:10 mlLevel:LOWExtract Volume (MeOH):N/A | | | Lab Numbe Project Nur Date Collec Date Recei Date Analys Dilution Fac Analyst Instrument GC Columr %Solids | er nber sted ved zed stor ID n | : L2159331 : N30.009.001 : 10/26/21 12:00 : 10/28/21 : 11/04/21 08:45 : 1 : PD : VOA108 : RTX-502.2 : N/A : N/A | |
|--|---------------------------|---------|---|---|---|--|
| CAS NO. | Parameter | Results | ug/L RL | MDL | Qualifier | |
| | | noouno | | | duinoi | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Project Name: SGC CompaniesLab ID: L2159331-02Client ID: PW-1-102621Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211104A06Sample Amount: 10 mlLevel: LOWExtract Volume (MeOH): N/A | | Project Number : N30.009.001 Date Collected : 10/26/21 12:00 Date Received : 10/28/21 Date Analyzed : 11/04/21 08:45 Dilution Factor : 1 Analyst : PD Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|--|-----------------------------|--|-----------|-----------|--|--|
| CASNO | Parameter | Results | ug/L | Qualifier | | |
| | Falameter | nesuits | | Quaimer | | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 0.70 | U | | |
| 79-01-6 | Trichloroethene | 4.4 | 0.50 0.18 | | | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 0.70 | U | | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 0.70 | U | | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 0.70 | U | | |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 0.70 | U | | |
| 179601-23-1 | p/m-Xylene | ND | 2.5 0.70 | U | | |
| 95-47-6 | o-Xylene | ND | 2.5 0.70 | U | | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 0.70 | U | | |
| 100-42-5 | Styrene | ND | 2.5 0.70 | U | | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 1.0 | U | | |
| 67-64-1 | Acetone | ND UJ | 5.0 1.5 | U | | |
| 75-15-0 | Carbon disulfide | ND | 5.0 1.0 | U | | |
| 78-93-3 | 2-Butanone | ND UJ | 5.0 1.9 | U | | |
| 108-10-1 | 4-Methyl-2-pentanone | ND UJ | 5.0 1.0 | U | | |
| 591-78-6 | 2-Hexanone | ND | 5.0 1.0 | U | | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 0.65 | U | | |
| 104-51-8 | n-Butylbenzene | ND | 2.5 0.70 | U | | |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 0.70 | U | | |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 0.70 | U | | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 0.70 | U | | |
| 98-82-8 | Isopropylbenzene | ND | 2.5 0.70 | U | | |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 0.70 | U | | |
| 91-20-3 | Naphthalene | ND UJ | 2.5 0.70 | U | | |
| 103-65-1 | n-Propylbenzene | ND | 2.5 0.70 | U | | |



| | Client | : C&S Companies | | Lab Num | ber | : L2159331 | |
|---------|-------------------|------------------------|---------|-------------------|--------|------------------|--|
| | Project Name | : SCC | | Project N | umber | : N30.009.001 | |
| | Lab ID | : L2159331-02 | | Date Col | ected | : 10/26/21 12:00 | |
| | Client ID | : PW-1-102621 | | Date Rec | eived | : 10/28/21 | |
| | Sample Location | : FALCONER, NY | | Date Ana | lyzed | : 11/04/21 08:45 | |
| | Sample Matrix | : WATER | | Dilution F | actor | : 1 | |
| | Analytical Method | : 1,8260C | | Analyst | | : PD | |
| | Lab File ID | : V08211104A06 | | Instrume | nt ID | : VOA108 | |
| | Sample Amount | : 10 ml | | GC Colu | mn | : RTX-502.2 | |
| | Level | : LOW | | %Solids | | : N/A | |
| | Extract Volume (N | leOH):N/A | | Injection | Volume | : N/A | |
| | · | | | • | | | |
| | | | | ug/L | | | |
| CAS N | ю. | Parameter | Results | RL | MDL | Qualifier | |
| | | | | | | | |
| 120-82 | -1 | 1.2.4-Trichlorobenzene | ND | 2.5 | 0.70 | U | |
| | | | | | | | |
| 108-67 | -8 | 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U | |
| 95-63-6 | 6 | 1,2,4-Trimethylbenzene | ND | 2.5 | 0.70 | U | |
| 79-20-9 | 9 | Methyl Acetate | ND | 2.0 | 0.23 | U | |
| 110-82 | 2-7 | Cyclohexane | ND | 10 | 0.27 | U | |
| 76-13-1 | 1 | Freon-113 | ND | 2.5 | 0.70 | U | |
| 108-87 | /-2 | Methyl cyclohexane | ND | 10 | 0.40 | U | |
| | | | | | | | |

| Project Name:SCCLab ID:L2159331-03Client ID:DUP-102621Sample Location:FALCONER, NYSample Matrix:WATERAnalytical Method:1,8260CLab File ID:V08211103N15Sample Amount:10 mlLevel:LOWExtract Volume (MeOH):N/A | | Project Number : N30.009.001 Date Collected : 10/26/21 12:30 Date Received : 10/28/21 Date Analyzed : 11/03/21 21:38 Dilution Factor : 1 Analyst : NLK Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|---|---------------------------|---|----------------|-----------|--|--|
| CASNO | Parameter | Results | ug/L BI MDI | Qualifier | | |
| | | nesuits | | Quainer | | |
| 75-09-2 | Methylene chloride | ND | 2.5 0.70 | U | | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 0.70 | U | | |
| 67-66-3 | Chloroform | ND | 2.5 0.70 | U | | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 0.13 | U | | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 0.14 | U | | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 0.15 | U | | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 0.50 | U | | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 0.18 | U | | |
| 108-90-7 | Chlorobenzene | ND | 2.5 0.70 | U | | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 0.70 | U | | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 0.13 | U | | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 0.70 | U | | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 0.19 | U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 0.16 | U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 0.14 | U | | |
| 75-25-2 | Bromoform | ND | 2.0 0.65 | U | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 0.17 | U | | |
| 71-43-2 | Benzene | ND | 0.50 0.16 | U | | |
| 108-88-3 | Toluene | ND | 2.5 0.70 | U | | |
| 100-41-4 | Ethylbenzene | ND | 2.5 0.70 | U | | |
| 74-87-3 | Chloromethane | ND UJ | 2.5 0.70 | U | | |
| 74-83-9 | Bromomethane | ND | 2.5 0.70 | U | | |
| 75-01-4 | Vinyl chloride | ND | 1.0 0.07 | U | | |
| 75-00-3 | Chloroethane | ND | 2.5 0.70 | U | | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 0.17 | U | | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (N | : C&S Companies : SCC : L2159331-03 : DUP-102621 : FALCONER, NY : WATER : 1,8260C : V08211103N15 : 10 ml : LOW MeOH) : N/A | | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume GC Colu %Solids Injection | ber umber ected lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/26/21 12:30 : 10/28/21 : 11/03/21 21:38 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|--|--------|---------|---|--|--|--|
| CAS NO. | Parameter | | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | | 4.4 | 0.50 | 0.18 | | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.0 UJ | 17- | 5.0 | 1.5 | J | |
| 75-15-0 | Carbon disulfide | | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | | ND | 2.5 | 0.70 | U | |



| Client | : C&S Companies | | Lab Num | ber | : L2159331 | |
|---|---|--|---------------------------------------|--|--------------------------------------|--|
| Project Nam | e : SCC | | Project N | umber | : N30.009.001 | |
| Lab ID | : L2159331-03 | | Date Coll | lected | : 10/26/21 12:30 | |
| Client ID | : DUP-102621 | | Date Rec | eived | : 10/28/21 | |
| Sample Loca | ation : FALCONER, NY | | Date Ana | lyzed | : 11/03/21 21:38 | |
| Sample Mat | rix : WATER | | Dilution F | actor | : 1 | |
| Analytical M | ethod : 1,8260C | | Analyst | | : NLK | |
| Lab File ID | : V08211103N15 | | Instrume | nt ID | : VOA108 | |
| Sample Amo | ount : 10 ml | | GC Colui | mn | : RTX-502.2 | |
| Level | : LOW | (| %Solids | | : N/A | |
| Extract Volu | Ever . LOW Extract Volume (MeOH) : N/A | | Injection | Volume | : N/A | |
| | (), | | • | | | |
| | | | ug/L | | | |
| | Paramatar | Poculto | PI | MDI | Qualifier | |
| CAS NO. | Falameter | nesuits | nL | | Quanner | |
| CA3 NO. | Falameter | nesuits | n L | | Guanner | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U | |
| 120-82-1 108-67-8 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 | U | |
| 120-82-1 108-67-8 95-63-6 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene | ND ND ND | 2.5 2.5 2.5 | 0.70 | U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate | ND ND ND ND ND | 2.5 2.5 2.5 2.0 | 0.70 0.70 0.70 0.23 | U U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane | ND ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 | 0.70 0.70 0.70 0.23 0.27 | U U U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane Freon-113 | ND ND ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 2.5 | 0.70 0.70 0.70 0.23 0.27 0.70 | U U U U U U U U | |

MKP 11/30/2021



| Project Name:SCCLab ID:L2159331-04Client ID:ESI-7-102621Sample Location:FALCONER, NYSample Matrix:WATERAnalytical Method:1,8260CLab File ID:V08211103N16Sample Amount:10 mlLevel:LOWExtract Volume (MeOH):N/A | | Project Number : N30.009.001 Date Collected : 10/26/21 12:55 Date Received : 10/28/21 Date Analyzed : 11/03/21 21:58 Dilution Factor : 1 Analyst : NLK Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|---|---------------------------|---|------|------|-----------|--|
| CASNO | Devemeter | Populto | ug/L | MDI | Qualifier | |
| CAS NO. | Parameter | Results | RL | MDL | Quaimer | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (M | : C&S Companies : SCC : L2159331-04 : ESI-7-102621 : FALCONER, NY : WATER : 1,8260C : V08211103N16 : 10 ml : LOW MeOH) : N/A | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume GC Colum %Solids Injection | ber umber lected eived lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/26/21 12:55 : 10/28/21 : 11/03/21 21:58 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|--|----------|--|--|--|--|
| CASNO | Parameter | Bosults | ug/L Bl | MDI | Qualifier | |
| | T drameter | nesuits | | MDL | Quaimer | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | 18 | 0.50 | 0.18 | | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.0 UJ 🦯 | 5.0 | 1.5 | J | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U | |



| Client | : C&S Companies | | Lab Num | ıber | : L2159331 | |
|--|---|--|---|---|--|--|
| Project Nar | ne : SCC | | Project Number | | : N30.009.001 | |
| Lab ID | : L2159331-04 | | Date Col | lected | : 10/26/21 12:55 | |
| Client ID | : ESI-7-102621 | I | Date Rec | ceived | : 10/28/21 | |
| Sample Loo | cation : FALCONER, NY | | Date Ana | alyzed | : 11/03/21 21:58 | |
| Sample Ma | trix : WATER | | Dilution F | actor | : 1 | |
| Analytical M | /lethod : 1,8260C | | Analyst | | : NLK | |
| Lab File ID : V08211103N16 | | Instrument ID | | | : VOA108 | |
| Sample Am | nount : 10 ml | | GC Colu | mn | : RTX-502.2 | |
| Level | : LOW | (| %Solids | | : N/A | |
| Extract Volume (MeOH) : N/A | | I | Injection | Volume | : N/A | |
| | | | | | | |
| | | | ua/L | | | |
| | | | - g = | | | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| CAS NO. | Parameter 1,2,4-Trichlorobenzene | Results | 2.5 | MDL 0.70 | Qualifier U | |
| CAS NO. 120-82-1 108-67-8 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene | Results ND ND | 2.5 2.5 | MDL 0.70 0.70 | Qualifier U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene | Results ND ND ND | 2.5 2.5 2.5 2.5 | MDL 0.70 0.70 0.70 | Qualifier U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate | Results ND ND ND ND ND ND ND | RL 2.5 2.5 2.5 2.5 2.0 | MDL 0.70 0.70 0.70 0.23 | Qualifier U U U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane | Results ND | RL 2.5 2.5 2.5 2.0 10 | MDL 0.70 0.70 0.70 0.23 0.27 | Qualifier U U U U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane Freon-113 | Results ND | RL 2.5 2.5 2.5 2.0 10 2.5 | MDL 0.70 0.70 0.70 0.23 0.27 0.70 | Qualifier U U U U U U U | |

MKP 11/30/2021



| Project Name:SCCLab ID:L2159331-05Client ID:ESI-13R-102621Sample Location:FALCONER, NYSample Matrix:WATERAnalytical Method:1,8260CLab File ID:V08211103N17Sample Amount:10 mlLevel:LOWExtract Volume (MeOH):N/A | | Project Number : N30.009.001 Date Collected : 10/26/21 13:30 Date Received : 10/28/21 Date Analyzed : 11/03/21 22:18 Dilution Factor : 1 Analyst : NLK Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|---|---------------------------|---|------|------|-----------|--|
| CAS NO | Devementer | Paquita | ug/L | | Qualifier | |
| CAS NO. | Parameter | Results | | NDL | Qualifier | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (M | : C&S Companies : SCC : L2159331-05 : ESI-13R-102621 : FALCONER, NY : WATER I : 1,8260C : V08211103N17 : 10 ml : LOW MeOH) : N/A | N17 | | | : L2159331 : N30.009.001 : 10/26/21 13:30 : 10/28/21 : 11/03/21 22:18 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|--|---------|------|------|--|--|
| CASNO | Parameter | Besults | ug/L | | Qualifier | |
| | | nesuits | | | Guainiei | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | 15 | 0.50 | 0.18 | | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | ND UJ | 5.0 | 1.5 | U | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U | |



| Client | : C&S Companies | I | Lab Numb | ber | : L2159331 | |
|--|---|--|---|---|--|--|
| Project Name | : SCC | I | Project Nu | umber | : N30.009.001 | |
| Lab ID | : L2159331-05 | I | Date Colle | ected | : 10/26/21 13:30 | |
| Client ID | : ESI-13R-102621 | I | Date Rece | eived | : 10/28/21 | |
| Sample Locatio | on : FALCONER, NY | I | Date Anal | yzed | : 11/03/21 22:18 | |
| Sample Matrix | : WATER | 1 | Dilution Fa | actor | : 1 | |
| Analytical Meth | od : 1,8260C | | Analyst | | : NLK | |
| Lab File ID | : V08211103N17 | I | Instrumen | t ID | : VOA108 | |
| Sample Amoun | t : 10 ml | (| GC Colum | าท | : RTX-502.2 | |
| Level | : LOW | c | %Solids | | : N/A | |
| Extract Volume | Extract Volume (MeOH) : N/A | | niection V | /olume | : N/A | |
| | | | - | | | |
| | | | ug/L | | | |
| | | | | | | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| CAS NO. 120-82-1 | Parameter 1,2,4-Trichlorobenzene | Results | RL 2.5 | MDL 0.70 | Qualifier U | |
| CAS NO. 120-82-1 108-67-8 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene | Results ND ND | RL 2.5 2.5 | MDL 0.70 0.70 | Qualifier U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene | Results ND ND ND ND | RL 2.5 2.5 2.5 | MDL 0.70 0.70 0.70 | Qualifier U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate | Results ND ND ND ND ND ND | RL 2.5 2.5 2.5 2.0 | MDL 0.70 0.70 0.70 0.23 | Qualifier U U U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane | Results ND ND ND ND ND ND ND ND ND | RL 2.5 2.5 2.5 2.0 10 | MDL 0.70 0.70 0.70 0.23 0.27 | Qualifier U U U U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane Freon-113 | Results ND | RL 2.5 2.5 2.5 2.0 10 2.5 | MDL 0.70 0.70 0.70 0.23 0.27 0.70 | Qualifier U U U U U U U | |

MKP 11/30/2021



| Project Name: SGC ComputitesLab ID: L2159331-06DClient ID: ESI-3R-102621Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N24Sample Amount: 0.4 mlLevel: LOWExtract Volume (MeOH): N/A | | Project Number : N30.009.001 Date Collected : 10/26/21 14:00 Date Received : 10/28/21 Date Analyzed : 11/04/21 00:41 Dilution Factor : 25 Analyst : NLK Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|---|---------------------------|--|----------------|-----------|--|--|
| CAS NO. | Parameter | Results | ug/L RL MDL | Qualifier | | |
| | | | | | | |
| 75-09-2 | Methylene chloride | ND | 62 18. | U | | |
| 75-34-3 | 1,1-Dichloroethane | ND | 62 18. | U | | |
| 67-66-3 | Chloroform | ND | 62 18. | U | | |
| 56-23-5 | Carbon tetrachloride | ND | 12 3.4 | U | | |
| 78-87-5 | 1,2-Dichloropropane | ND | 25 3.4 | U | | |
| 124-48-1 | Dibromochloromethane | ND | 12 3.7 | U | | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 38 12. | U | | |
| 127-18-4 | Tetrachloroethene | ND | 12 4.5 | U | | |
| 108-90-7 | Chlorobenzene | ND | 62 18. | U | | |
| 75-69-4 | Trichlorofluoromethane | ND | 62 18. | U | | |
| 107-06-2 | 1,2-Dichloroethane | ND | 12 3.3 | U | | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 62 18. | U | | |
| 75-27-4 | Bromodichloromethane | ND | 12 4.8 | U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 12 4.1 | U | | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 12 3.6 | U | | |
| 75-25-2 | Bromoform | ND | 50 16. | U | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 12 4.2 | U | | |
| 71-43-2 | Benzene | ND | 12 4.0 | U | | |
| 108-88-3 | Toluene | ND | 62 18. | U | | |
| 100-41-4 | Ethylbenzene | ND | 62 18. | U | | |
| 74-87-3 | Chloromethane | ND | 62 18. | U | | |
| 74-83-9 | Bromomethane | ND | 62 18. | U | | |
| 75-01-4 | Vinyl chloride | 2200 | 25 1.8 | | | |
| 75-00-3 | Chloroethane | ND UJ | 62 18. | U | | |
| 75-35-4 | 1,1-Dichloroethene | 5.1 | 12 4.2 | J | | |



| Client: C&S CompaniesProject Name: SCCLab ID: L2159331-06DClient ID: ESI-3R-102621Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N24Sample Amount: 0.4 mlLevel: LOWExtract Volume (MeOH): N/A | | | Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column %Solids Injection Volume | | | : L2159331 : N30.009.001 : 10/26/21 14:00 : 10/28/21 : 11/04/21 00:41 : 25 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|---|-----------------------------|--------|---|------------|-----|---|--|
| CAS NO. | Parameter | | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | | 21 | 62 | 18. | J | |
| 79-01-6 | Trichloroethene | | 3000 | 12 | 4.4 | | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 62 | 18. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 62 | 18. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 62 | 18. | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 62 | 18. | U | |
| 179601-23-1 | p/m-Xylene | | ND | 62 | 18. | U | |
| 95-47-6 | o-Xylene | | ND | 62 | 18. | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | 2400 | 62 | 18. | | |
| 100-42-5 | Styrene | | ND | 62 | 18. | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 120 | 25. | U | |
| 67-64-1 | Acetone | 120 UJ | 41 | 120 | 36. | J | |
| 75-15-0 | Carbon disulfide | | ND | 120 | 25. | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 120 | 48. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 120 | 25. | U | |
| 591-78-6 | 2-Hexanone | | ND | 120 | 25. | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 50 | 16. | U | |
| 104-51-8 | n-Butylbenzene | | ND | 62 | 18. | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 62 | 18. | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 62 | 18. | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 62 | 18. | U | |
| 98-82-8 | Isopropylbenzene | | ND | 62 | 18. | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 62 | 18. | U | |
| 91-20-3 | Naphthalene | | ND | 62 | 18. | U | |
| 103-65-1 | n-Propylbenzene | | ND | 62 | 18. | U | |



| Client | : C&S Companies | | | Lab Num | ber | : L2159331 | | | |
|----------|-----------------------------|--------------|------------------------------|---------------------------------|--------|-------------|--|--|--|
| Projec | ct Name : SC | | Project Number : N30.009.001 | | | | | | |
| Lab ID | b ID : L2159331-06D | | | Date Collected : 10/26/21 14:00 | | | | | |
| Client | ID : ES | SI-3R-102621 | | Date Received : 10/28/21 | | | | | |
| Samp | ble Location : FA | LCONER, NY | | Date Analyzed : 11/04/21 00:41 | | | | | |
| Samp | ole Matrix : W | ATER | | Dilution F | actor | : 25 | | | |
| Analv | tical Method : 1.8 | 3260C | | Analyst : NLK | | | | | |
| Lab F | ile ID : VO | 8211103N24 | | Instrume | nt ID | : VOA108 | | | |
| Samp | ble Amount : 0.4 | 4 ml | GC Column | | | : RTX-502.2 | | | |
| Level | : LC | W | %Solids | | | : N/A | | | |
| Extrac | Extract Volume (MeOH) : N/A | | | Injection | Volume | : N/A | | | |
| | | | | • | | | | | |
| | | | | ug/L | | | | | |
| CAS NO. | Parameter | | Result | ts RL | MDL | Qualifier | | | |
| | | | | | | | | | |
| 120-82-1 | 1,2,4-Trichlor | obenzene | ND | 62 | 18. | U | | | |
| 108-67-8 | 1,3,5-Trimeth | ylbenzene | ND | 62 | 18. | U | | | |
| 95-63-6 | 1,2,4-Trimeth | ylbenzene | ND | 62 | 18. | U | | | |
| 79-20-9 | Methyl Aceta | te | ND | 50 | 5.8 | U | | | |
| 110-82-7 | Cyclohexane | | ND | 250 | 6.8 | U | | | |
| 76-13-1 | Freon-113 | | ND | JJ 62 | 18. | U | | | |
| | | | | | | | | | |
| 108-87-2 | Methyl cyclol | nexane | ND | 250 | 9.9 | U | | | |

MKP 11/30/2021



| Client: C&S CompaniesProject Name: SCCLab ID: L2159331-07Client ID: ESI-12-102721Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N18Sample Amount: 10 mlLevel: LOWExtract Volume (MeOH): N/A | | Lab Number : L2159331 Project Number : N30.009.001 Date Collected : 10/27/21 10:35 Date Received : 10/28/21 Date Analyzed : 11/03/21 22:39 Dilution Factor : 1 Analyst : NLK Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|---|---------------------------|--|------|------|-----------|--|
| CAS NO | Devenuetor | Desults | ug/L | MDI | Qualifian | |
| CAS NO. | Parameter | Results | KL | MDL | Quaimer | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | 0.36 | 0.50 | 0.15 | J | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | 3.6 | 2.0 | 0.65 | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



ANALY

| Client: C&S CompaniesProject Name: SCCLab ID: L2159331-07Client ID: ESI-12-102721Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N18Sample Amount: 10 mlLevel: LOWExtract Volume (MeOH): N/A | | | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume GC Colur %Solids Injection | ber umber ected eived lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/27/21 10:35 : 10/28/21 : 11/03/21 22:39 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|---|-----------------------------|--------|---------|--|---|--|--|
| CAS NO. | Parameter | | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | | ND | 0.50 | 0.18 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.6 UJ | 5.8 | 5.0 | 1.5 | | |
| 75-15-0 | Carbon disulfide | | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | | ND | 2.5 | 0.70 | U | |


| Client | : C&S Companies | | Lab Num | ber | : L2159331 | |
|---|---|--|--------------------------------|--------------------------------------|----------------------------|--|
| Project N | lame : SCC | | Project N | umber | : N30.009.001 | |
| Lab ID | : L2159331-07 | | Date Colle | ected | : 10/27/21 10:35 | |
| Client ID | : ESI-12-102721 | | Date Rec | eived | : 10/28/21 | |
| Sample L | Location : FALCONER, NY | | Date Ana | lyzed | : 11/03/21 22:39 | |
| Sample I | Matrix : WATER | | Dilution F | actor | : 1 | |
| Analytica | al Method : 1.8260C | | Analyst | | : NLK | |
| Lab File | ID : V08211103N18 | | Instrumer | nt ID | : VOA108 | |
| Sample / | Amount : 10 ml | | GC Colur | nn | : RTX-502.2 | |
| Level | : LOW | | %Solids | | | |
| Extract V | Extract Volume (MeOH) : N/A Injection | | Injection V | Volume | : N/A | |
| | | | • | | | |
| | | | ug/L | | | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| | | | | | | |
| | | | | | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U | |
| 120-82-1 108-67-8 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene | ND | 2.5 2.5 | 0.70 | UU | |
| 120-82-1 108-67-8 95-63-6 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene | ND ND ND | 2.5 2.5 2.5 | 0.70 0.70 0.70 | U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate | ND ND ND ND | 2.5 2.5 2.5 2.0 | 0.70 0.70 0.70 0.23 | U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane | ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 | 0.70 0.70 0.70 0.23 0.27 | U U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane Freon-113 | ND ND | 2.5 2.5 2.0 10 2.5 | 0.70 0.70 0.23 0.27 0.70 | U U U U U U | |

MKP 11/30/2021



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (I | : C&S Companies : SCC : L2159331-08 : ESI-11-102721 : FALCONER, NY : WATER d : 1,8260C : V08211103N19 : 10 ml : LOW MeOH) : N/A | L F C C 4 I C 9 I | Lab Numbe Project Num Date Collec Date Rece Date Analy Dilution Fa Analyst Instrument GC Column %Solids Njection Ve | er mber cted ived zed ctor ID n | : L2159331 : N30.009.001 : 10/27/21 11:15 : 10/28/21 : 11/03/21 22:59 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|---|---|---|--|--|--|
| 040.00 | Demonster | Desults | ug/L | MDI | Qualifian | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | 0.38 | 0.50 | 0.15 | J | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | 3.1 | 2.0 | 0.65 | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (M | : C&S Companies : SCC : L2159331-08 : ESI-11-102721 : FALCONER, NY : WATER : 1,8260C : V08211103N19 : 10 ml : LOW MeOH) : N/A | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume GC Colu %Solids Injection | ber umber lected eived lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/27/21 11:15 : 10/28/21 : 11/03/21 22:59 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|---|----------|---|--|--|--|
| CASNO | Paramotor | Posulte | ug/L | MDI | Qualifier | |
| CAS NO. | | nesuits | nL | MDL | Quaimer | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 7.8 UJ 🗾 | 5.0 | 1.5 | | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U | |



| | Client | : C&S Companies | L | .ab Number | : | L2159331 | |
|---------|-----------------------------|------------------------|---------------|-----------------|------|----------------|--|
| | Project Name | : SCC | F | Project Numbe | er : | N30.009.001 | |
| | Lab ID | : L2159331-08 | [| Date Collected | 1 : | 10/27/21 11:15 | |
| | Client ID | : ESI-11-102721 | Γ | Date Received | 1 : | 10/28/21 | |
| | Sample Location | : FALCONER, NY | Γ | Date Analyzed | I : | 11/03/21 22:59 | |
| | Sample Matrix | : WATER | ſ | Dilution Factor | • : | : 1 | |
| | Analytical Method | : 1,8260C | | Analyst | : | NLK | |
| | Lab File ID | : V08211103N19 | Instrument ID | | | VOA108 | |
| | Sample Amount | :10 ml | (| GC Column | : | RTX-502.2 | |
| | Level | : LOW | %Solids | | | N/A | |
| | Extract Volume (MeOH) : N/A | | I | njection Volur | ne : | N/A | |
| | | | | | | | |
| | | | | ug/L | | | |
| CAS NO | 0. | Parameter | Results | RL MD | Ē | Qualifier | |
| | | | | | | | |
| 120-82- | -1 | 1,2,4-Trichlorobenzene | ND | 2.5 0. | .70 | U | |
| 108-67- | -8 | 1,3,5-Trimethylbenzene | ND | 2.5 0 | .70 | U | |
| 95-63-6 | ; | 1,2,4-Trimethylbenzene | ND | 2.5 0 | .70 | U | |
| 79-20-9 |) | Methyl Acetate | ND | 2.0 0 | .23 | U | |
| 110-82- | -7 | Cyclohexane | ND | 10 0. | .27 | U | |
| 76-13-1 | | Freon-113 | ND UJ | 2.5 0. | .70 | U | |
| 108-87- | -2 | Methyl cyclohexane | ND | 10 0. | .40 | U | |
| | | | | | | | |

MKP 11/30/2021



| Project Name:SCCLab ID:L2159331-09Client ID:ESI-10-102721Sample Location:FALCONER, NYSample Matrix:WATERAnalytical Method:1,8260CLab File ID:V08211103N20Sample Amount:10 mlLevel:LOWExtract Volume (MeOH):N/A | | | : L2159331 : N30.009.001 : 10/27/21 12:00 : 10/28/21 : 11/03/21 23:19 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A |) | | |
|--|---------------------------|---------|--|------|-----------|--|
| CAS NO | Devemeter | Paquita | ug/L | MDI | Qualifier | |
| CAS NO. | Parameter | Results | RL | MDL | Quaimer | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | 0.76 | 2.0 | 0.65 | J | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (M | : C&S Companies : SCC : L2159331-09 : ESI-10-102721 : FALCONER, NY : WATER : 1,8260C : V08211103N20 : 10 ml : LOW MeOH) : N/A | | | Lab Numl Project N Date Colle Date Rec Date Ana Dilution F Analyst Instrumer GC Colum %Solids Injection N | ber umber ected eived lyzed actor ht ID nn | : L2159331 : N30.009.001 : 10/27/21 12:00 : 10/28/21 : 11/03/21 23:19 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|---|------------|---------|---|---|--|--|
| CAS NO. | Parameter | - | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | ١ | ۱D | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | Ν | ١D | 0.50 | 0.18 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | ١ | ۱D | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | ٦ | ۱D | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ١D | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | Ν | ۱D | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | ١ | ۱D | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | 1 | ۱D | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | Ν | ١D | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | 1 | ۱D | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | Ν | ۱D | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.0 UJ 🛛 🧳 | .0 | 5.0 | 1.5 | J | |
| 75-15-0 | Carbon disulfide | Ν | ۱D | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | Ν | UJ DI | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | Ν | ۱D UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | Ν | ۱D | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | Ν | 1D | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | Ν | 1D | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | Ν | 1D | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | Ν | ۱D | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Ν | 1D | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | ١ | ۱D | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | ١ | ۱D | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | ١ | ۱D | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | N | ۱D | 2.5 | 0.70 | U | |



| Chern | [| : Cas Companies | | Lab Num | ber | : L2159331 | |
|---|--|---|----------------------------------|---------------------------------------|--|----------------------------|--|
| Projec | ct Name | : SCC | | Project N | umber | : N30.009.001 | |
| Lab II | כ | : L2159331-09 | | Date Coll | ected | : 10/27/21 12:00 | |
| Client | ID | : ESI-10-102721 | | Date Rec | eived | : 10/28/21 | |
| Samp | le Location | : FALCONER, NY | | Date Ana | lyzed | : 11/03/21 23:19 | |
| Samp | ole Matrix | : WATER | | Dilution F | actor | : 1 | |
| Analy | tical Method | : 1,8260C | | Analyst | | : NLK | |
| Lab F | ile ID | : V08211103N20 | Instrument ID | | | : VOA108 | |
| Samp | ole Amount | :10 ml | GC Column | | | : RTX-502.2 | |
| Level | | : LOW | %Solids | | | : N/A | |
| Extract Volume (MeOH) : N/A | | | Injection V | Volume | : N/A | | |
| | | | | ua/L | | | |
| | Paran | neter | Besults | RL | MDL | Qualifier | |
| CAS NO. | i ai ai | | | | | | |
| 0A3 NO. | T al al | | | | | | |
| 120-82-1 | 1,2,4- | Trichlorobenzene | ND | 2.5 | 0.70 | U | |
| 120-82-1 108-67-8 | 1,2,4- 1,3,5- | Trichlorobenzene Trimethylbenzene | ND | 2.5 | 0.70 0.70 | UU | |
| 120-82-1 108-67-8 95-63-6 | 1,2,4- 1,3,5- 1,2,4- | Trichlorobenzene Trimethylbenzene Trimethylbenzene | ND ND ND | 2.5 2.5 2.5 | 0.70 0.70 0.70 | U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 | 1,2,4- 1,3,5- 1,2,4- Methy | Trichlorobenzene Trimethylbenzene Trimethylbenzene I Acetate | ND ND ND ND | 2.5 2.5 2.5 2.0 | 0.70 0.70 0.70 0.23 | U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | 1,2,4- 1,3,5- 1,2,4- Methy Cyclol | Trichlorobenzene Trimethylbenzene Trimethylbenzene I Acetate hexane | ND ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 | 0.70 0.70 0.70 0.23 0.27 | U U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | 1,2,4- 1,3,5- 1,2,4- Methy Cyclol Freon | Trichlorobenzene Trimethylbenzene I Acetate hexane -113 | ND ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 2.5 | 0.70 0.70 0.70 0.23 0.27 0.70 | U U U U U U | |

MKP 11/30/2021



| Project Name: SCCLab ID: L2159331-10Client ID: ESI-1-102721Sample Location: FALCONER, NYSample Matrix: WATERAnalytical Method: 1,8260CLab File ID: V08211103N21Sample Amount: 10 mlLevel: LOWExtract Volume (MeOH): N/A | | Project Number : N30.009.001 Date Collected : 10/27/21 13:15 Date Received : 10/28/21 Date Analyzed : 11/03/21 23:40 Dilution Factor : 1 Analyst : NLK Instrument ID : VOA108 GC Column : RTX-502.2 %Solids : N/A Injection Volume : N/A | | | | |
|---|---------------------------|---|------|------|-----------|--|
| | Devenueter | Desults | ug/L | | Qualifier | |
| CAS NO. | Parameter | Results | KL I | MDL | Quaimer | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (M | : C&S Companies : SCC : L2159331-10 : ESI-1-102721 : FALCONER, NY : WATER : 1,8260C : V08211103N21 : 10 ml : LOW MeOH) : N/A | | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume GC Colum %Solids Injection | ber umber ected eived lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/27/21 13:15 : 10/28/21 : 11/03/21 23:40 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|--|----------|---------|--|---|--|--|
| CAS NO. | Parameter | | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | | 7.8 | 0.50 | 0.18 | | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.0 UJ 🖌 | 2.9 | 5.0 | 1.5 | J | |
| 75-15-0 | Carbon disulfide | | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | | ND | 2.5 | 0.70 | U | |



| Dreis et Marrie | . Cas companies | | | Der | - N20 000 001 | |
|--|---|--|---------------------------------------|---|--|--|
| | | | Project N | umper | : N30.009.001 | |
| | E2159331-10 | | | | : 10/27/21 13:15 | |
| | : ESI-1-102/21 | | | eivea | : 10/28/21 | |
| Sample Loca | tion : FALCONER, NY | | Date Analyzed | | | |
| Sample Matri | x : WATER | | : 1 | | | |
| Analytical Me | thod : 1,8260C | | Analyst | | : NLK | |
| Lab File ID | : V08211103N21 | I | Instrume | nt ID | : VOA108 | |
| Sample Amou | unt : 10 ml | | GC Colui | mn | : RTX-502.2 | |
| Level | : LOW | %Solids | | | : N/A | |
| Extract Volume (MeOH) : N/A | | I | Injection | Volume | : N/A | |
| | | | ug/L | | | |
| | | | | | o | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| CAS NO. 120-82-1 | Parameter 1,2,4-Trichlorobenzene | Results ND | RL 2.5 | 0.70 | U | |
| CAS NO. 120-82-1 108-67-8 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene | ND ND | RL 2.5 2.5 | 0.70 | U U U | |
| 120-82-1 108-67-8 95-63-6 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene | ND ND ND | RL 2.5 2.5 2.5 | 0.70 0.70 0.70 | Qualifier U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate | ND ND ND ND ND | RL 2.5 2.5 2.5 2.5 2.0 | 0.70 0.70 0.70 0.23 | Qualifier U U U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane | Results ND ND ND ND ND ND ND ND ND | RL 2.5 2.5 2.5 2.0 10 | MDL 0.70 0.70 0.70 0.23 0.27 | Qualitier U U U U U U | |
| CAS NO. 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | Parameter 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane Freon-113 | Results ND ND ND ND ND ND ND | RL 2.5 2.5 2.0 10 2.5 | MDL 0.70 0.70 0.70 0.23 0.27 0.70 | Qualifier U U U U U U U | |

MKP 11/30/2021



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (I | : C&S Companies : SCC : L2159331-11 : ESI-6-102721 : FALCONER, NY : WATER d : 1,8260C : V08211103N22 : 10 ml : LOW MeOH) : N/A | L F C C J J C O 9 I | ab Numbo Project Nu Date Colle Date Rece Date Analy Dilution Fa Analyst nstrument GC Colum %Solids njection V | er mber cted ived rzed ctor ID n | : L2159331 : N30.009.001 : 10/27/21 13:45 : 10/28/21 : 11/04/21 00:00 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|--|--|---|---|--|--|
| | Parameter | Besults | ug/L Bl | MDI | Qualifier | |
| | Farameter | nesuits | nL | | Guainei | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | 0.37 | 0.50 | 0.15 | J | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | 0.86 | 0.50 | 0.18 | | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | 2.6 | 2.0 | 0.65 | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID | : C&S Companies : SCC : L2159331-11 : ESI-6-102721 : FALCONER, NY : WATER I : 1,8260C : V08211103N22 | | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrume | ber umber ected eived lyzed actor | : L2159331 : N30.009.001 : 10/27/21 13:45 : 10/28/21 : 11/04/21 00:00 : 1 : NLK : VOA108 | |
|---|---|--------|---------|--|--|---|--|
| Sample Amount | : 10 ml | | | | nn | : RTX-502.2 | |
| Levei Extract Volume (N | : LOW MeOH) : N/A | | | %50110s | Volume | : N/A : N/A | |
| (| | | | | | | |
| | Parameter | | Populto | ug/L | MDI | Qualifier | |
| CA3 NO. | raiametei | | nesuits | nL | MDL | Quaimer | |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | | ND | 0.50 | 0.18 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 5.0 UJ | 4. | 5.0 | 1.5 | J | |
| 75-15-0 | Carbon disulfide | | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | | ND | 2.5 | 0.70 | U | |



| Client | : C&S Companies | | Lab Num | ber | : L2159331 | |
|---|---|--|---------------------------------------|--|---------------------------------|--|
| Project Na | ame : SCC | | Project N | umber | : N30.009.001 | |
| Lab ID | : L2159331-11 | | Date Col | lected | : 10/27/21 13:45 | |
| Client ID | : ESI-6-102721 | | Date Rec | eived | : 10/28/21 | |
| Sample L | ocation : FALCONER, NY | | Date Ana | lyzed | : 11/04/21 00:00 | |
| Sample M | latrix : WATER | | Dilution F | actor | : 1 | |
| Analytical | Method : 1,8260C | | Analyst | | | |
| Lab File II | D : V08211103N22 | | Instrume | nt ID | : VOA108 | |
| Sample A | mount : 10 ml | | GC Colu | mn | : RTX-502.2 | |
| Level | : LOW | | %Solids | | : N/A | |
| Extract Vo | olume (MeOH) : N/A | | Injection | Volume | : N/A | |
| | | | - | | | |
| | | | ug/L | | | |
| CAS NO. | Parameter | Results | RI | MDL | Qualifier | |
| | i uluncici | ricouito | | | | |
| | - ununcter | nesuis | | | | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U | |
| 120-82-1 108-67-8 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene | ND | 2.5 | 0.70 0.70 | UUU | |
| 120-82-1 108-67-8 95-63-6 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene | ND ND ND | 2.5 2.5 2.5 | 0.70 0.70 0.70 | U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate | ND ND ND ND | 2.5 2.5 2.5 2.0 | 0.70 0.70 0.70 0.23 | U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane | ND ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 | 0.70 0.70 0.70 0.23 0.27 | U U U U U U | |
| 120-82-1 108-67-8 95-63-6 79-20-9 110-82-7 76-13-1 | 1,2,4-Trichlorobenzene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl Acetate Cyclohexane Freon-113 | ND ND ND ND ND ND ND | 2.5 2.5 2.5 2.0 10 2.5 | 0.70 0.70 0.70 0.23 0.27 0.70 | U U U U U U U | |

MKP 11/30/2021



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (I | : C&S Companies : SCC : L2159331-12 : ESI-2-102721 : FALCONER, NY : WATER d : 1,8260C : V08211103N23 : 10 ml : LOW MeOH) : N/A | L P D D U U U U U U U U U | ab Number Project Number Pate Collected Pate Received Pate Analyzed Pate | : L2159331 : N30.009.001 : 10/27/21 14:45 : 10/28/21 : 11/04/21 00:20 : 1 : NLK : VOA108 : RTX-502.2 : N/A = : N/A |
|--|--|---|--|--|
| 040.V0 | P. second second | . | ug/L | |
| CAS NO. | Parameter | Results | RL MDL | Qualifier |
| 75-09-2 | Methylene chloride | ND | 2.5 0.70 |) U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 0.70 |) U |
| 67-66-3 | Chloroform | ND | 2.5 0.70 |) U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 0.13 | 3 U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 0.14 | L U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 0.15 | 5 U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 0.50 |) U |
| 127-18-4 | Tetrachloroethene | 0.48 | 0.50 0.18 | 3 J |
| 108-90-7 | Chlorobenzene | ND | 2.5 0.70 |) U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 0.70 |) U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 0.13 | 3 U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 0.70 |) U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 0.19 |) U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 0.16 | 6 U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 0.14 | ł U |
| 75-25-2 | Bromoform | ND | 2.0 0.65 | 5 U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 0.17 | 7 U |
| 71-43-2 | Benzene | ND | 0.50 0.16 | 5 U |
| 108-88-3 | Toluene | ND | 2.5 0.70 |) U |
| 100-41-4 | Ethylbenzene | ND | 2.5 0.70 |) U |
| 74-87-3 | Chloromethane | ND | 2.5 0.70 |) U |
| 74-83-9 | Bromomethane | ND | 2.5 0.70 |) U |
| 75-01-4 | Vinyl chloride | ND | 1.0 0.07 | 7 U |
| 75-00-3 | Chloroethane | ND UJ | 2.5 0.70 |) U |
| 75-35-4 | 1,1-Dichloroethene | 0.27 | 0.50 0.17 | 7 J |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (M | : C&S Companies : SCC : L2159331-12 : ESI-2-102721 : FALCONER, NY : WATER : 1,8260C : V08211103N23 : 10 ml : LOW MeOH) : N/A | | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrumer GC Colur %Solids Injection | ber umber ected lyzed actor nt ID nn Volume | : L2159331 : N30.009.001 : 10/27/21 14:45 : 10/28/21 : 11/04/21 00:20 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|--|----------|---------|---|--|--|--|
| CAS NO. | Parameter | | Results | ug/L RL | MDL | Qualifier | |
| | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | | 5.0 | 2.5 | 0.70 | | |
| 79-01-6 | Trichloroethene | | 200 | 0.50 | 0.18 | E | |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | | 180 | 2.5 | 0.70 | | |
| 100-42-5 | Styrene | | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 8.6 UJ 🖡 | 8.0 | 5.0 | 1.5 | | |
| 75-15-0 | Carbon disulfide | | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | | ND | 2.5 | 0.70 | U | |



MKP 11/30/2021



| Client | : C&S Companies | | Lab Num | nber | : L2159331 | |
|-------------------|-----------------|---------|------------|---------|------------------|--|
| Project Name | : SCC | | Project N | lumber | : N30.009.001 | |
| Lab ID | : L2159331-12D | | Date Co | llected | : 10/27/21 14:45 | |
| Client ID | : ESI-2-102721 | | Date Re | ceived | : 10/28/21 | |
| Sample Location | : FALCONER, NY | | Date Ana | alyzed | : 11/04/21 13:09 | |
| Sample Matrix | : WATER | | Dilution I | Factor | : 5 | |
| Analytical Method | : 1,8260C | | Analyst | | : PD | |
| Lab File ID | : V08211104A19 | | Instrume | nt ID | : VOA108 | |
| Sample Amount | : 2 ml | | GC Colu | mn | : RTX-502.2 | |
| Level | : LOW | | %Solids | | : N/A | |
| Extract Volume (M | leOH):N/A | | Injection | Volume | : N/A | |
| | | | ug/L | | | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| | | | | | | |
| 79-01-6 | Trichloroethene | 190 | 2.5 | 0.88 | | |



| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (I | : C&S Companies : SCC : L2159331-13 : TRIP-BLANK-102721 : FALCONER, NY : WATER : 1,8260C : V08211103N13 : 10 ml : LOW MeOH) : N/A | | Lab Number Project Num Date Collect Date Receiv Date Analyz Dilution Fac Analyst nstrument I GC Column %Solids njection Vo | r Iber Ied Ied Ied Ior D | : L2159331 : N30.009.001 : 10/27/21 15:00 : 10/28/21 : 11/03/21 20:57 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|---|---|--|--|--|--|
| | Devenueter | Desults | ug/L | | Qualifian | |
| CAS NO. | Parameter | Results | RL N | NDL | Qualifier | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U | |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U | |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U | |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U | |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U | |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U | |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U | |
| 75-00-3 | Chloroethane | ND UJ | 2.5 | 0.70 | U | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U | |





| Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount Level Extract Volume (N | : C&S Companies : SCC : L2159331-13 : TRIP-BLANK-102721 : FALCONER, NY : WATER : 1,8260C : V08211103N13 : 10 ml : LOW MeOH) : N/A | | Lab Num Project N Date Coll Date Rec Date Ana Dilution F Analyst Instrumer GC Colur %Solids Injection | ber umber ected lyzed iactor nt ID nn | : L2159331 : N30.009.001 : 10/27/21 15:00 : 10/28/21 : 11/03/21 20:57 : 1 : NLK : VOA108 : RTX-502.2 : N/A : N/A | |
|--|---|---------|---|---|--|--|
| | Devenueder | Beaulte | ug/L | MDI | Qualifier | |
| CAS NO. | Parameter | Results | RL | MDL | Qualifier | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U | |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U | |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U | |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U | |
| 67-64-1 | Acetone | 3.1 J | 5.0 | 1.5 | J | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U | |
| 78-93-3 | 2-Butanone | ND UJ | 5.0 | 1.9 | U | |
| 108-10-1 | 4-Methyl-2-pentanone | ND UJ | 5.0 | 1.0 | U | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U | |
| 104-51-8 | n-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 135-98-8 | sec-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 98-06-6 | tert-Butylbenzene | ND | 2.5 | 0.70 | U | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U | |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U | |
| 99-87-6 | p-Isopropyltoluene | ND | 2.5 | 0.70 | U | |
| 91-20-3 | Naphthalene | ND | 2.5 | 0.70 | U | |
| 103-65-1 | n-Propylbenzene | ND | 2.5 | 0.70 | U | |



| | Client | : C&S Companies | I | _ab Number | | : L2159331 | |
|---------|-------------------|------------------------|---------|-----------------|-----|------------------|--|
| | Project Name | : SCC | I | Project Numbe | er | : N30.009.001 | |
| | Lab ID | : L2159331-13 | I | Date Collected | 1 | : 10/27/21 15:00 | |
| | Client ID | : TRIP-BLANK-102721 | I | Date Received | 1 | : 10/28/21 | |
| | Sample Location | : FALCONER, NY | I | Date Analyzed | I I | : 11/03/21 20:57 | |
| | Sample Matrix | : WATER | 1 | Dilution Factor | • | : 1 | |
| | Analytical Method | : 1,8260C | | Analyst | | : NLK | |
| | Lab File ID | : V08211103N13 | I | nstrument ID | | : VOA108 | |
| | Sample Amount | : 10 ml | (| GC Column | | : RTX-502.2 | |
| | Level | : LOW | c | %Solids | | : N/A | |
| | Extract Volume (N | ſeOH) : N/A | I | njection Volur | ne | : N/A | |
| | | | | | | | |
| | | | | ug/L | _ | | |
| CAS N | 0. | Parameter | Results | RL MD | L | Qualifier | |
| | | | | | | | |
| 120-82 | -1 | 1,2,4-Trichlorobenzene | ND | 2.5 0 | .70 | U | |
| 108-67 | -8 | 1,3,5-Trimethylbenzene | ND | 2.5 0 | .70 | U | |
| 95-63-6 | 6 | 1,2,4-Trimethylbenzene | ND | 2.5 0 | .70 | U | |
| 79-20-9 | 9 | Methyl Acetate | ND | 2.0 0 | .23 | U | |
| 110-82 | -7 | Cyclohexane | ND | 10 0 | .27 | U | |
| 76-13-1 | 1 | Freon-113 | ND UJ | 2.5 0 | .70 | U | |
| 108-87 | -2 | Methyl cyclohexane | ND | 10 0 | .40 | U | |
| | | | | | | | |

MKP 11/30/2021



Appendix B

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Laboratory QC Documentation

Laboratory Control Sample Summary Form 3 Volatiles

| Client Project Name Matrix | : C&S Comp : SCC : WATER | oanies | Lab Number : L2159331 Project Number : N30.009.001 | | | | | | | |
|----------------------------------|--------------------------------|--------------------------|---|-------------|----------------|--------------------|----------------|-----------|-------|--|
| LCS Sample ID | : WG156718 | 32-3 Analy 32-4 Analy | vsis Date: 11/ | 04/21 07:03 | File ID : | V082111 V082111 | 04A01 04A02 | | | |
| | | | , | | | | | | | |
| | Laboratory | y Control Sam | nple | Laborator | y Control Dupl | icate | 000 | Decessory | | |
| Parameter | (ug/l) | (ug/l) | 76 N | (ug/l) | (ug/l) | 70N | | Limits | Limit | |
| | 10 | | | | | | | =0.400 | | |
| Irichioroethene | 10 | 9.4 | 94 | 10 | 9.6 | 96 | 2 | 70-130 | 20 | |
| 1,2-Dichlorobenzene | 10 | 9.4 | 94 | 10 | 9.7 | 97 | 3 | 70-130 | 20 | |
| 1,3-Dichlorobenzene | 10 | 9.7 | 97 | 10 | 9.9 | 99 | 2 | 70-130 | 20 | |
| 1,4-Dichlorobenzene | 10 | 9.5 | 95 | 10 | 9.9 | 99 | 4 | 70-130 | 20 | |
| Methyl tert butyl ether | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 63-130 | 20 | |
| p/m-Xylene | 20 | 20 | 100 | 20 | 20 | 100 | 0 | 70-130 | 20 | |
| o-Xylene | 20 | 19 | 95 | 20 | 20 | 100 | 5 | 70-130 | 20 | |
| cis-1,2-Dichloroethene | 10 | 9.6 | 96 | 10 | 9.0 | 90 | 6 | 70-130 | 20 | |
| Styrene | 20 | 21 | 105 | 20 | 21 | 105 | 0 | 70-130 | 20 | |
| Dichlorodifluoromethane | 10 | 8.8 | 88 | 10 | 8.8 | 88 | 0 | 36-147 | 20 | |
| Acetone | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 58-148 | 20 | |
| Carbon disulfide | 10 | 10 | 100 | 10 | 12 | 120 | 18 | 51-130 | 20 | |
| 2-Butanone | 10 | 8.3 | 83 | 10 | 8.1 | 81 | 2 | 63-138 | 20 | |
| 4-Methyl-2-pentanone | 10 | 7.0 | 70 | 10 | 7.6 | 76 | 8 | 59-130 | 20 | |
| 2-Hexanone | 10 | 7.2 | 72 | 10 | 7.2 | 72 | 0 | 57-130 | 20 | |
| 1,2-Dibromoethane | 10 | 9.0 | 90 | 10 | 9.1 | 91 | 1 | 70-130 | 20 | |
| n-Butylbenzene | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 53-136 | 20 | |
| sec-Butylbenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 | |
| tert-Butylbenzene | 10 | 9.5 | 95 | 10 | 9.9 | 99 | 4 | 70-130 | 20 | |
| 1,2-Dibromo-3-chloropropane | 10 | 7.3 | 73 | 10 | 8.2 | 82 | 12 | 41-144 | 20 | |
| Isopropylbenzene | 10 | 9.7 | 97 | 10 | 10 | 100 | 3 | 70-130 | 20 | |
| p-Isopropyltoluene | 10 | 9.8 | 98 | 10 | 10 | 100 | 2 | 70-130 | 20 | |
| Naphthalene | 10 | 6.6 | 66 0 | 10 | 7.5 | 75 | 13 | 70-130 | 20 | |
| n-Propylbenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 69-130 | 20 | |
| 1,2,4-Trichlorobenzene | 10 | 8.3 | 83 | 10 | 9.1 | 91 | 9 | 70-130 | 20 | |
| 1,3,5-Trimethylbenzene | 10 | 9.6 | 96 | 10 | 9.9 | 99 | 3 | 64-130 | 20 | |



Matrix Spike Sample Summary Form 3 Volatiles

| Client Project Name Client Sample ID Lab Sample ID Matrix Spike Matrix Spike Dup | : C&S Companies : SCC : ESI-3-102621 : L2159331-01 : WG1567192-6 : WG1567192-7 | | | | Lab Nur Project I Matrix Analysis MS Ana MSD An | nber : Number : Date : Iysis Date : aalysis Date : | L215933 N30.009 WATER 11/03/21 11/04/21 11/04/21 | 1 .001 21:18 01:01 01:21 | | |
|---|---|-----------|------------|-------|--|--|---|--------------------------------------|----------|-------|
| | | Matrix Sp | ike Sample | | Matrix Sp | ike Duplicate | | | | |
| | Sample | Spike | Spike | | Spike | Spike | | | | |
| | Conc. | Added | Conc. | %R | Added | Conc. | % R | RPD | Recovery | RPD |
| Parameter | (ug/l) | (ug/l) | (ug/l) | | (ug/l) | (ug/l) | | | Limits | Limit |
| | | | | | | | | | | |
| Vinyl chloride | ND | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 55-140 | 20 |
| Chloroethane | ND | 10 | 14 | 140 C | 10 | 13 | 130 | 7 | 55-138 | 20 |
| 1,1-Dichloroethene | ND | 10 | 11 | 110 | 10 | 12 | 120 | 9 | 61-145 | 20 |
| trans-1,2-Dichloroethene | ND | 10 | 12 | 120 | 10 | 12 | 120 | 0 | 70-130 | 20 |
| Trichloroethene | 0.66 | 10 | 11 | 103 | 10 | 11 | 103 | 0 | 70-130 | 20 |
| 1,2-Dichlorobenzene | ND | 10 | 8.0 | 80 | 10 | 8.5 | 85 | 6 | 70-130 | 20 |
| 1,3-Dichlorobenzene | ND | 10 | 7.9 | 79 | 10 | 8.6 | 86 | 8 | 70-130 | 20 |
| 1,4-Dichlorobenzene | ND | 10 | 7.8 | 78 | 10 | 8.4 | 84 | 7 | 70-130 | 20 |
| Methyl tert butyl ether | ND | 10 | 9.9 | 99 | 10 | 10 | 100 | 1 | 63-130 | 20 |
| p/m-Xylene | ND | 20 | 19 | 95 | 20 | 20 | 100 | 5 | 70-130 | 20 |
| o-Xylene | ND | 20 | 19 | 95 | 20 | 20 | 100 | 5 | 70-130 | 20 |
| cis-1,2-Dichloroethene | ND | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Styrene | ND | 20 | 19 | 95 | 20 | 20 | 100 | 5 | 70-130 | 20 |
| Dichlorodifluoromethane | ND | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 36-147 | 20 |
| Acetone | 5.5 | 10 | 14 | 85 | 10 | 11 | 55 0 | 24 Q | 58-148 | 20 |
| Carbon disulfide | ND | 10 | 12 | 120 | 10 | 12 | 120 | 0 | 51-130 | 20 |
| 2-Butanone | ND | 10 | 8.8 | 88 | 10 | 10 | 100 | 13 | 63-138 | 20 |
| 4-Methyl-2-pentanone | ND | 10 | 7.5 | 75 | 10 | 7.3 | 73 | 3 | 59-130 | 20 |
| 2-Hexanone | ND | 10 | 7.1 | 71 | 10 | 7.6 | 76 | 7 | 57-130 | 20 |
| 1,2-Dibromoethane | ND | 10 | 9.5 | 95 | 10 | 9.5 | 95 | 0 | 70-130 | 20 |
| n-Butylbenzene | ND | 10 | 7.9 | 79 | 10 | 8.4 | 84 | 6 | 53-136 | 20 |
| sec-Butylbenzene | ND | 10 | 9.1 | 91 | 10 | 9.7 | 97 | 6 | 70-130 | 20 |



Matrix Spike Sample Summary Form 3 Volatiles

| Client Project Name Client Sample ID Lab Sample ID Matrix Spike Matrix Spike Dup | : C&S Companies L Name : SCC P Sample ID : ESI-3-102621 M mple ID : L2159331-01 A Spike : WG1567192-6 M Spike Dup : WG1567192-7 M | | Lab Nun Project N Matrix Analysis MS Anal MSD An | nber Number Date lysis Date alysis Date | : L21593 : N30.009 : WATER : 11/03/2 : 11/04/2 : 11/04/2 | 31 9.001 1 21:18 1 01:01 1 01:21 | | | | |
|---|---|-----------|---|---|---|--|------|-----|----------|-------|
| | | Matrix Sp | ike Sample | | Matrix Spi | ke Duplicate | | | | |
| | Sample | Spike | Spike | | Spike | Spike | | | | |
| | Conc. | Added | Conc. | % R | Added | Conc. | %R | RPD | Recovery | RPD |
| Parameter | (ug/l) | (ug/l) | (ug/l) | | (ug/l) | (ug/l) | | | Limits | Limit |
| tert-Butylbenzene | ND | 10 | 9.1 | 91 | 10 | 9.6 | 96 | 5 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 7.6 | 76 | 10 | 7.9 | 79 | 4 | 41-144 | 20 |
| Isopropylbenzene | ND | 10 | 9.4 | 94 | 10 | 9.9 | 99 | 5 | 70-130 | 20 |
| p-Isopropyltoluene | ND | 10 | 8.6 | 86 | 10 | 9.3 | 93 | 8 | 70-130 | 20 |
| Naphthalene | ND | 10 | 4.7 | 47 C | 10 | 5.2 | 52 Q | 10 | 70-130 | 20 |
| n-Propylbenzene | ND | 10 | 8.9 | 89 | 10 | 9.4 | 94 | 5 | 69-130 | 20 |
| 1,2,4-Trichlorobenzene | ND | 10 | 5.5 | 55 Q | 10 | 5.8 | 58 Q | 5 | 70-130 | 20 |
| 1,3,5-Trimethylbenzene | ND | 10 | 8.6 | 86 | 10 | 9.4 | 94 | 9 | 64-130 | 20 |
| 1,2,4-Trimethylbenzene | ND | 10 | 8.3 | 83 | 10 | 9.0 | 90 | 8 | 70-130 | 20 |
| Methyl Acetate | ND | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 70-130 | 20 |
| Cyclohexane | ND | 10 | 10 | 100 | 10 | 11 | 110 | 10 | 70-130 | 20 |
| Freon-113 | ND | 10 | 12 | 120 | 10 | 13 | 130 | 8 | 70-130 | 20 |
| Methyl cyclohexane | ND | 10 | 9.0J | 90 | 10 | 9.6J | 96 | 6 | 70-130 | 20 |



Initial Calibration Summary Form 6 Volatiles

| | Cl Pi In Ca | lient roject Name strument ID alibration dates | : C&S Companies : SCC : VOA108 : 10/05/21 01:04 | 10/05 | /21 04 | 1:06 | | Lal Pro Ica | b Num bject N I Ref | iber lumbe | er | : L2159 : N30.0 : ICAL | 9331 009.001 18356 |
|-----------|----------------------|---|--|--------|---------|--------|--------|-------------------|---------------------------|---------------|---------|------------------------------|--------------------------|
| Cal: | ibrat | tion Files | | | | | | | | | | | |
| L11 | =V08 | 8211004N04.d L1 | =V08211004N06.d L2 | =V0821 | 1004N08 | 8.d L3 | 3 =V08 | 3211004 | 1N09.d | L4 = | =V08213 | L004N10. | d |
| L6 | =V08 | 8211004N11.d L8 | =V08211004N12.d L10 | =V0821 | 1004N13 | 3.d | | | | | | | |
| | | Compound | | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
| 1) | I | Fluorobenzene | | | | IS | STD | | | | | | |
| 2) | TP | Dichlorodifluo | | | 0.199 | 0.266 | 0.255 | 0.252 | 0.251 | 0.230 | 0.237 | 0.241 | 9.15 |
| 3) | ΤP | Chloromethane | | | 0.283 | 0.362 | 0.335 | 0.315 | 0.314 | 0.317 | 0.342 | 0.324 | 7.76 |
| 4) | TC | Vinyl chloride | | 0.370 | 0.249 | 0.325 | 0.302 | 0.300 | 0.304 | 0.284 | 0.293 | 0.303 | 11.35 |
| 5) | ΤP | Bromomethane | | | 0.126 | 0.137 | 0.122 | 0.129 | 0.136 | 0.132 | 0.142 | 0.132 | 5.34 |
| 6) | TP | Chloroethane | | | 0.128 | 0.168 | 0.153 | 0.140 | 0.115 | | | 0.141 | 14.78 |
| /) | TP | Trichlorofluor | | | 0.286 | 0.355 | 0.334 | 0.335 | 0.337 | 0.312 | 0.321 | 0.326 | 6.82 |
| 0) 10) | TC | 1 1-Dichloroot | | | 0.000 | 0.079 | 0.007 | 0.090 | 0.094 | 0.091 | 0.094 | 0.000 | 12.00 |
| 11) | TP | Carbon disulfide | | | 0.486 | 0.612 | 0.581 | 0.585 | 0.582 | 0.535 | 0.550 | 0.561 | 7.43 |
| 12) | TP | Freon-113 | | | 0.113 | 0.186 | 0.189 | 0.194 | 0.192 | 0.176 | 0.183 | 0.176 | 16.26 |
| 13) | TP | Iodomethane | | | | 0.034 | 0.094 | 0.149 | 0.191 | 0.187 | 0.207 | *Q | 0.9977 |
| 14) | TP | Acrolein | | | | 0.025 | 0.025 | 0.025 | 0.026 | 0.027 | 0.027 | 0.026# | 3.84 |
| 15) | TP | Methylene chlo | | | 0.196 | 0.227 | 0.215 | 0.208 | 0.204 | 0.194 | 0.198 | 0.206 | 5.71 |
| 17) | TP | Acetone | | | | 0.055 | 0.043 | 0.036 | 0.036 | 0.035 | 0.036 | 0.040# | 19.92 |
| 18) | TP | trans-1,2-Dich | | | 0.172 | 0.213 | 0.217 | 0.219 | 0.221 | 0.205 | 0.213 | 0.209 | 8.11 |
| 19) | TP | Methyl acetate | | | 0.136 | 0.108 | 0.100 | 0.095 | 0.099 | 0.097 | 0.101 | 0.105 | 13.49 |
| 20) | TP | Methyl tert butyl | ether | | 0.311 | 0.357 | 0.407 | 0.429 | 0.446 | 0.440 | 0.454 | 0.406 | 13.10 |
| 21) | TP | tert-Butyl alc | | | 0.007 | 0.010 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.011# | 16.37 |
| 22) | TP | Diisopropyl ether | | | 0.769 | 0.861 | 0.945 | 0.998 | 1.011 | 0.962 | 0.995 | 0.934 | 9.51 |
| 23) | TP | 1,1-Dichloroet | | | 0.416 | 0.505 | 0.501 | 0.498 | 0.489 | 0.457 | 0.476 | 0.477 | 6.68 |
| 24) | TP | Halothane | | | 0.132 | 0.180 | 0.182 | 0.190 | 0.194 | 0.180 | 0.188 | 0.178 | 11.76 |
| 25) | TP | Acrylonitrile | | | 0.034 | 0.067 | 0.064 | 0.061 | 0.062 | 0.061 | 0.064 | 0.059 | 19.15 |
| 26) | TP | Ethyl tert-but | | | 0.521 | 0.5/8 | 0.665 | 0.729 | 0.760 | 0.748 | 0.779 | 0.683 | 14.55 |
| 27) | TD | vinyl acetate | | | 0.341 | 0.382 | 0.454 | 0.314 | 0.542 | 0.545 | 0.50/ | 0.4/8 | 18.37 |
| 20) | TP | 2 2-Dichloropr | | | 0.209 | 0.203 | 0.204 | 0.204 | 0.271 | 0.239 | 0.271 | 0.237 | 17 88 |
| 30) | TP | Bromochloromet | | | 0.102 | 0.118 | 0.117 | 0.119 | 0.118 | 0.114 | 0.116 | 0.115 | 5.10 |
| 31) | TP | Cyclohexane | | | 0.344 | 0.439 | 0.464 | 0.493 | 0.502 | 0.458 | 0.477 | 0.454 | 11.63 |
| 32) | TC | Chloroform | | | 0.347 | 0.421 | 0.437 | 0.439 | 0.434 | 0.416 | 0.434 | 0.418 | 7.78 |
| 33) | TP | Ethyl acetate | | | 0.138 | 0.120 | 0.160 | 0.169 | 0.177 | 0.177 | 0.183 | 0.161 | 14.54 |
| 34) | TP | Carbon tetrachlor | ide | | 0.149 | 0.234 | 0.263 | 0.286 | 0.307 | 0.296 | 0.320 | *L | 0.9983 |
| 35) | TP | Tetrahydrofuran | | | | 0.058 | 0.061 | 0.061 | 0.059 | 0.057 | 0.060 | 0.059 | 2.63 |
| 36) | S | Dibromofluorometh | ane | 0.277 | 0.288 | 0.286 | 0.275 | 0.270 | 0.269 | 0.266 | 0.270 | 0.275 | 2.93 |
| 37) | TP | 1,1,1-Trichlor | | | 0.229 | 0.317 | 0.351 | 0.371 | 0.382 | 0.364 | 0.386 | 0.343 | 16.07 |
| 39) | TP | 2-Butanone | | | 0.059 | 0.063 | 0.062 | 0.074 | 0.075 | 0.074 | 0.076 | 0.069# | 10.54 |



Initial Calibration Summary Form 6 Volatiles

| | Cl Pi In Ca | lient roject Name strument ID alibration dates | : C&S Companies : SCC : VOA108 : 10/05/21 01:04 | 10/05 | /21 04 | 1:06 | | La Pro Ica | b Num oject N al Ref | nber lumbe | er | : L2159 : N30.0 : ICAL1 | 9331 109.001 18356 | |
|------------|----------------------|---|--|---------|---------|-------------|--------|------------------|----------------------------|---------------|---------|-------------------------------|--------------------------|--|
| Cal L11 | ibra =V0 | tion Files 8211004N04.d L1 | =V08211004N06.d L2 | =V08211 | L004N08 | 8.d L | 3 =V08 | 8211004 | 4N09.d | L4 : | =V0821: | 1004N10.0 | d | |
| L6 | =V0 | 8211004N11.d L8 | =V08211004N12.d L10 | =V08211 | L004N13 | 3.d | | | | | | | | |
| | | Compound | | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD | |
| 40) | TP | 1,1-Dichloropr | | | 0.209 | 0.288 | 0.302 | 0.328 | 0.332 | 0.311 | 0.327 | 0.300 | 14.32 | |
| 41) | TP | Benzene | | 1.112 | 0.716 | 0.907 | 0.940 | 0.972 | 0.969 | 0.918 | 0.951 | 0.936 | 11.66 | |
| 42) | TP | Tertiary-Amyl Met | thyl Ether | | 0.326 | 0.379 | 0.439 | 0.491 | 0.526 | 0.524 | 0.549 | 0.462 | 18.17 | |
| 43) | S | 1,2-Dichloroetha | ne-d4 | 0.280 | 0.276 | 0.283 | 0.284 | 0.283 | 0.283 | 0.283 | 0.277 | 0.281 | 1.16 | |
| 44) | ΤP | 1,2-Dichloroet | | | 0.260 | 0.302 | 0.313 | 0.315 | 0.317 | 0.305 | 0.313 | 0.303 | 6.62 | |
| 47) | ΤP | Methyl cyclohe | | | 0.226 | 0.341 | 0.350 | 0.380 | 0.393 | 0.365 | 0.378 | 0.347 | 16.30 | |
| 48) | TP | Trichloroethene | | 0.265 | 0.182 | 0.242 | 0.245 | 0.255 | 0.260 | 0.245 | 0.253 | 0.244 | 10.67 | |
| 50) | TP | Dibromomethane | | | 0.109 | 0.117 | 0.123 | 0.123 | 0.125 | 0.121 | 0.126 | 0.121 | 4.88 | |
| 51) | TC | 1,2-Dichloropr | | | 0.198 | 0.242 | 0.257 | 0.271 | 0.276 | 0.265 | 0.274 | 0.255 | 10.89 | |
| 54) | TP | Bromodichlorom | | | 0.217 | 0.247 | 0.279 | 0.300 | 0.318 | 0.313 | 0.328 | 0.286 | 14.28 | |
| 57) | TP | 1,4-Dioxane | | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 16.65 NI | |
| 58) | TP | cis-1,3-Dichlorop | propene | | 0.210 | 0.232 | 0.293 | 0.330 | 0.360 | 0.355 | 0.372 | *Q | 0.9994 | |
| 59) | Ι | Chlorobenzene-d5 | | | | I: | STD | | | | | | | |
| 60) | S | Toluene-d8 | | 1.247 | 1.238 | 1.255 | 1.272 | 1.282 | 1.272 | 1.316 | 1.296 | 1.272 | 2.03 | |
| 61) | TC | Toluene | | 0.992 | 0.624 | 0.748 | 0.796 | 0.802 | 0.792 | 0.786 | 0.790 | 0.791 | 12.68 | |
| 62) | TP | 4-Methyl-2-pen | | | | 0.058 | 0.070 | 0.073 | 0.079 | 0.079 | 0.081 | 0.073# | 11.78 | |
| 63) | ΤP | Tetrachloroethene | 9 | | 0.209 | 0.309 | 0.330 | 0.338 | 0.340 | 0.335 | 0.336 | 0.314 | 15.10 | |
| 65) | ΤP | trans-1,3-Dichlo | ropropene | | 0.159 | 0.238 | 0.294 | 0.344 | 0.375 | 0.393 | 0.399 | *Q | 0.9992 | |
| 67) | ΤP | Ethyl methacry | | | 0.115 | 0.147 | 0.205 | 0.238 | 0.257 | 0.267 | | *Q | 0.9994 | |
| 68) | TP | 1,1,2-Trichlor | | | 0.138 | 0.158 | 0.176 | 0.185 | 0.186 | 0.190 | 0.188 | 0.174 | 11.10 | |
| 69) | TP | Chlorodibromom | | | 0.140 | 0.194 | 0.229 | 0.260 | 0.275 | 0.288 | 0.294 | *Q | 0.9996 | |
| 70) | TP | 1,3-Dichloropr | | | 0.289 | 0.329 | 0.375 | 0.394 | 0.389 | 0.394 | 0.390 | 0.366 | 11.20 | |
| /1) | TP | 1,2-Dibromoethane | 2 | | 0.135 | 0.161 | 0.203 | 0.219 | 0.219 | 0.223 | 0.223 | 0.198 | 17.90 | |
| 72) | TP | 2-Hexanone | | | | 0.104 | 0.122 | 0.131 | 0.136 | 0.140 | 0.140 | 0.129 | 10.86 | |
| /3) | TP | Chlorobenzene | | 4 500 | 0.706 | 0.858 | 0.8/9 | 0.883 | 0.865 | 0.860 | 0.852 | 0.843 | /.30 | |
| 74) | TC | Ethylbenzene | | 1.589 | 1.0/0 | 1.405 | 1.522 | 1.563 | 1.516 | 1.4/0 | 1.432 | 1.446 | 11.35 | |
| 75) | TP | 1,1,1,2-Tetrac | | 0 5 0 7 | 0.148 | 0.201 | 0.246 | 0.279 | 0.295 | 0.302 | 0.307 | *Q 0 E 4 E | 0.9996 | |
| 76) | TP | p/m Xylene | | 0.587 | 0.411 | 0.522 | 0.584 | 0.592 | 0.5/1 | 0.554 | 0.538 | 0.545 | 10.89 | |
| 77) | TP | o xylene | | 0.566 | 0.3/4 | 0.515 | 0.555 | 0.562 | 0.544 | 0.528 | 0.514 | 0.520 | 11.96 | |
| 78) | TP | Styrene | | 0.725 | 0.564 | 0./89 | 0.914 | 0.936 | 0.895 | 0.8/1 | 0./86 | 0.810 | 15.23 | |
| /9) 00) | TD | 1,4-Dichiorobenze | ene-d4 | | 0 1 2 0 | 1; 0 101 | 0 200 | 0 242 | 0 264 | 0 270 | 0 260 | *0 | 0 0004 | |
| 00) 821 | TP | Isopropulbongers | | | 1 951 | 0.TOT | 2 721 | 2 252 | 2 022 | 2 727 | 2 566 | 2 501 | 13 26 | |
| 02) Q21 | c TL | 1-Bromofluorobas | 7000 | 0 005 | T.001 | 2.000 | 0 026 | 2.003 | 2.023 | 0 027 | 2.000 | 0 917 | 1 51 | |
| 03) 8/1 | ы П | BIOMOIIUUIODEN: | 26116 | 0.905 | 0.039 | 0.932 | 0.920 | 0.914 | 0.931 | 0.921 | 0.901 | 0.917 | 1.J1 7 38 | |
| 04) | TD | n-Propulberger | | | 2 260 | 3 100 | 3 202 | 3 200 | 3 110 | 2 227 | 2 000 | 3 000 | 1.30 | |
| 0J) | ΤĽ | 11-Fropyrpenzene | | | 2.369 | 3.109 | 3.283 | 3.390 | 3.416 | 3.23/ | 2.890 | 3.099 | 11.03 | |



Calibration Verification Summary Form 7 Volatiles

| Client:Project Name:Instrument ID:Lab File ID:Sample No:Channel: | C&S Companies SCC VOA108 V08211103N01 WG1567192-2 | | Lab Number Project Numb Calibration D Init. Calib. Da Init. Calib. Tir | : L2 ber : N3 ate : 11/ ate(s) : 10/ nes : 01: | 159331 0.009.001 03/21 16: 05/21 04 | 54 10/05/21 04:06 | I |
|--|---|--------|--|--|---|-------------------------|--------------|
| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 89 | 01 |
| Dichlorodifluoromethane | 0.241 | 0.241 | - | 0 | 20 | 84 | 0 |
| Chloromethane | 0.324 | 0.351 | - | -8.3 | 20 | 93 | 0 |
| Vinyl chloride | 0.303 | 0.303 | - | 0 | 20 | 89 | 0 |
| Bromomethane | 0.132 | 0.151 | - | -14.4 | 20 | 110 | 0 |
| Chloroethane | 0.141 | 0.188 | - (| -33.3* | 20 | 109 | 0 |
| Trichlorofluoromethane | 0.326 | 0.384 | - | -17.8 | 20 | 102 | 0 |
| Ethyl ether | 0.086 | 0.104 | - | -20.9* | 20 | 107 | o <30 |
| 1,1-Dichloroethene | 0.187 | 0.227 | - | -21.4* | 20 | 101 | ° <30 |
| Carbon disulfide | 0.561 | 0.667 | - | -18.9 | 20 | 102 | 0 |
| Freon-113 | 0.176 | 0.231 | - | -31.3* | 20 | 109 | 0 |
| lodomethane | 10 | 8.974 | - | 10.3 | 20 | 108 | 0 |
| Acrolein | 0.026 | 0.019* | - | 26.9* | 20 | 67 | 0 <30 |
| Methylene chloride | 0.206 | 0.243 | - | -18 | 20 | 100 | 0 |
| Acetone | 0.04 | 0.046* | - | -15 | 20 | 95 | 01 |
| trans-1,2-Dichloroethene | 0.209 | 0.251 | - | -20.1* | 20 | 102 | 0 <30 |
| Methyl acetate | 0.105 | 0.115 | - | -9.5 | 20 | 102 | 0 |
| Methyl tert-butyl ether | 0.406 | 0.459 | - | -13.1 | 20 | 100 | 0 |
| tert-Butyl alcohol | 0.011 | 0.012* | - | -9.1 | 20 | 95 | 02 |
| Diisopropyl ether | 0.934 | 0.933 | - | 0.1 | 20 | 88 | 0 |
| 1,1-Dichloroethane | 0.477 | 0.522 | - | -9.4 | 20 | 92 | 0 |
| Halothane | 0.178 | 0.189 | - | -6.2 | 20 | 92 | 0 |
| Acrylonitrile | 0.059 | 0.06 | - | -1.7 | 20 | 82 | 02 |
| Ethyl tert-butyl ether | 0.683 | 0.651 | - | 4.7 | 20 | 87 | 0 |
| Vinyl acetate | 0.478 | 0.448 | - | 6.3 | 20 | 87 | 0 |
| cis-1,2-Dichloroethene | 0.257 | 0.253 | - | 1.6 | 20 | 85 | 0 |
| 2,2-Dichloropropane | 0.291 | 0.338 | - | -16.2 | 20 | 100 | 01 |
| Bromochloromethane | 0.115 | 0.109 | - | 5.2 | 20 | 82 | 0 |
| Cyclohexane | 0.454 | 0.461 | - | -1.5 | 20 | 88 | 0 |
| Chloroform | 0.418 | 0.441 | - | -5.5 | 20 | 89 | 0 |
| Ethyl acetate | 0.161 | 0.148 | - | 8.1 | 20 | 82 | 0 |
| Carbon tetrachloride | 10 | 9.051 | - | 9.5 | 20 | 90 | 01 |
| Tetrahydrofuran | 0.059 | 0.054 | - | 8.5 | 20 | 79 | 0 |
| Dibromofluoromethane | 0.275 | 0.262 | - | 4.7 | 20 | 84 | 0 |
| 1,1,1-Trichloroethane | 0.343 | 0.365 | - | -6.4 | 20 | 92 | 0 |
| 2-Butanone | 0.069 | 0.061* | - | 11.6 | 20 | 87 | 0 |
| 1,1-Dichloropropene | 0.3 | 0.298 | - | 0.7 | 20 | 87 | 0 |
| Benzene | 0.936 | 0.921 | - | 1.6 | 20 | 87 | 0 |
| tert-Amyl methyl ether | 0.462 | 0.399 | - | 13.6 | 20 | 80 | 0 |
| 1,2-Dichloroethane-d4 | 0.281 | 0.274 | - | 2.5 | 20 | 85 | 0 |
| 1,2-Dichloroethane | 0.303 | 0.304 | - | -0.3 | 20 | 86 | 0 |
| Methyl cyclohexane | 0.347 | 0.338 | - | 2.6 | 20 | 85 | 01 |
| Trichloroethene | 0.244 | 0.244 | - | 0 | 20 | 88 | 0 |
| | | | | | | | |

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

| Client: C&S CoProject Name: SCCInstrument ID: VOA10Lab File ID: V08211Sample No: WG156Channel: | ompanies 8 104A01 7182-2 | | Lab Number Project Numbe Calibration Dat Init. Calib. Date Init. Calib. Time | : L2 r : N3 e : 11 e(s) : 10 es : 01 | 159331 0.009.001 /04/21 07: /05/21 :04 | 03 10/05/21 04:06 | l |
|--|-----------------------------------|----------|--|--|--|-------------------------|--------------|
| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
| 1,2-Dichloropropane | 0.255 | 0.247 | - | 3.1 | 20 | 84 | 0 |
| Bromodichloromethane | 0.286 | 0.255 | - | 10.8 | 20 | 80 | 01 |
| 1,4-Dioxane | 0.00097 | 0.00091* | - | 6.2 | 20 | 88 | 0 |
| cis-1,3-Dichloropropene | 10 | 8.117 | - | 18.8 | 20 | 78 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 84 | 0 |
| Toluene-d8 | 1.272 | 1.234 | - | 3 | 20 | 82 | 0 |
| Toluene | 0.791 | 0.736 | - | 7 | 20 | 78 | 0 |
| 4-Methyl-2-pentanone | 0.073 | 0.051* | - | 30.1* | 20 | 62 | 0 |
| Tetrachloroethene | 0.314 | 0.3 | - | 4.5 | 20 | 77 | 0 |
| trans-1,3-Dichloropropene | 10 | 7.92 | - | 20.8* | 20 | 76 | 0 <30 |
| Ethyl methacrylate | 10 | 7.978 | - | 20.2* | 20 | 72 | • <30 |
| 1,1,2-Trichloroethane | 0.174 | 0.161 | - | 7.5 | 20 | 77 | 0 |
| Chlorodibromomethane | 10 | 7.883 | - | 21.2* | 20 | 73 | o <30 |
| 1,3-Dichloropropane | 0.366 | 0.331 | - | 9.6 | 20 | 75 | 0 |
| 1,2-Dibromoethane | 0.198 | 0.177 | - | 10.6 | 20 | 74 | 0 |
| 2-Hexanone | 0.129 | 0.093* | - | 27.9* | 20 | 65 | • <30 |
| Chlorobenzene | 0.843 | 0.808 | - | 4.2 | 20 | 78 | 0 |
| Ethylbenzene | 1.446 | 1.386 | - | 4.1 | 20 | 77 | 0 |
| 1,1,1,2-Tetrachloroethane | 10 | 8.563 | - | 14.4 | 20 | 80 | 0 |
| p/m Xylene | 0.545 | 0.535 | - | 1.8 | 20 | 77 | 0 |
| o Xylene | 0.52 | 0.505 | - | 2.9 | 20 | 77 | 0 |
| Styrene | 0.81 | 0.844 | - | -4.2 | 20 | 78 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 83 | 0 |
| Bromoform | 10 | 7.505 | - | 24.9* | 20 | 73 | • <30 |
| Isopropylbenzene | 2.594 | 2.522 | - | 2.8 | 20 | 77 | 0 |
| 4-Bromofluorobenzene | 0.917 | 0.904 | - | 1.4 | 20 | 81 | 0 |
| Bromobenzene | 0.647 | 0.601 | - | 7.1 | 20 | 74 | 0 |
| n-Propylbenzene | 3.099 | 3.088 | - | 0.4 | 20 | 78 | 0 |
| 1,4-Dichlorobutane | 0.806 | 0.74 | - | 8.2 | 20 | 73 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.421 | 0.361 | - | 14.3 | 20 | 71 | 0 |
| 4-Ethyltoluene | 2.492 | 2.523 | - | -1.2 | 20 | 81 | 0 |
| 2-Chlorotoluene | 2.199 | 2.236 | - | -1.7 | 20 | 80 | 0 |
| 1,3,5-Trimethylbenzene | 2.194 | 2.101 | - | 4.2 | 20 | 76 | 0 |
| 1,2,3-Trichloropropane | 0.352 | 0.304 | - | 13.6 | 20 | 73 | 0 |
| trans-1,4-Dichloro-2-buten | 0.143 | 0.118 | - | 17.5 | 20 | 76 | 0 |
| 4-Chlorotoluene | 1.999 | 1.943 | - | 2.8 | 20 | 79 | 0 |
| tert-Butylbenzene | 1.944 | 1.842 | - | 5.2 | 20 | 76 | 0 |
| 1,2,4-Trimethylbenzene | 2.157 | 2.062 | - | 4.4 | 20 | 76 | 0 |
| sec-Butylbenzene | 2.774 | 2.769 | - | 0.2 | 20 | 78 | 0 |
| p-Isopropyltoluene | 2.404 | 2.355 | - | 2 | 20 | 78 | 0 |
| 1,3-Dichlorobenzene | 1.278 | 1.237 | - | 3.2 | 20 | 77 | 0 |
| 1,4-Dichlorobenzene | 1.296 | 1.23 | - | 5.1 | 20 | 77 | 0 |
| p-Diethylbenzene | 1.431 | 1.403 | - | 2 | 20 | 79 | 0 |
| | | | | | | | |

* Value outside of QC limits.



Calibration Verification Summary Form 7 Volatiles

| Client Project Name Instrument ID Lab File ID Sample No Channel | : C&S Companies : SCC : VOA108 : V08211104A01 : WG1567182-2 : | npanies 04A01 182-2 | | Lab Number : L2 Project Number : N3 Calibration Date : 11 Init. Calib. Date(s) : 10 Init. Calib. Times : 01 | | 03 10/05/2 [:] 04:06 | 1 |
|--|--|---------------------------|---------|---|--------|-------------------------------------|----------|
| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
| n-Butylbenzene | 2.145 | 2.192 | - | -2.2 | 20 | 80 | 0 |
| 1,2-Dichlorobenzene | 1.176 | 1.108 | - | 5.8 | 20 | 76 | 0 |
| 1,2,4,5-Tetramethylbenz | zene 2.388 | 2.069 | - | 13.4 | 20 | 74 | 0 |
| 1,2-Dibromo-3-chloropro | opan 10 | 7.319 | - | 26.8* | 20 | 69 | 0 <30 |
| 1,3,5-Trichlorobenzene | 0.935 | 0.91 | - | 2.7 | 20 | 78 | 0 |
| Hexachlorobutadiene | 0.396 | 0.375 | - | 5.3 | 20 | 78 | 0 |
| 1,2,4-Trichlorobenzene | 0.802 | 0.666 | - | 17 | 20 | 68 | 0 |
| Naphthalene | 1.416 | 0.938 | - | 33.8* | 20 | 56 | 0 |
| 1,2,3-Trichlorobenzene | 0.689 | 0.502 | - | 27.1* | 20 | 61 | 0 <30 |



* Value outside of QC limits.

Appendix C

Validator Qualifications

KENNETH R. APPLIN Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).



ANALYTICAL REPORT

| Lab N | Number: | L2159331 |
|-------|-------------|---|
| Clien | t: | C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 |
| ATTN | N: | Cody Martin |
| Phon | ie: | (716) 847-1630 |
| Proje | ect Name: | SCC |
| Proje | ect Number: | N30.009.001 |
| Repo | ort Date: | 11/04/21 |

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-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Serial_No:11042114:29

Project Name:SCCProject Number:N30.009.001

 Lab Number:
 L2159331

 Report Date:
 11/04/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-------------------|--------|--------------------|-------------------------|--------------|
| L2159331-01 | ESI-3-102621 | WATER | FALCONER, NY | 10/26/21 11:42 | 10/28/21 |
| L2159331-02 | PW-1-102621 | WATER | FALCONER, NY | 10/26/21 12:00 | 10/28/21 |
| L2159331-03 | DUP-102621 | WATER | FALCONER, NY | 10/26/21 12:30 | 10/28/21 |
| L2159331-04 | ESI-7-102621 | WATER | FALCONER, NY | 10/26/21 12:55 | 10/28/21 |
| L2159331-05 | ESI-13R-102621 | WATER | FALCONER, NY | 10/26/21 13:30 | 10/28/21 |
| L2159331-06 | ESI-3R-102621 | WATER | FALCONER, NY | 10/26/21 14:00 | 10/28/21 |
| L2159331-07 | ESI-12-102721 | WATER | FALCONER, NY | 10/27/21 10:35 | 10/28/21 |
| L2159331-08 | ESI-11-102721 | WATER | FALCONER, NY | 10/27/21 11:15 | 10/28/21 |
| L2159331-09 | ESI-10-102721 | WATER | FALCONER, NY | 10/27/21 12:00 | 10/28/21 |
| L2159331-10 | ESI-1-102721 | WATER | FALCONER, NY | 10/27/21 13:15 | 10/28/21 |
| L2159331-11 | ESI-6-102721 | WATER | FALCONER, NY | 10/27/21 13:45 | 10/28/21 |
| L2159331-12 | ESI-2-102721 | WATER | FALCONER, NY | 10/27/21 14:45 | 10/28/21 |
| L2159331-13 | TRIP-BLANK-102721 | WATER | FALCONER, NY | 10/27/21 15:00 | 10/28/21 |



Project Name: SCC Project Number: N30.009.001
 Lab Number:
 L2159331

 Report Date:
 11/04/21

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: SCC Project Number: N30.009.001
 Lab Number:
 L2159331

 Report Date:
 11/04/21

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2159331-01: The collection date and time on the chain of custody was 26-OCT-21 11:42; however, the collection date/time on the container label was 26-OCT-21 11:30. At the client's request, the collection date/time is reported as 26-OCT-21 11:42.

L2159331-02: A sample identified as "PW-2-102621" was listed on the Chain of Custody, but not received. This was verified by the client. At the client's request the sample is identified as "PW-1-102621". L2159331-07: The collection date and time on the chain of custody was 27-OCT-21 10:35; however, the collection date/time on the container label was 27-OCT-21 10:00. At the client's request, the collection

date/time is reported as 27-OCT-21 10:35.

L2159331-12: The collection date and time on the chain of custody was 27-OCT-21 14:45; however, the collection date/time on the container label was 27-OCT-21 14:30. At the client's request, the collection date/time is reported as 27-OCT-21 14:45.

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:

Cattlin Wallen Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/04/21


ORGANICS



VOLATILES



| | | | Serial_No:11042114:29 | | | | |
|--|---|----------------|--|---|--|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | | |
| | | SAMPLE RESULTS | | | | | |
| Lab ID: Client ID: Sample Location: | L2159331-01 ESI-3-102621 FALCONER, NY | | Date Collected: Date Received: Field Prep: | 10/26/21 11:42 10/28/21 Not Specified | | | |
| Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: | Water 1,8260C 11/03/21 21:18 NLK | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.66 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



 Serial_No:11042114:29

 Project Name:
 SCC
 Lab Number:
 L2159331

 Project Number:
 N30.009.001
 Report Date:
 11/04/21

 SAMPLE RESULTS
 Date Collected:
 10/26/21 11:4

 Client ID:
 L2159331-01
 Date Collected:
 10/26/21 11:4

Client ID: ESI-3-102621 Sample Location: FALCONER, NY

Date Collected:10Date Received:10Field Prep:N

10/26/21 11:42 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| Acetone | 5.5 | | ug/l | 5.0 | 1.5 | 1 | | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 | |
| Toluene-d8 | 95 | | 70-130 | |
| 4-Bromofluorobenzene | 94 | | 70-130 | |
| Dibromofluoromethane | 109 | | 70-130 | |



| | | | Serial_No:11042114:29 | | | |
|--|--|----------------|--|---|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: Client ID: Sample Location: | L2159331-02 PW-1-102621 FALCONER, NY | | Date Collected: Date Received: Field Prep: | 10/26/21 12:00 10/28/21 Not Specified | | |
| Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: | Water 1,8260C 11/04/21 08:45 PD | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 4.4 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



Serial_No:11042114:29 Project Name: SCC Lab Number: **Project Number:** Report Date: N30.009.001 SAMPLE RESULTS

Lab ID: L2159331-02 Client ID: PW-1-102621 Sample Location: FALCONER, NY

Date Collected: Date Received: Field Prep:

10/26/21 12:00 10/28/21 Not Specified

L2159331

11/04/21

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 | | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 | |
| Toluene-d8 | 95 | | 70-130 | |
| 4-Bromofluorobenzene | 93 | | 70-130 | |
| Dibromofluoromethane | 106 | | 70-130 | |



| | | | Serial_No:11042114:29 | | | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | | |
| | | SAMPLE RESULTS | | | | | |
| Lab ID: | L2159331-03 | | Date Collected: | 10/26/21 12:30 | | | |
| Client ID: | DUP-102621 | | Date Received: | 10/28/21 | | | |
| Sample Location: | FALCONER, NY | | Field Prep: | Not Specified | | | |
| Sample Depth: | | | | | | | |
| Matrix: | Water | | | | | | |
| Analytical Method: | 1,8260C | | | | | | |
| Analytical Date: | 11/03/21 21:38 | | | | | | |
| Analyst: | NLK | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 4.4 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



Project Name: SCC
Project Number: N30.009.001
SAMPLE RESULTS

 Serial_No:11042114:29

 Lab Number:
 L2159331

 Report Date:
 11/04/21

Lab ID:L2159331-03Client ID:DUP-102621Sample Location:FALCONER, NY

Date Collected: Date Received: Field Prep:

10/26/21 12:30 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| Acetone | 1.7 | J | ug/l | 5.0 | 1.5 | 1 | | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 | |
| Toluene-d8 | 94 | | 70-130 | |
| 4-Bromofluorobenzene | 91 | | 70-130 | |
| Dibromofluoromethane | 108 | | 70-130 | |



| | | | Serial_No:11042114:29 | | | |
|--|---|----------------|--|---|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: Client ID: Sample Location: | L2159331-04 ESI-7-102621 FALCONER, NY | | Date Collected: Date Received: Field Prep: | 10/26/21 12:55 10/28/21 Not Specified | | |
| Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: | Water 1,8260C 11/03/21 21:58 NLK | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 18 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



Project Name: SCC
Project Number: N30.009.001
SAMPLE RESULTS

 Serial_No:11042114:29

 Lab Number:
 L2159331

 Report Date:
 11/04/21

Lab ID:L2159331-04Client ID:ESI-7-102621Sample Location:FALCONER, NY

Date Collected: 7 Date Received: 7 Field Prep: 8

10/26/21 12:55 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| Acetone | 3.2 | J | ug/l | 5.0 | 1.5 | 1 | | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p-lsopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 114 | | 70-130 | |
| Toluene-d8 | 87 | | 70-130 | |
| 4-Bromofluorobenzene | 92 | | 70-130 | |
| Dibromofluoromethane | 113 | | 70-130 | |



| | | Serial_No:11042114:29 | | | | |
|--------------------|----------------|-----------------------|-----------------|----------------|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: | L2159331-05 | | Date Collected: | 10/26/21 13:30 | | |
| Client ID: | ESI-13R-102621 | | Date Received: | 10/28/21 | | |
| Sample Location: | FALCONER, NY | | Field Prep: | Not Specified | | |
| Sample Depth: | | | | | | |
| Matrix: | Water | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 11/03/21 22:18 | | | | | |
| Analyst: | NLK | | | | | |
| | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 15 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



Serial_No:11042114:29 **Project Name:** SCC Lab Number: L2159331 **Project Number:** N30.009.001 **Report Date:** 11/04/21 SAMPLE RESULTS Lab ID: Date Collected: L2159331-05 10/26/21 13:30 Date Received: Client ID: ESI-13R-102621 10/28/21 Sample Location: FALCONER, NY Field Prep: Not Specified Sample Depth: Qualifier RL MDL **Dilution Factor** Parameter Result Units Volatile Organics by GC/MS - Westborough Lab 1,3-Dichlorobenzene ND 2.5 0.70 1 ug/l 1,4-Dichlorobenzene ND ug/l 2.5 0.70 1 Methyl tert butyl ether ND ug/l 2.5 0.70 1 p/m-Xylene ND 2.5 0.70 1 ug/l o-Xylene ND ug/l 2.5 0.70 1 cis-1,2-Dichloroethene ND ug/l 2.5 0.70 1 ND Styrene ug/l 2.5 0.70 1 Dichlorodifluoromethane ND ug/l 5.0 1.0 1 ND Acetone ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 2-Butanone ND 1 ug/l 5.0 1.9 ND 4-Methyl-2-pentanone 5.0 1.0 1 ug/l ND 1.0 2-Hexanone 5.0 1 ug/l 1,2-Dibromoethane ND 2.0 0.65 1 ug/l ND 2.5 0.70 1 n-Butylbenzene ug/l sec-Butylbenzene ND 2.5 0.70 1 ug/l tert-Butylbenzene ND ug/l 2.5 0.70 1 1 2 Dik 0 0 70 ~ -

| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | 1 | |
|-----------------------------|----|------|-----|------|---|--|
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | 1 | |
| n-Propylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl Acetate | ND | ug/l | 2.0 | 0.23 | 1 | |
| Cyclohexane | ND | ug/l | 10 | 0.27 | 1 | |
| Freon-113 | ND | ug/l | 2.5 | 0.70 | 1 | |
| Methyl cyclohexane | ND | ug/l | 10 | 0.40 | 1 | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 | |
| Toluene-d8 | 94 | | 70-130 | |
| 4-Bromofluorobenzene | 92 | | 70-130 | |
| Dibromofluoromethane | 110 | | 70-130 | |

| | | | | Serial_No:11042114:29 | | | | |
|--------------------|----------------|---|----------------|-----------------------|----------------|--|--|--|
| Project Name: | SCC | | | Lab Number: | L2159331 | | | |
| Project Number: | N30.009.001 | | | Report Date: | 11/04/21 | | | |
| | | | SAMPLE RESULTS | | | | | |
| Lab ID: | L2159331-06 | D | | Date Collected: | 10/26/21 14:00 | | | |
| Client ID: | ESI-3R-102621 | | | Date Received: | 10/28/21 | | | |
| Sample Location: | FALCONER, NY | | | Field Prep: | Not Specified | | | |
| Sample Depth: | | | | | | | | |
| Matrix: | Water | | | | | | | |
| Analytical Method: | 1,8260C | | | | | | | |
| Analytical Date: | 11/04/21 00:41 | | | | | | | |
| Analyst: | NLK | | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|---------------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Wes | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 62 | 18. | 25 |
| 1,1-Dichloroethane | ND | | ug/l | 62 | 18. | 25 |
| Chloroform | ND | | ug/l | 62 | 18. | 25 |
| Carbon tetrachloride | ND | | ug/l | 12 | 3.4 | 25 |
| 1,2-Dichloropropane | ND | | ug/l | 25 | 3.4 | 25 |
| Dibromochloromethane | ND | | ug/l | 12 | 3.7 | 25 |
| 1,1,2-Trichloroethane | ND | | ug/l | 38 | 12. | 25 |
| Tetrachloroethene | ND | | ug/l | 12 | 4.5 | 25 |
| Chlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| Trichlorofluoromethane | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dichloroethane | ND | | ug/l | 12 | 3.3 | 25 |
| 1,1,1-Trichloroethane | ND | | ug/l | 62 | 18. | 25 |
| Bromodichloromethane | ND | | ug/l | 12 | 4.8 | 25 |
| trans-1,3-Dichloropropene | ND | | ug/l | 12 | 4.1 | 25 |
| cis-1,3-Dichloropropene | ND | | ug/l | 12 | 3.6 | 25 |
| Bromoform | ND | | ug/l | 50 | 16. | 25 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 12 | 4.2 | 25 |
| Benzene | ND | | ug/l | 12 | 4.0 | 25 |
| Toluene | ND | | ug/l | 62 | 18. | 25 |
| Ethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| Chloromethane | ND | | ug/l | 62 | 18. | 25 |
| Bromomethane | ND | | ug/l | 62 | 18. | 25 |
| Vinyl chloride | 2200 | | ug/l | 25 | 1.8 | 25 |
| Chloroethane | ND | | ug/l | 62 | 18. | 25 |
| 1,1-Dichloroethene | 5.1 | J | ug/l | 12 | 4.2 | 25 |
| trans-1,2-Dichloroethene | 21 | J | ug/l | 62 | 18. | 25 |
| Trichloroethene | 3000 | | ug/l | 12 | 4.4 | 25 |
| 1,2-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| | | | | | | |



| | | | | | | Serial_No | o:11042114:29 | |
|---|--|--------|-----------|-------|---------------------------------|----------------------------|---|--|
| Project Name: | SCC | | | | Lab Nu | mber: | L2159331 | |
| Project Number: | N30.009.001 | | | | Report | Date: | 11/04/21 | |
| | | SAMP | | S | | | | |
| Lab ID: Client ID: Sample Location: | L2159331-06 ESI-3R-102621 FALCONER, NY | D | | | Date Co Date Re Field Pre | llected: ceived: ep: | 10/26/21 14:00 10/28/21 Not Specified | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics I | by GC/MS - Westborou | gh Lab | | | | | | |
| 1 3-Dichlorobenzene | | ND | | ug/l | 62 | 18 | 25 | |
| 1.4-Dichlorobenzene | | ND | | ug/l | 62 | 18 | 25 | |
| Methyl tert butyl ether | | ND | | ug/l | 62 | 18 | 25 | |
| n/m-Xylene | | ND | | ug/l | 62 | 18 | 25 | |
| | | ND | | ug/I | 62 | 18 | 25 | |
| cis-1 2-Dichloroethene | | 2400 | | ug/I | 62 | 18 | 25 | |
| Styrene | | ND | | ug/l | 62 | 18 | 25 | |
| Dichlorodifluoromethane | | ND | | ug/l | 120 | 25 | 25 | |
| Acetone | | 41 | | ug/l | 120 | 36 | 25 | |
| Carbon disulfide | | ND | | ug/l | 120 | 25 | 25 | |
| 2-Butanone | | ND | | ug/l | 120 | 48. | 25 | |
| 4-Methyl-2-pentanone | | ND | | ua/l | 120 | 25. | 25 | |
| 2-Hexanone | | ND | | ua/l | 120 | 25. | 25 | |
| 1,2-Dibromoethane | | ND | | ua/l | 50 | 16. | 25 | |
| n-Butylbenzene | | ND | | ua/l | 62 | 18. | 25 | |
| sec-Butylbenzene | | ND | | ua/l | 62 | 18. | 25 | |
| tert-Butylbenzene | | ND | | ua/l | 62 | 18. | 25 | |
| 1,2-Dibromo-3-chloropro | pane | ND | | ug/l | 62 | 18. | 25 | |
| Isopropylbenzene | | ND | | ug/l | 62 | 18. | 25 | |
| p-Isopropyltoluene | | ND | | ug/l | 62 | 18. | 25 | |
| Naphthalene | | ND | | ug/l | 62 | 18. | 25 | |
| n-Propylbenzene | | ND | | ug/l | 62 | 18. | 25 | |
| 1,2,4-Trichlorobenzene | | ND | | ug/l | 62 | 18. | 25 | |
| 1,3,5-Trimethylbenzene | | ND | | ug/l | 62 | 18. | 25 | |
| 1,2,4-Trimethylbenzene | | ND | | ug/l | 62 | 18. | 25 | |
| Methyl Acetate | | ND | | ug/l | 50 | 5.8 | 25 | |
| Cyclohexane | | ND | | ug/l | 250 | 6.8 | 25 | |
| Freon-113 | | ND | | ug/l | 62 | 18. | 25 | |
| Methyl cyclohexane | | ND | | ua/l | 250 | 9.9 | 25 | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 112 | 70-130 | |
| Toluene-d8 | 94 | 70-130 | |
| 4-Bromofluorobenzene | 93 | 70-130 | |
| Dibromofluoromethane | 110 | 70-130 | |



| | | | Serial_No:11042114:29 | | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: | L2159331-07 | | Date Collected: | 10/27/21 10:35 | | |
| Client ID: | ESI-12-102721 | | Date Received: | 10/28/21 | | |
| Sample Location: | FALCONER, NY | | Field Prep: | Not Specified | | |
| Sample Depth: | | | | | | |
| Matrix: | Water | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 11/03/21 22:39 | | | | | |
| Analyst: | NLK | | | | | |
| | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|--------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Wes | tborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | 0.36 | J | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | 3.6 | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



 Project Name:
 SCC
 Lab Number:
 L2159331

 Project Number:
 N30.009.001
 Report Date:
 11/04/21

 Lab ID:
 L2159331-07
 Date Collected:
 10/27/21 10:33

| Lad ID: | L2159331-07 |
|------------------|---------------|
| Client ID: | ESI-12-102721 |
| Sample Location: | FALCONER, NY |

Date Collected: 7 Date Received: 7 Field Prep: 1

10/27/21 10:35 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|------------|-----------|-------|-----|------|-----------------|--|
| Volatile Organics by GC/MS - Westb | orough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | 5.6 | | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| p-lsopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 | |
| Toluene-d8 | 92 | | 70-130 | |
| 4-Bromofluorobenzene | 91 | | 70-130 | |
| Dibromofluoromethane | 110 | | 70-130 | |



| | | | Serial_No:11042114:29 | | | |
|--|--|----------------|--|---|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: Client ID: Sample Location: | L2159331-08 ESI-11-102721 FALCONER, NY | | Date Collected: Date Received: Field Prep: | 10/27/21 11:15 10/28/21 Not Specified | | |
| Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: | Water 1,8260C 11/03/21 22:59 NLK | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Wes | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | 0.38 | J | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | 3.1 | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



 Serial_No:11042114:29

 Project Name:
 SCC
 Lab Number:
 L2159331

 Project Number:
 N30.009.001
 Report Date:
 11/04/21

 Lab ID:
 L2159331-08
 Date Collected:
 10/27/21 11:*

 Client ID:
 ESI 44 403724
 Date Collected:
 10/27/21 11:*

Client ID: ESI-11-102721 Sample Location: FALCONER, NY

Date Collected:1Date Received:1Field Prep:N

10/27/21 11:15 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|---------------------------------------|----------|-----------|-------|-----|------|-----------------|--|
| Volatile Organics by GC/MS - Westborg | ough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | 7.0 | | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| p-IsopropyItoluene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 | |
| Toluene-d8 | 89 | | 70-130 | |
| 4-Bromofluorobenzene | 89 | | 70-130 | |
| Dibromofluoromethane | 110 | | 70-130 | |



| | | | Serial_No:11042114:29 | | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: | L2159331-09 | | Date Collected: | 10/27/21 12:00 | | |
| Client ID: | ESI-10-102721 | | Date Received: | 10/28/21 | | |
| Sample Location: | FALCONER, NY | | Field Prep: | Not Specified | | |
| Sample Depth: | | | | | | |
| Matrix: | Water | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 11/03/21 23:19 | | | | | |
| Analyst: | NLK | | | | | |
| | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | 0.76 | J | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



 Serial_No:11042114:29

 Lab Number:
 L2159331

 Report Date:
 11/04/21

SAMPLE RESULTS

Lab ID:L2159331-09Client ID:ESI-10-102721Sample Location:FALCONER, NY

Date Collected: Date Received: Field Prep:

10/27/21 12:00 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|-------------------------------------|------------|-----------|-------|-----|------|-----------------|--|
| Volatile Organics by GC/MS - Westbo | orough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | |
| Acetone | 3.6 | J | ug/l | 5.0 | 1.5 | 1 | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | |
|-----------------------|------------|-----------|------------------------|--|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 | |
| Toluene-d8 | 92 | | 70-130 | |
| 4-Bromofluorobenzene | 90 | | 70-130 | |
| Dibromofluoromethane | 111 | | 70-130 | |



| | | | Serial_No:11042114:29 | | |
|--|---|----------------|--|---|--|
| Project Name: | SCC | | Lab Number: | L2159331 | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | |
| | | SAMPLE RESULTS | | | |
| Lab ID: Client ID: Sample Location: | L2159331-10 ESI-1-102721 FALCONER, NY | | Date Collected: Date Received: Field Prep: | 10/27/21 13:15 10/28/21 Not Specified | |
| Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: | Water 1,8260C 11/03/21 23:40 NLK | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|----------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | estborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 7.8 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



SAMPLE RESULTS

Lab ID:L2159331-10Client ID:ESI-1-102721Sample Location:FALCONER, NY

 Serial_No:11042114:29

 Lab Number:
 L2159331

 Report Date:
 11/04/21

Date Collected: Date Received: Field Prep:

10/27/21 13:15 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | |
| Acetone | 2.9 | J | ug/l | 5.0 | 1.5 | 1 | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| p-IsopropyItoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 110 | 70-130 | |
| Toluene-d8 | 93 | 70-130 | |
| 4-Bromofluorobenzene | 94 | 70-130 | |
| Dibromofluoromethane | 110 | 70-130 | |



| | | | Serial_No:11042114:29 | | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|--|
| Project Name: | SCC | | Lab Number: | L2159331 | | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: | L2159331-11 | | Date Collected: | 10/27/21 13:45 | | |
| Client ID: | ESI-6-102721 | | Date Received: | 10/28/21 | | |
| Sample Location: | FALCONER, NY | | Field Prep: | Not Specified | | |
| Sample Depth: | | | | | | |
| Matrix: | Water | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 11/04/21 00:00 | | | | | |
| Analyst: | NLK | | | | | |
| | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | 0.37 | J | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.86 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | 2.6 | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| | | | | | | |



SAMPLE RESULTS

Lab ID:L2159331-11Client ID:ESI-6-102721Sample Location:FALCONER, NY

 Serial_No:11042114:29

 Lab Number:
 L2159331

 Report Date:
 11/04/21

Date Collected: Date Received: Field Prep:

10/27/21 13:45 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| Acetone | 4.7 | J | ug/l | 5.0 | 1.5 | 1 | | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 111 | 70-130 | |
| Toluene-d8 | 89 | 70-130 | |
| 4-Bromofluorobenzene | 91 | 70-130 | |
| Dibromofluoromethane | 110 | 70-130 | |

| | | | Serial_No:11042114:29 | | |
|--|---|----------------|--|---|--|
| Project Name: | SCC | | Lab Number: | L2159331 | |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 | |
| | | SAMPLE RESULTS | | | |
| Lab ID: Client ID: Sample Location: | L2159331-12 ESI-2-102721 FALCONER, NY | | Date Collected: Date Received: Field Prep: | 10/27/21 14:45 10/28/21 Not Specified | |
| Sample Depth: Matrix: Analytical Method: Analytical Date: Analyst: | Water 1,8260C 11/04/21 00:20 NLK | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | |
|--|--------|-----------|-------|------|------|-----------------|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 | | | |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 | | | |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 | | | |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 | | | |
| Tetrachloroethene | 0.48 | J | ug/l | 0.50 | 0.18 | 1 | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 | | | |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 | | | |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 | | | |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 | | | |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 | | | |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 | | | |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 | | | |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 | | | |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,1-Dichloroethene | 0.27 | J | ug/l | 0.50 | 0.17 | 1 | | | |
| trans-1,2-Dichloroethene | 5.0 | | ug/l | 2.5 | 0.70 | 1 | | | |
| Trichloroethene | 200 | Е | ug/l | 0.50 | 0.18 | 1 | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| | | | | | | | | | |



SAMPLE RESULTS

Lab ID:L2159331-12Client ID:ESI-2-102721Sample Location:FALCONER, NY

 Serial_No:11042114:29

 Lab Number:
 L2159331

 Report Date:
 11/04/21

Date Collected: 7 Date Received: 7 Field Prep: 1

10/27/21 14:45 10/28/21 Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | | |
|--|--------|-----------|-------|-----|------|-----------------|--|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| cis-1,2-Dichloroethene | 180 | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| Acetone | 8.8 | | ug/l | 5.0 | 1.5 | 1 | | | | |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 | | | | |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 | | | | |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 | | | | |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 | | | | |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 | | | | |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 | | | | |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 112 | 70-130 | |
| Toluene-d8 | 96 | 70-130 | |
| 4-Bromofluorobenzene | 91 | 70-130 | |
| Dibromofluoromethane | 107 | 70-130 | |



| | | | | Serial_No | :11042114:29 |
|--------------------|----------------|---|----------------|-----------------|----------------|
| Project Name: | SCC | | | Lab Number: | L2159331 |
| Project Number: | N30.009.001 | | | Report Date: | 11/04/21 |
| | | | SAMPLE RESULTS | | |
| Lab ID: | L2159331-12 | D | | Date Collected: | 10/27/21 14:45 |
| Client ID: | ESI-2-102721 | | | Date Received: | 10/28/21 |
| Sample Location: | FALCONER, NY | | | Field Prep: | Not Specified |
| Sample Depth: | | | | | |
| Matrix: | Water | | | | |
| Analytical Method: | 1,8260C | | | | |
| Analytical Date: | 11/04/21 13:09 | | | | |
| Analyst: | PD | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------|-----------------|-----------|------------|-----------|------------|-------------------|
| Volatile Organics by GC/MS - V | Vestborough Lab | | | | | |
| Trichloroethene | 190 | | ug/l | 2.5 | 0.88 | 5 |
| Surrogate | | | % Recovery | Qualifier | Acce Ci | eptance iteria |
| 1,2-Dichloroethane-d4 | | | 106 | | 7 | 70-130 |
| Toluene-d8 | | | 94 | | 7 | 70-130 |
| 4-Bromofluorobenzene | | | 91 | | 7 | 70-130 |
| Dibromofluoromethane | | | 101 | | 7 | 70-130 |



| | | | Serial_N | o:11042114:29 |
|--------------------|-------------------|----------------|-----------------|----------------|
| Project Name: | SCC | | Lab Number: | L2159331 |
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 |
| | | SAMPLE RESULTS | | |
| Lab ID: | L2159331-13 | | Date Collected: | 10/27/21 15:00 |
| Client ID: | TRIP-BLANK-102721 | | Date Received: | 10/28/21 |
| Sample Location: | FALCONER, NY | | Field Prep: | Not Specified |
| Sample Depth: | | | | |
| Matrix: | Water | | | |
| Analytical Method: | 1,8260C | | | |
| Analytical Date: | 11/03/21 20:57 | | | |
| Analyst: | NLK | | | |
| | | | | |
| | | | | |
| | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | | |
|--|--------|-----------|-------|------|------|-----------------|--|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 | | | |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 | | | |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 | | | |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 | | | |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 | | | |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 | | | |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 | | | |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 | | | |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 | | | |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 | | | |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 | | | |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 | | | |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 | | | |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 | | | |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 | | | |
| | | | | | | | | | |



Serial_No:11042114:29 **Project Name:** SCC Lab Number: L2159331 **Project Number:** N30.009.001 **Report Date:** 11/04/21 SAMPLE RESULTS Date Collected: Lab ID: L2159331-13 10/27/21 15:00 Client ID: TRIP-BLANK-102721 Date Received: 10/28/21 Sample Location: Field Prep: Not Specified FALCONER, NY Sample Depth: Qualifier MDL Result Units RL **Dilution Factor** Parameter Volatile Organics by GC/MS - Westborough Lab 1,3-Dichlorobenzene ND 2.5 0.70 1 ug/l 1,4-Dichlorobenzene ND ug/l 2.5 0.70 1 Methyl tert butyl ether ND ug/l 2.5 0.70 1 p/m-Xylene ND 2.5 0.70 1 ug/l o-Xylene ND ug/l 2.5 0.70 1 cis-1,2-Dichloroethene ND ug/l 2.5 0.70 1 ND Styrene ug/l 2.5 0.70 1 Dichlorodifluoromethane ND ug/l 5.0 1.0 1 J Acetone 3.1 ug/l 5.0 1.5 1 Carbon disulfide ND ug/l 5.0 1.0 1 ND 1 2-Butanone ug/l 5.0 1.9 4-Methyl-2-pentanone ND 5.0 1.0 1 ug/l ND 2-Hexanone 5.0 1.0 1 ug/l 1,2-Dibromoethane ND 2.0 0.65 1 ug/l ND 2.5 0.70 1 n-Butylbenzene ug/l sec-Butylbenzene ND 2.5 0.70 1 ug/l tert-Butylbenzene ND ug/l 2.5 0.70 1 1,2-Dibromo-3-chloropropane ND 2.5 0.70 1 ug/l Isopropylbenzene ND 2.5 0.70 1 ug/l p-Isopropyltoluene ND 2.5 0.70 1 ug/l Naphthalene ND 2.5 0.70 1 ug/l 1 n-Propylbenzene ND 2.5 0.70 ug/l ND 2.5 1 1,2,4-Trichlorobenzene 0.70 ug/l 1,3,5-Trimethylbenzene ND ug/l 2.5 0.70 1 ND 0.70 1,2,4-Trimethylbenzene ug/l 2.5 1 ND 2.0 Methyl Acetate 0.23 1 ug/l Cyclohexane ND 10 0.27 1 ug/l ND Freon-113 ug/l 2.5 0.70 1 ND 10 0.40 Methyl cyclohexane 1 ug/l

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | |
| Toluene-d8 | 92 | 70-130 | |
| 4-Bromofluorobenzene | 94 | 70-130 | |
| Dibromofluoromethane | 108 | 70-130 | |

 Lab Number:
 L2159331

 Report Date:
 11/04/21

Project Name:SCCProject Number:N30.009.001

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:11/04/21 08:24Analyst:PD

| Parameter | Result | Qualifier | Units | 5 | RL | MDL |
|------------------------------|-----------------|-----------|-------|-------|--------|-------------|
| Volatile Organics by GC/MS - | Westborough Lab | for sampl | e(s): | 02,12 | Batch: | WG1567182-5 |
| Methylene chloride | ND | | ug/l | | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | | 0.50 | 0.17 |
| Benzene | ND | | ug/l | | 0.50 | 0.16 |
| Toluene | ND | | ug/l | | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | | 2.5 | 0.70 |



Lab Number: L2159331 **Report Date:** 11/04/21

Project Name: SCC Project Number: N30.009.001

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: Analyst: PD

1,8260C 11/04/21 08:24

| Parameter | Result | Qualifier Units | RL | MDL | |
|-----------------------------|-------------------|-----------------|--------------|-------------|--|
| Volatile Organics by GC/MS | - Westborough Lab | for sample(s): | 02,12 Batch: | WG1567182-5 | |
| 1,4-Dichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| Methyl tert butyl ether | ND | ug/l | 2.5 | 0.70 | |
| p/m-Xylene | ND | ug/l | 2.5 | 0.70 | |
| o-Xylene | ND | ug/l | 2.5 | 0.70 | |
| cis-1,2-Dichloroethene | ND | ug/l | 2.5 | 0.70 | |
| Styrene | ND | ug/l | 2.5 | 0.70 | |
| Dichlorodifluoromethane | ND | ug/l | 5.0 | 1.0 | |
| Acetone | ND | ug/l | 5.0 | 1.5 | |
| Carbon disulfide | ND | ug/l | 5.0 | 1.0 | |
| 2-Butanone | ND | ug/l | 5.0 | 1.9 | |
| 4-Methyl-2-pentanone | ND | ug/l | 5.0 | 1.0 | |
| 2-Hexanone | ND | ug/l | 5.0 | 1.0 | |
| 1,2-Dibromoethane | ND | ug/l | 2.0 | 0.65 | |
| n-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| sec-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| tert-Butylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/l | 2.5 | 0.70 | |
| Isopropylbenzene | ND | ug/l | 2.5 | 0.70 | |
| p-Isopropyltoluene | ND | ug/l | 2.5 | 0.70 | |
| Naphthalene | ND | ug/l | 2.5 | 0.70 | |
| n-Propylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 2.5 | 0.70 | |
| Methyl Acetate | ND | ug/l | 2.0 | 0.23 | |
| Cyclohexane | ND | ug/l | 10 | 0.27 | |
| Freon-113 | ND | ug/l | 2.5 | 0.70 | |
| Methyl cyclohexane | ND | ug/l | 10 | 0.40 | |



 Lab Number:
 L2159331

 Report Date:
 11/04/21

Project Name:SCCProject Number:N30.009.001

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:11/04/21 08:24Analyst:PD

| Parameter | Result | Qualifier | Units | RL | MDL | |
|---------------------------------|--------------|--------------|----------|------------|-------------|--|
| Volatile Organics by GC/MS - We | stborough La | ab for sampl | e(s): 02 | ,12 Batch: | WG1567182-5 | |

| Surrogate | %Recoverv | / Qualifier | Acceptance Criteria | |
|-----------------------|-----------|----------------|------------------------|--|
| | ,, | | | |
| 1,2-Dichloroethane-d4 | 103 | | 70-130 | |
| Toluene-d8 | 95 | | 70-130 | |
| 4-Bromofluorobenzene | 96 | | 70-130 | |
| Dibromofluoromethane | 105 | | 70-130 | |



Lab Number: L2159331 **Report Date:** 11/04/21

Project Name: SCC Project Number: N30.009.001

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: Analyst: LAC

1,8260C 11/03/21 17:54

| Parameter | Result | Qualifier | Units | RI | - | MDL | |
|----------------------------|-------------------|-----------|-------|----------|--------|-------------|--|
| Volatile Organics by GC/MS | - Westborough Lab | for samp | e(s): | 01,03-13 | Batch: | WG1567192-5 | |
| Methylene chloride | ND | | ug/l | 2.5 | 5 | 0.70 | |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Chloroform | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Carbon tetrachloride | ND | | ug/l | 0.5 | 0 | 0.13 | |
| 1,2-Dichloropropane | ND | | ug/l | 1.(|) | 0.14 | |
| Dibromochloromethane | ND | | ug/l | 0.5 | 0 | 0.15 | |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 5 | 0.50 | |
| Tetrachloroethene | ND | | ug/l | 0.5 | 0 | 0.18 | |
| Chlorobenzene | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 5 | 0.70 | |
| 1,2-Dichloroethane | ND | | ug/l | 0.5 | 0 | 0.13 | |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Bromodichloromethane | ND | | ug/l | 0.5 | 0 | 0.19 | |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.5 | 0 | 0.16 | |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.5 | 0 | 0.14 | |
| Bromoform | ND | | ug/l | 2.0 |) | 0.65 | |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.5 | 0 | 0.17 | |
| Benzene | ND | | ug/l | 0.5 | 0 | 0.16 | |
| Toluene | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Ethylbenzene | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Chloromethane | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Bromomethane | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Vinyl chloride | ND | | ug/l | 1.(|) | 0.07 | |
| Chloroethane | ND | | ug/l | 2.5 | 5 | 0.70 | |
| 1,1-Dichloroethene | ND | | ug/l | 0.5 | 0 | 0.17 | |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 5 | 0.70 | |
| Trichloroethene | ND | | ug/l | 0.5 | 0 | 0.18 | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 5 | 0.70 | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 5 | 0.70 | |



Lab Number: L2159331 **Report Date:** 11/04/21

Project Name: SCC Project Number: N30.009.001

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: Analyst: LAC

1,8260C 11/03/21 17:54

| Result | Qualifier Units | RL | MDL |
|-----------------|---|--|--|
| Westborough Lab | o for sample(s): | 01,03-13 Batch: | WG1567192-5 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 5.0 | 1.0 |
| ND | ug/l | 5.0 | 1.5 |
| ND | ug/l | 5.0 | 1.0 |
| ND | ug/l | 5.0 | 1.9 |
| ND | ug/l | 5.0 | 1.0 |
| ND | ug/l | 5.0 | 1.0 |
| ND | ug/l | 2.0 | 0.65 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 2.0 | 0.23 |
| ND | ug/l | 10 | 0.27 |
| ND | ug/l | 2.5 | 0.70 |
| ND | ug/l | 10 | 0.40 |
| | Result ND ND | Result dualiner ontest ND ug/l ND ug/l ND ug/l ND </td <td>Result duamer onts RL Westborough Lab for sample(s): 01,03-13 Batch: ND ug/l 2.5 ND ug/l 5.0 ND ug/l 2.5 ND ug/l 2.5</td> | Result duamer onts RL Westborough Lab for sample(s): 01,03-13 Batch: ND ug/l 2.5 ND ug/l 5.0 ND ug/l 2.5 ND ug/l 2.5 |



 Lab Number:
 L2159331

 Report Date:
 11/04/21

Project Name:SCCProject Number:N30.009.001

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:11/03/21 17:54Analyst:LAC

| Parameter | Result | Qualifier | Units | s R | L | MDL |
|-----------------------------------|-------------|--------------|-------|----------|--------|-------------|
| Volatile Organics by GC/MS - West | borough Lat | b for sample | e(s): | 01,03-13 | Batch: | WG1567192-5 |

| Surrogate | %Recovery | Qualifier | Criteria | |
|-----------------------|-----------|-----------|----------|--|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 | |
| Toluene-d8 | 93 | | 70-130 | |
| 4-Bromofluorobenzene | 94 | | 70-130 | |
| Dibromofluoromethane | 104 | | 70-130 | |



Lab Control Sample Analysis Batch Quality Control

Lab Number: L2159331

Project Number: N30.009.001

SCC

Project Name:

Report Date: 11/04/21

| | LCS | | LCSD | | %Recovery | | | RPD | |
|----------------------------|------------------------------|--------------|--------------|-------------|-------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | |
| Volatile Organics by GC/MS | - Westborough Lab Associated | sample(s): (| 02,12 Batch: | WG1567182-3 | WG1567182-4 | | | | |
| Methylene chloride | 110 | | 110 | | 70-130 | 0 | | 20 | |
| 1,1-Dichloroethane | 100 | | 90 | | 70-130 | 11 | | 20 | |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 | |
| Carbon tetrachloride | 87 | | 95 | | 63-132 | 9 | | 20 | |
| 1,2-Dichloropropane | 97 | | 99 | | 70-130 | 2 | | 20 | |
| Dibromochloromethane | 79 | | 83 | | 63-130 | 5 | | 20 | |
| 1,1,2-Trichloroethane | 92 | | 92 | | 70-130 | 0 | | 20 | |
| Tetrachloroethene | 96 | | 98 | | 70-130 | 2 | | 20 | |
| Chlorobenzene | 96 | | 96 | | 75-130 | 0 | | 20 | |
| Trichlorofluoromethane | 110 | | 110 | | 62-150 | 0 | | 20 | |
| 1,2-Dichloroethane | 95 | | 98 | | 70-130 | 3 | | 20 | |
| 1,1,1-Trichloroethane | 99 | | 100 | | 67-130 | 1 | | 20 | |
| Bromodichloromethane | 89 | | 94 | | 67-130 | 5 | | 20 | |
| trans-1,3-Dichloropropene | 79 | | 81 | | 70-130 | 3 | | 20 | |
| cis-1,3-Dichloropropene | 81 | | 81 | | 70-130 | 0 | | 20 | |
| Bromoform | 75 | | 80 | | 54-136 | 6 | | 20 | |
| 1,1,2,2-Tetrachloroethane | 86 | | 92 | | 67-130 | 7 | | 20 | |
| Benzene | 93 | | 95 | | 70-130 | 2 | | 20 | |
| Toluene | 93 | | 92 | | 70-130 | 1 | | 20 | |
| Ethylbenzene | 96 | | 96 | | 70-130 | 0 | | 20 | |
| Chloromethane | 100 | | 100 | | 64-130 | 0 | | 20 | |
| Bromomethane | 120 | | 110 | | 39-139 | 9 | | 20 | |
| Vinyl chloride | 91 | | 92 | | 55-140 | 1 | | 20 | |


Lab Number: L2159331

Project Number: N30.009.001

SCC

Project Name:

Report Date: 11/04/21

| | | LCS | | 1 | LCSD | | %Recovery | | | RPD | |
|------------------------------|-------------------|-----------|------------|-------|---------|-------------|-------------|-----|------|--------|--|
| Parameter | %Re | ecovery | Qual | %R | ecovery | Qual | Limits | RPD | Qual | Limits | |
| Volatile Organics by GC/MS - | Westborough Lab A | ssociated | sample(s): | 02,12 | Batch: | WG1567182-3 | WG1567182-4 | | | | |
| Chloroethane | | 130 | | | 130 | | 55-138 | 0 | | 20 | |
| 1,1-Dichloroethene | | 110 | | | 110 | | 61-145 | 0 | | 20 | |
| trans-1,2-Dichloroethene | | 110 | | | 110 | | 70-130 | 0 | | 20 | |
| Trichloroethene | | 94 | | | 96 | | 70-130 | 2 | | 20 | |
| 1,2-Dichlorobenzene | | 94 | | | 97 | | 70-130 | 3 | | 20 | |
| 1,3-Dichlorobenzene | | 97 | | | 99 | | 70-130 | 2 | | 20 | |
| 1,4-Dichlorobenzene | | 95 | | | 99 | | 70-130 | 4 | | 20 | |
| Methyl tert butyl ether | | 100 | | | 110 | | 63-130 | 10 | | 20 | |
| p/m-Xylene | | 100 | | | 100 | | 70-130 | 0 | | 20 | |
| o-Xylene | | 95 | | | 100 | | 70-130 | 5 | | 20 | |
| cis-1,2-Dichloroethene | | 96 | | | 90 | | 70-130 | 6 | | 20 | |
| Styrene | | 105 | | | 105 | | 70-130 | 0 | | 20 | |
| Dichlorodifluoromethane | | 88 | | | 88 | | 36-147 | 0 | | 20 | |
| Acetone | | 110 | | | 110 | | 58-148 | 0 | | 20 | |
| Carbon disulfide | | 100 | | | 120 | | 51-130 | 18 | | 20 | |
| 2-Butanone | | 83 | | | 81 | | 63-138 | 2 | | 20 | |
| 4-Methyl-2-pentanone | | 70 | | | 76 | | 59-130 | 8 | | 20 | |
| 2-Hexanone | | 72 | | | 72 | | 57-130 | 0 | | 20 | |
| 1,2-Dibromoethane | | 90 | | | 91 | | 70-130 | 1 | | 20 | |
| n-Butylbenzene | | 100 | | | 110 | | 53-136 | 10 | | 20 | |
| sec-Butylbenzene | | 100 | | | 100 | | 70-130 | 0 | | 20 | |
| tert-Butylbenzene | | 95 | | | 99 | | 70-130 | 4 | | 20 | |
| 1,2-Dibromo-3-chloropropane | | 73 | | | 82 | | 41-144 | 12 | | 20 | |



Lab Number: L2159331 Report Date: 11/04/21

Project Name: SCC Project Number: N30.009.001

| Parameter | LCS %Recovery | Qual | %R | LCSD lecovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|--|------------------|------------|-------|------------------|-------------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS - Westborough L | ab Associated | sample(s): | 02,12 | Batch: | WG1567182-3 | WG1567182-4 | | | | |
| Isopropylbenzene | 97 | | | 100 | | 70-130 | 3 | | 20 | |
| p-Isopropyltoluene | 98 | | | 100 | | 70-130 | 2 | | 20 | |
| Naphthalene | 66 | Q | | 75 | | 70-130 | 13 | | 20 | |
| n-Propylbenzene | 100 | | | 100 | | 69-130 | 0 | | 20 | |
| 1,2,4-Trichlorobenzene | 83 | | | 91 | | 70-130 | 9 | | 20 | |
| 1,3,5-Trimethylbenzene | 96 | | | 99 | | 64-130 | 3 | | 20 | |
| 1,2,4-Trimethylbenzene | 96 | | | 99 | | 70-130 | 3 | | 20 | |
| Methyl Acetate | 99 | | | 110 | | 70-130 | 11 | | 20 | |
| Cyclohexane | 92 | | | 85 | | 70-130 | 8 | | 20 | |
| Freon-113 | 110 | | | 120 | | 70-130 | 9 | | 20 | |
| Methyl cyclohexane | 90 | | | 90 | | 70-130 | 0 | | 20 | |

| | LCS | LCSD | Acceptance |
|-----------------------|-----------|----------------|---------------|
| Surrogate | %Recovery | Qual %Recovery | Qual Criteria |
| 1,2-Dichloroethane-d4 | 98 | 104 | 70-130 |
| Toluene-d8 | 97 | 94 | 70-130 |
| 4-Bromofluorobenzene | 99 | 97 | 70-130 |
| Dibromofluoromethane | 96 | 96 | 70-130 |



Project Name: SCC Project Number: N30.009.001

| Parameter | LCS %Recovery | Qual | LCSD %Recover | 'y Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|----------------------------|------------------------------|------------|------------------|-------------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS | - Westborough Lab Associated | sample(s): | 01,03-13 Ba | tch: WG1567 | 192-3 WG1567192 | 2-4 | | | |
| Methylene chloride | 120 | | 120 | | 70-130 | 0 | | 20 | |
| 1,1-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 | |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 | |
| Carbon tetrachloride | 90 | | 93 | | 63-132 | 3 | | 20 | |
| 1,2-Dichloropropane | 100 | | 99 | | 70-130 | 1 | | 20 | |
| Dibromochloromethane | 82 | | 87 | | 63-130 | 6 | | 20 | |
| 1,1,2-Trichloroethane | 93 | | 99 | | 70-130 | 6 | | 20 | |
| Tetrachloroethene | 100 | | 100 | | 70-130 | 0 | | 20 | |
| Chlorobenzene | 99 | | 100 | | 75-130 | 1 | | 20 | |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 | |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 | |
| 1,1,1-Trichloroethane | 110 | | 100 | | 67-130 | 10 | | 20 | |
| Bromodichloromethane | 92 | | 96 | | 67-130 | 4 | | 20 | |
| trans-1,3-Dichloropropene | 80 | | 89 | | 70-130 | 11 | | 20 | |
| cis-1,3-Dichloropropene | 84 | | 87 | | 70-130 | 4 | | 20 | |
| Bromoform | 78 | | 81 | | 54-136 | 4 | | 20 | |
| 1,1,2,2-Tetrachloroethane | 91 | | 95 | | 67-130 | 4 | | 20 | |
| Benzene | 98 | | 96 | | 70-130 | 2 | | 20 | |
| Toluene | 96 | | 98 | | 70-130 | 2 | | 20 | |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 | |
| Chloromethane | 110 | | 100 | | 64-130 | 10 | | 20 | |
| Bromomethane | 110 | | 110 | | 39-139 | 0 | | 20 | |
| Vinyl chloride | 100 | | 98 | | 55-140 | 2 | | 20 | |
| | | | | | | | | | |



Lab Number: L2159331

Project Number: N30.009.001

SCC

Project Name:

Report Date: 11/04/21

| | LCS | | LCSD | | %Recovery | | | RPD | |
|---------------------------------------|----------------------|--------------|--------------|------------|-----------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recover | y Qual | Limits | RPD | Qual | Limits | |
| Volatile Organics by GC/MS - Westboro | ugh Lab Associated s | sample(s): (| 01,03-13 Bat | ch: WG1567 | 192-3 WG1567192 | 2-4 | | | |
| Chloroethane | 130 | | 130 | | 55-138 | 0 | | 20 | |
| 1,1-Dichloroethene | 120 | | 120 | | 61-145 | 0 | | 20 | |
| trans-1,2-Dichloroethene | 120 | | 120 | | 70-130 | 0 | | 20 | |
| Trichloroethene | 100 | | 99 | | 70-130 | 1 | | 20 | |
| 1,2-Dichlorobenzene | 100 | | 99 | | 70-130 | 1 | | 20 | |
| 1,3-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 | |
| 1,4-Dichlorobenzene | 99 | | 98 | | 70-130 | 1 | | 20 | |
| Methyl tert butyl ether | 110 | | 110 | | 63-130 | 0 | | 20 | |
| p/m-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 | |
| o-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 | |
| cis-1,2-Dichloroethene | 98 | | 98 | | 70-130 | 0 | | 20 | |
| Styrene | 110 | | 110 | | 70-130 | 0 | | 20 | |
| Dichlorodifluoromethane | 100 | | 96 | | 36-147 | 4 | | 20 | |
| Acetone | 110 | | 140 | | 58-148 | 24 | Q | 20 | |
| Carbon disulfide | 120 | | 120 | | 51-130 | 0 | | 20 | |
| 2-Butanone | 88 | | 91 | | 63-138 | 3 | | 20 | |
| 4-Methyl-2-pentanone | 76 | | 84 | | 59-130 | 10 | | 20 | |
| 2-Hexanone | 73 | | 84 | | 57-130 | 14 | | 20 | |
| 1,2-Dibromoethane | 93 | | 97 | | 70-130 | 4 | | 20 | |
| n-Butylbenzene | 110 | | 110 | | 53-136 | 0 | | 20 | |
| sec-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 | |
| tert-Butylbenzene | 100 | | 99 | | 70-130 | 1 | | 20 | |
| 1,2-Dibromo-3-chloropropane | 80 | | 88 | | 41-144 | 10 | | 20 | |



Lab Number: L2159331 Report Date: 11/04/21

Project Name: SCC **Project Number:** N30.009.001

| Parameter | LCS %Recovery | Qual | LC: %Rec | SD overy | Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|--|------------------|------------|-------------|-------------|----------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS - Westborough L | ab Associated | sample(s): | 01,03-13 | Batch: | WG156719 | 2-3 WG156719 | 2-4 | | | |
| Isopropylbenzene | 100 | | 10 | 00 | | 70-130 | 0 | | 20 | |
| p-Isopropyltoluene | 100 | | 1(| 00 | | 70-130 | 0 | | 20 | |
| Naphthalene | 73 | | 7 | 6 | | 70-130 | 4 | | 20 | |
| n-Propylbenzene | 110 | | 10 | 00 | | 69-130 | 10 | | 20 | |
| 1,2,4-Trichlorobenzene | 87 | | 8 | 9 | | 70-130 | 2 | | 20 | |
| 1,3,5-Trimethylbenzene | 100 | | 9 | 9 | | 64-130 | 1 | | 20 | |
| 1,2,4-Trimethylbenzene | 100 | | 10 | 00 | | 70-130 | 0 | | 20 | |
| Methyl Acetate | 110 | | 1 | 10 | | 70-130 | 0 | | 20 | |
| Cyclohexane | 100 | | 10 | 00 | | 70-130 | 0 | | 20 | |
| Freon-113 | 130 | | 1: | 30 | | 70-130 | 0 | | 20 | |
| Methyl cyclohexane | 97 | | 9 | 6 | | 70-130 | 1 | | 20 | |

| | LCS | LCSD | Ace | ceptance |
|-----------------------|-----------|----------------|--------|----------|
| Surrogate | %Recovery | Qual %Recovery | Qual C | Criteria |
| 1,2-Dichloroethane-d4 | 97 | 103 | | 70-130 |
| Toluene-d8 | 97 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 98 | 94 | | 70-130 |
| Dibromofluoromethane | 95 | 95 | | 70-130 |



Matrix Spike Analysis

| Project Name: SCC | Batch Quality Control |
|-------------------|-----------------------|
|-------------------|-----------------------|

 Lab Number:
 L2159331

 Report Date:
 11/04/21

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Qual Found | MSD 1 %Recovery | Recovery Qual Limits | RPD | RPD Qual Limits |
|--|------------------|-------------|----------------|-----------------|------------------------------|---------------------------|-------------------------|----------|-----------------------|
| Volatile Organics by GC/MS · ESI-3-102621 | - Westborough | Lab Asso | ciated sample(| (s): 01,03-13 | QC Batch ID: WG ² | 1567192-6 WG ² | 1567192-7 QC San | nple: L2 | 2159331-01 Client ID: |
| Methylene chloride | ND | 10 | 11 | 110 | 11 | 110 | 70-130 | 0 | 20 |
| 1,1-Dichloroethane | ND | 10 | 11 | 110 | 11 | 110 | 70-130 | 0 | 20 |
| Chloroform | ND | 10 | 11 | 110 | 11 | 110 | 70-130 | 0 | 20 |
| Carbon tetrachloride | ND | 10 | 11 | 110 | 11 | 110 | 63-132 | 0 | 20 |
| 1,2-Dichloropropane | ND | 10 | 9.8 | 98 | 10 | 100 | 70-130 | 2 | 20 |
| Dibromochloromethane | ND | 10 | 9.0 | 90 | 9.2 | 92 | 63-130 | 2 | 20 |
| 1,1,2-Trichloroethane | ND | 10 | 9.4 | 94 | 9.8 | 98 | 70-130 | 4 | 20 |
| Tetrachloroethene | ND | 10 | 10 | 100 | 10 | 100 | 70-130 | 0 | 20 |
| Chlorobenzene | ND | 10 | 9.3 | 93 | 9.8 | 98 | 75-130 | 5 | 20 |
| Trichlorofluoromethane | ND | 10 | 12 | 120 | 12 | 120 | 62-150 | 0 | 20 |
| 1,2-Dichloroethane | ND | 10 | 10 | 100 | 10 | 100 | 70-130 | 0 | 20 |
| 1,1,1-Trichloroethane | ND | 10 | 11 | 110 | 11 | 110 | 67-130 | 0 | 20 |
| Bromodichloromethane | ND | 10 | 9.9 | 99 | 10 | 100 | 67-130 | 1 | 20 |
| trans-1,3-Dichloropropene | ND | 10 | 8.2 | 82 | 8.5 | 85 | 70-130 | 4 | 20 |
| cis-1,3-Dichloropropene | ND | 10 | 8.1 | 81 | 8.4 | 84 | 70-130 | 4 | 20 |
| Bromoform | ND | 10 | 8.3 | 83 | 8.5 | 85 | 54-136 | 2 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 10 | 8.9 | 89 | 9.2 | 92 | 67-130 | 3 | 20 |
| Benzene | ND | 10 | 9.8 | 98 | 10 | 100 | 70-130 | 2 | 20 |
| Toluene | ND | 10 | 9.3 | 93 | 9.6 | 96 | 70-130 | 3 | 20 |
| Ethylbenzene | ND | 10 | 9.4 | 94 | 9.8 | 98 | 70-130 | 4 | 20 |
| Chloromethane | ND | 10 | 12 | 120 | 12 | 120 | 64-130 | 0 | 20 |
| Bromomethane | ND | 10 | 11 | 110 | 12 | 120 | 39-139 | 9 | 20 |
| Vinyl chloride | ND | 10 | 11 | 110 | 11 | 110 | 55-140 | 0 | 20 |



Matrix Spike Analysis

| Project Name: | SCC | Batch Quality Control |
|-----------------|-------------|-----------------------|
| Project Number: | N30.009.001 | |

| _ | Native | MS | _MS | MS | | MSD | MSD | | Recovery | | • | RPD |
|--|---------------|----------|----------------|--------------|----------|----------|-------------|---------|-----------|----------|---------|---------------|
| Parameter | Sample | Added | Found | %Recovery | Qual | Found | %Recovery | Qual | LIMIts | RPD | Quai | Limits |
| Volatile Organics by GC/MS - ESI-3-102621 | · Westborough | Lab Asso | ciated sample(| s): 01,03-13 | QC Batch | ID: WG15 | 67192-6 WG1 | 567192- | -7 QC San | nple: L2 | 159331- | 01 Client ID: |
| Chloroethane | ND | 10 | 14 | 140 | Q | 13 | 130 | | 55-138 | 7 | | 20 |
| 1,1-Dichloroethene | ND | 10 | 11 | 110 | | 12 | 120 | | 61-145 | 9 | | 20 |
| trans-1,2-Dichloroethene | ND | 10 | 12 | 120 | | 12 | 120 | | 70-130 | 0 | | 20 |
| Trichloroethene | 0.66 | 10 | 11 | 103 | | 11 | 103 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | ND | 10 | 8.0 | 80 | | 8.5 | 85 | | 70-130 | 6 | | 20 |
| 1,3-Dichlorobenzene | ND | 10 | 7.9 | 79 | | 8.6 | 86 | | 70-130 | 8 | | 20 |
| 1,4-Dichlorobenzene | ND | 10 | 7.8 | 78 | | 8.4 | 84 | | 70-130 | 7 | | 20 |
| Methyl tert butyl ether | ND | 10 | 9.9 | 99 | | 10 | 100 | | 63-130 | 1 | | 20 |
| p/m-Xylene | ND | 20 | 19 | 95 | | 20 | 100 | | 70-130 | 5 | | 20 |
| o-Xylene | ND | 20 | 19 | 95 | | 20 | 100 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Styrene | ND | 20 | 19 | 95 | | 20 | 100 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | ND | 10 | 11 | 110 | | 11 | 110 | | 36-147 | 0 | | 20 |
| Acetone | 5.5 | 10 | 14 | 85 | | 11 | 55 | Q | 58-148 | 24 | Q | 20 |
| Carbon disulfide | ND | 10 | 12 | 120 | | 12 | 120 | | 51-130 | 0 | | 20 |
| 2-Butanone | ND | 10 | 8.8 | 88 | | 10 | 100 | | 63-138 | 13 | | 20 |
| 4-Methyl-2-pentanone | ND | 10 | 7.5 | 75 | | 7.3 | 73 | | 59-130 | 3 | | 20 |
| 2-Hexanone | ND | 10 | 7.1 | 71 | | 7.6 | 76 | | 57-130 | 7 | | 20 |
| 1,2-Dibromoethane | ND | 10 | 9.5 | 95 | | 9.5 | 95 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | ND | 10 | 7.9 | 79 | | 8.4 | 84 | | 53-136 | 6 | | 20 |
| sec-Butylbenzene | ND | 10 | 9.1 | 91 | - | 9.7 | 97 | | 70-130 | 6 | | 20 |
| tert-Butylbenzene | ND | 10 | 9.1 | 91 | - | 9.6 | 96 | | 70-130 | 5 | | 20 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 7.6 | 76 | | 7.9 | 79 | | 41-144 | 4 | | 20 |



Matrix Spike Analysis

| Project Name: | SCC | Batch Quality Control | Lab Number: | L2159331 |
|-----------------|-------------|-----------------------|--------------|----------|
| Project Number: | N30.009.001 | | Report Date: | 11/04/21 |

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | RPD Qual Limits |
|--|------------------|-------------|-----------------|-----------------|----------|--------------|------------------|--------|--------------------|---------|----------------------|
| Volatile Organics by GC/MS - ESI-3-102621 | - Westborough | Lab Assoc | ciated sample(s | s): 01,03-13 | QC Batch | n ID: WG150 | 67192-6 WG1 | 567192 | -7 QC Sam | ple: L2 | 159331-01 Client ID: |
| Isopropylbenzene | ND | 10 | 9.4 | 94 | | 9.9 | 99 | | 70-130 | 5 | 20 |
| p-Isopropyltoluene | ND | 10 | 8.6 | 86 | | 9.3 | 93 | | 70-130 | 8 | 20 |
| Naphthalene | ND | 10 | 4.7 | 47 | Q | 5.2 | 52 | Q | 70-130 | 10 | 20 |
| n-Propylbenzene | ND | 10 | 8.9 | 89 | | 9.4 | 94 | | 69-130 | 5 | 20 |
| 1,2,4-Trichlorobenzene | ND | 10 | 5.5 | 55 | Q | 5.8 | 58 | Q | 70-130 | 5 | 20 |
| 1,3,5-Trimethylbenzene | ND | 10 | 8.6 | 86 | | 9.4 | 94 | | 64-130 | 9 | 20 |
| 1,2,4-Trimethylbenzene | ND | 10 | 8.3 | 83 | | 9.0 | 90 | | 70-130 | 8 | 20 |
| Methyl Acetate | ND | 10 | 10 | 100 | | 9.0 | 90 | | 70-130 | 11 | 20 |
| Cyclohexane | ND | 10 | 10 | 100 | | 11 | 110 | | 70-130 | 10 | 20 |
| Freon-113 | ND | 10 | 12 | 120 | | 13 | 130 | | 70-130 | 8 | 20 |
| Methyl cyclohexane | ND | 10 | 9.0J | 90 | | 9.6J | 96 | | 70-130 | 6 | 20 |

| | MS | | MS | D | Acceptance | |
|-----------------------|------------|----------------|---------|-----------|------------|--|
| Surrogate | % Recovery | Qualifier % Re | ecovery | Qualifier | Criteria | |
| 1,2-Dichloroethane-d4 | 108 | | 102 | | 70-130 | |
| 4-Bromofluorobenzene | 96 | | 94 | | 70-130 | |
| Dibromofluoromethane | 100 | | 99 | | 70-130 | |
| Toluene-d8 | 94 | | 94 | | 70-130 | |



Project Name: SCC Project Number: N30.009.001

Serial_No:11042114:29 Lab Number: L2159331 Report Date: 11/04/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A | Absent |

Container Information

| Container Info | ormation | | Initial | Final | Temp | | | Frozen | |
|----------------|--------------------|--------|---------|-------|-------|------|--------|-----------|-------------------|
| Container ID | Container Type | Cooler | рН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2159331-01A | Vial HCl preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01A1 | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01A2 | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01B1 | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01B2 | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01C1 | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-01C2 | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-02A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-02B | Vial HCl preserved | А | NA | | 2.4 | Υ | Absent | | NYTCL-8260-R2(14) |
| L2159331-02C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-03A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-03B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-03C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-04A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-04B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-04C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-05A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-05B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-05C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-06A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-06B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |



Project Name:SCCProject Number:N30.009.001

Serial_No:11042114:29 *Lab Number:* L2159331 *Report Date:* 11/04/21

| Container Info | rmation | | Initial | Final | Temp | | | Frozen | |
|----------------|--------------------|--------|---------|-------|-------|------|--------|-----------|-------------------|
| Container ID | Container Type | Cooler | pН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2159331-06C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-07A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-07B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-07C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-08A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-08B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-08C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-09A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-09B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-09C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-10A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-10B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-10C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-11A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-11B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-11C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-12A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-12B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-12C | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-13A | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2159331-13B | Vial HCI preserved | А | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |



Project Name: SCC

Project Number: N30.009.001

Serial_No:11042114:29

Lab Number: L2159331

Report Date: 11/04/21

Acronyms

| 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.) |
|----------|---|
| EDL | - 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. |
| LOD | - 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.) |
| LOQ | - 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 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 only.) |
| MDL | - 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. |
| MS | - 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. |
| NK | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile 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. |
| RPD | - 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. |
| TEQ | - 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. |

GLOSSARY

Report Format: DU Report with 'J' Qualifiers



| Project Name: | SCC | Lab Number: | L2159331 |
|-----------------|-------------|--------------|----------|
| Project Number: | N30.009.001 | Report Date: | 11/04/21 |

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.

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 Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. 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, Benz(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.

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.)

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

- Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in A the process.
- В - 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).
- С - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Е - 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.
- н - 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.
- J - 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 Identified Compounds (TICs).
- М - 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.

Report Format: DU Report with 'J' Qualifiers



Serial_No:11042114:29

| Project Name: | SCC | Lab Number: | L2159331 |
|-----------------|-------------|--------------|----------|
| Project Number: | N30.009.001 | Report Date: | 11/04/21 |

Data Qualifiers

- 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.
- V 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.)



Project Name: SCC Project Number: N30.009.001

 Lab Number:
 L2159331

 Report Date:
 11/04/21

REFERENCES

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

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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: <u>NPW</u>: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; <u>SCM</u>: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: <u>NPW:</u> Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; <u>SCM</u>: Dimethylnaphthalene,1,4-Diphenylhydrazine. **SM4500**: <u>NPW</u>: Amenable Cyanide; <u>SCM</u>: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS EPA 8082A: <u>NPW</u>: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. 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 332: Perchlorate; 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 I. Endosulfan II.

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

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.

Serial_No:11042114:29

| | NEW YORK CHAIN OF CUSTODY | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker V Tonawanda, NY 14150: 275 Co | y Rd, Suite 5 Vay oper Ave, Suite 10 | 05 | Page of | 2 | Dat | te Rec'd n Lab | [4 | plali | 81 | ALPHA JOB # L 215932 | , |
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| 8 Walkup Dr. TEL: 508-898-9220 | 320 Forbes Blvd TEL: 508-822-9300 | Project Name: | Z | | 1 | | AS | P-A | | ASP-B | | Same as Client Info | |
| FAX: 508-898-9193 | FAX: 508-822-3288 | Project Location: | alcone | C. AL | 1 | | EC | ulS (1 File) | | EQuIS (4 | File) | PO NZO 009 00 | 1 |
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Serial_No:11042114:29

| ALPHA Worthcrough MA 01581 | NEW YORK CHAIN OF CUSTODY | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Coc | Rd, Suite 5 ay aper Ave, Suite 105 | Page 2 of Z | Date Re in La | ec'd b | 10/29/21 | ALPHA JOB # L215933 | 1 |
|--|--|--|---|---|----------------------|-----------|-----------------------------|---|---|
| 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Project Information Project Name: 32 Project Location: 32 | Caner, A | X/ | Deliverables | 1 File) |] ASP-B] EQuIS (4 File) | Billing Information | X |
| Client Information | Engineers | Vise Project name as Project | | <u> </u> | Regulatory Re | quirement | | Disposal Site Information | |
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| | | | | | | | | | + |
| Preservative Code: A = None 3 = HCl 2 = HNO ₃ 0 = H ₂ SO ₄ = NaOH = MeOH 3 = NaHSO ₄ H = Na ₂ S ₂ O ₃ | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore | Westboro: Certification No Mansfield: Certification No Relinquished B | 2: MA935 2: MA015 2: Date 0/28/2 | Container Typ Preservativ Time 2/ 2:30 4 | Received By: | AL 101 | Date/Time | Please print clearly, legib and completely. Samples not be logged in and turnaround time clock wil start until any ambiguities resolved. BY EXECUTIN THIS COC, THE CLIENT | ll not s can ll not s are IG f |
| K/E = Zn Ac/NaOH D = Other | D = BOD Bottle | YART | AAL 10 hrs | 10 1618 | Mining | 5 10 | 121/21/01/10 | TO BE BOUND BY ALPH TERMS & CONDITIONS (See reverse side.) | :S HA'S |

APPENDIX B GROUNDWATER USE CERTIFICATION

Jamestown Container Realty Inc. 14 Deming Drive Falconer, NY 14733

October 27, 2021

Re: Site Name:Dowcraft, South Dow StreetSite No:907020Site Address:65 South Dow Street, Falconer, NY 14733

To Whom It May Concern,

This confirms that the above referenced property is owned by Jamestown Container Realty Inc. As the property owner, Jamestown Container Realty Inc. herby certifies that it is not using any ground water drawn from the property.

If you need anything further, please advise.

Sincerely,

Imen 12goh

Joseph R, Palmeri Vice President / COO

100

APPENDIX C

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



| | Site Details | Box 1 |
|----------------------------|--|---|
| Sit | e No. 907020 | |
| Sit | e Name Dowcraft, South Dow Street | |
| Site City Co Site | e Address: 65 South Dow Street Zip Code: 14733 y/Town: Falconer ounty:Chautauqua e Acreage: 2.200 | |
| Re | porting Period: October 31, 2020 to October 31, 2021 | |
| | | YES NO |
| 1. | Is the information above correct? | \times \circ |
| | If NO, include handwritten above or on a separate sheet. | |
| 2. | Has some or all of the site property been sold, subdivided, merged, or underg tax map amendment during this Reporting Period? | one a |
| 3. | Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | |
| 4. | Have any federal, state, and/or local permits (e.g., building, discharge) been is for or at the property during this Reporting Period? | ssued |
| | If you answered YES to questions 2 thru 4, include documentation or evinthat documentation has been previously submitted with this certification | idence ı form. |
| 5. | Is the site currently undergoing development? | |
| | | |
| | | Box 2 |
| 8 | | YES NO |
| 6. | Is the current site use consistent with the use(s) listed below? Industrial | λ . |
| 7. | Are all ICs in place and functioning as designed? | X D |
| Λ. | IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date I DO NOT COMPLETE THE REST OF THIS FORM. Otherwise cont Corrective Measures Work Plan must be submitted along with this form to add | below and inue. dress these issues. |
| A | CONCLUYE MEASURES WORK I TAIL HUST DE SUDHITTEN ATONY WITH THIS TOTHE TO DAY | |
| Sig | gnature of Owner, Remedial Party or Designated Representative | Date |

| SITE NO. 907020 | 2 | Box 3 |
|-------------------------|--|--|
| Description of Institut | ional Controls | |
| Parcel | <u>Owner</u> | Institutional Control |
| 104-12-2 | Bruce Janowski, Jamestown Container Real | Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan |
| | | Box 4 |
| Description of Engine | ering Controls | |
| None Required | | |
| Not Applicable/No EC's | | |

| | | Box 5 | |
|--|----------------------------|-----------------------|--|
| Periodic Review Report (PRR) Certification Statements | | | |
| . I certify by checking "YES" below that: | | | |
| a) the Periodic Review report and all attachments were prepared under the dir reviewed by, the party making the Engineering Control certification; | rection of, | and | |
| b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gen | d in this ce erally acc | ertification epted | |
| engineering practices; and the information presented is accurate and compete. | YES | NO | |
| | × | | |
| Por each Engineering control listed in Box 4, I certify by checking "YES" below that a following statements are true: | ll of the | | |
| (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the D | epartmen | t; | |
| (b) nothing has occurred that would impair the ability of such Control, to protect the environment; | ct public h | ealth and | |
| (c) access to the site will continue to be provided to the Department, to evalua remedy, including access to evaluate the continued maintenance of this Contro | ite the ol; | | |
| (d) nothing has occurred that would constitute a violation or failure to comply v Site Management Plan for this Control; and | with the | | |
| (e) if a financial assurance mechanism is required by the oversight document mechanism remains valid and sufficient for its intended purpose established in | for the sit the docu | e, the ment. | |
| | YES | NO | |
| | X | | |
| IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue. | | | |
| A Corrective Measures Work Plan must be submitted along with this form to address | these is: | sues. | |
| Signature of Owner, Remedial Party or Designated Representative Date | | | |

| IC CERTIFICATIONS SITE NO. 907020 |
|--|
| Box 6 |
| SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. CASE Try intersonal constraints of the the true of true of the true of tr |
| for the Site named in the Site Details Section of this form. Signature of Owner, Remedial Party, or Designated Representative Rendering Certification |

APPENDIX D

OPERATION, MAINTENANCE AND MONITORING WORK PLAN

OPERATION, MAINTENANCE AND MONITORING WORK PLAN

FOR

FORMER DOWCRAFT SITE FALCONER, NEW YORK

Prepared by:



C&S ENGINEERS, INC. 141 ELM STREET, SUITE 100 BUFFALO, NEW YORK 14203

MARCH 2018

TABLE OF CONTENTS

| <u>1</u> | INTRODUCTION | 4 |
|----------|---|----|
| 1.1 | BACKGROUND AND SITE DESCRIPTION | 4 |
| <u>2</u> | SUMMARY OF ENVIRONMENTAL CONDITIONS | 5 |
| 1.2 | CONTAMINANTS OF CONCERN | 5 |
| 1.3 | GEOLOGY AND HYDROGEOLOGY | 6 |
| 1.4 | EXTENT OF CONTAMINATION | 6 |
| <u>3</u> | OBJECTIVES, SCOPE AND RATIONALE | 6 |
| 3.1 | GROUNDWATER CONTAMINATION | 6 |
| 3.2 | SOIL VAPOR CONTAMINATION | 7 |
| <u>4</u> | REMEDIAL ACTION MONITORING AND REPORTING | 8 |
| 4.1 | GROUNDWATER MONITORING PROGRAM | 8 |
| 4.1.1 | Monitoring Well Network | 8 |
| 4.1.2 | GROUNDWATER MONITORING | 9 |
| 4.1.3 | WELL INSPECTION AND MAINTENANCE | 9 |
| 4.2 | SUB-SLAB DEPRESSURIZATION SYSTEM COMPONENTS | 9 |
| 4.2.1 | BUILDING 9 SYSTEM | 9 |
| 4.2.2 | BUILDING 5 AND 6 SYSTEM | 10 |
| 4.3 | SUB-SLAB DEPRESSURIZATION SYSTEM OPERATION | 11 |
| 4.4 | SOIL VAPOR MONITORING PROGRAM | 11 |
| 4.4.1 | WEEKLY MONITORING | 11 |
| 4.4.2 | ANNUAL INSPECTION | 12 |
| 4.5 | CONTACT INFORMATION | 12 |
| 4.6 | SAMPLING METHODS, ANALYTICAL PROCEDURES AND DOCUMENTATION | 13 |
| 4.6.1 | SAMPLING METHODS | 13 |
| 4.6.2 | ANALYTICAL PROCEDURES | 14 |
| 4.6.3 | DOCUMENTATION | 14 |
| <u>5</u> | HEALTH AND SAFETY | 14 |
| <u>6</u> | REPORTING | 15 |
| <u>7</u> | SCHEDULE | 15 |

FIGURES

| FIGURE 1 | |
|----------|------------------------|
| FIGURE 2 | GROUNDWATER MONITORING |

APPENDICES

| APPENDIX A | |
|------------|---|
| APPENDIX B | |
| APPENDIX C | SUB-SLAB DEPRESSURIZATION CONSTRUCTION COMPLETION REPORTS |

ACRONYM LIST

| OM&M Plan | OPERATION, MONITORING AND MAINTENANCE PLAN | |
|-----------|---|--|
| JCC | JAMESTOWN CONTAINER COMPANY | |
| TCE | TRICHLOROETHENE | |
| IRM | INTERIM REMEDIAL MEASURE | |
| ROD | RECORD OF DECISION | |
| CRA | CONESTOGA-ROVERS & ASSOCIATES | |
| COC | CONTAMINANTS OF CONCERN | |
| DNAPL | DENSE NON-AQUEOUS PHASE LIQUID | |
| BGS | BELOW GROUND SURFACE | |
| NYSDOH | NEW YORK STATE DEPARTMENT OF HEALTH | |
| SSDS | SUB-SLAB DEPRESSURIZATION SYSTEM | |
| HASP | HEALTH AND SAFETY PLAN | |
| MS/MSD | MATRIX SPIKE / MATRIX SPIKE DUPLICATE | |
| U.S. EPA | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY | |

1 INTRODUCTION

C&S Engineers, Inc. (C&S) has prepared this Operation, Maintenance and Monitoring (OM&M) Plan on behalf of Jamestown Container Companies (JCC) for the former Dowcraft facility (the Site).

1.1 Background and Site Description

The Dowcraft Site is located at 65 South Dow Street in Falconer, New York and occupies approximately 2.2 acres of land situated immediately east of South Dow Street and approximately 100 feet south of the Chadakoin River. The Jamestown Container manufacturing building is situated between the Site and the Chadakoin River.

The property was first developed in 1890 as a woolen mill until 1939 when it was converted into a factory which manufactured steel partitions used for offices. As part of this manufacturing process, a vapor degreaser was used which included the use of chemicals such as trichloroethene (TCE). This work continued until 1999 when the facility was closed, a portion of the Site was demolished, and the property was sold to JCC.

Figure 1 presents present and historic site features.

The Site was the subject of environmental investigations in the early 1990s, at which time contaminated groundwater was discovered on site. An interim remedial measure (IRM) was subsequently put in place in 1994 which consisted of groundwater extraction and treatment. In 2000, the use of additional groundwater remediation technologies was approved by the NYSDEC which involved in-situ chemical oxidation of TCE through the injection of potassium permanganate into the overburden groundwater. In 2003, a Record of Decision (ROD) was approved that selected the following remedy:

-) In-situ groundwater treatment through chemical oxidation, by injection of potassium permanganate dissolved in water, through existing well points into the shallow overburden groundwater table;
-) Overburden groundwater monitoring to verify the effectiveness of the treatment;
-) Institutional controls to prevent the use of groundwater as a source of potable water; and
- Annual certification to NYSDEC to certify that institutional controls remain in place.

Conestoga-Rovers & Associates (CRA) conducted nine injection treatments between May 2000 and July 2006, totaling 21,500 pounds of potassium permanganate. Previous injection treatments were successful in oxidizing some TCE; however, the concentrations of TCE in the source area remain high.

Injections were conducted on December 1 through 9, 2014. Two methods were implemented in treating the contaminated groundwater. The first method included the injection of a solution of 4,024.12 pounds of potassium permanganate in ten borings. The second method included the placement of potassium permanganate cylinders as a treatment adjacent to PW-3R and installation of cylinders in monitoring wells inside the JCC building.

The fifth round of post-treatment sampling suggests that the potassium permanganate injections and cylinders appear to be effective in treating the groundwater contaminants in many wells.

2 <u>SUMMARY OF ENVIRONMENTAL CONDITIONS</u>

1.2 Contaminants of Concern

Chlorinated solvents, primarily, trichloroethene and its daughter compounds, were identified as the contaminants of concern (COC) for this Site. TCE is a man-made volatile organic compound used for degreasing metal and electronic parts. Remedial considerations for TCE include its low solubility value and heavy molecular weight. TCE is in a class of chemicals called dense non-aqueous phase liquids (DNAPL) that sink through the water column until they encounter an impermeable barrier.

Groundwater contaminant plumes with TCE can undergo a process of reductive dechlorination, during which chlorine atoms are stripped from TCE and daughter compounds are produced. The rate of dechlorination can vary based on:

- Amount of TCE in the subsurface;
- Amount of organic material; and
- Type and concentration of electron acceptors available in the system.

The process of TCE reductive dechlorination is shown below:



1.3 Geology and Hydrogeology

Site geology consists of fill material overlying two sand/gravel layers separated by a silt/clay lens. Fill material consists of a mixed matrix of sand, cinders, silt, gavel, brick, concrete, coal, slag and metal. The fill unit ranges in thickness from 2 to over 14 feet with an average thickness of 8 feet.

The upper sand/gravel layer ranges from 10 to 20 feet in thickness. Underlying the upper sand/gravel layer is a silt/clay lens that ranges from 4 to 8 feet in thickness. The lower sand/gravel layer is 10 to 18 feet thick. Underlying the lower sand layer is a second silt/clay layer that starts approximately 43 feet below ground surface (BGS). This unit is estimated to be 60 feet in thickness according to regional geology.

The average depth to groundwater is 10 feet BGS within the upper sand/gravel layer. Groundwater flow within the upper sand/gravel layer is to the north-northeast at approximately 2.7 feet per year. Figure 2 shows the inferred groundwater flow direction in the upper sand/gravel layer. The silt/clay layer overlying the lower sand/gravel layer is acting as an aquitard for deeper groundwater and is creating a semi-confined aquifer.

1.4 Extent of Contamination

According to previous environmental reports, the area of former degreaser pit (area of groundwater monitoring wells PW-3 and PW-3R) is a likely source area for the COC plume. The plume originates from the degreaser area and has affected groundwater in the upper and lower sand/gravel layers. The plume extends from the degreaser area to the north, under the JCC building and up to the area of the Chadakoin River. This is an area of approximately one acre. The rate of movement is approximately 2 to 3 feet per year to the north.

3 OBJECTIVES, SCOPE AND RATIONALE

The objectives of the scope of work described in this Work Plan are to monitor the natual attenuation of the groundwater contamination and periodically inspect the operation of two soil vapor mitigation systems over five years.

3.1 Groundwater Contamination

As stated in the 2003 ROD, the remedial goals selected for this Site are:

-) Treat the source area of groundwater contamination by oxidative de-chlorination of the contaminants in place;
- Prevent exposure of human receptors to contaminated groundwater in the sand and gravel unit under Site;
- Prevent or mitigate, to the maximum extent practicable, COC migration via groundwater so that releases from the underlying sand and gravel unit to the Chadakoin River do not exceed applicable standards, criteria and guidance;
-) Prevent or mitigate, to the maximum extent practicable, the migration of contaminated groundwater to off-site areas;
-) Restore on-Site groundwater in the sand and gravel unit to the maximum extent practicable which will not result in exceedances of applicable standards, criteria and guidance; and

Monitor the groundwater in a manner to verify the effectiveness of the remedial actions.

Two IRMs have been conducted at the Site. The first IRM involved the operation of a groundwater pump & treat system between 1994 and 1999. The second IRM consisted of CRA conducting nine injection treatments between May 2000 and July 2006, totaling 21,500 pounds of potassium permanganate and one injection of soy lactate have been completed and have dramatically reduced the concentrations of COCs in groundwater in the area of the former TCE degreaser pit. C&S conducted one injection in December 2014, totaling 4,024.12 pounds of potassium permanganate, and installed a potassium permanganate treatment fence. These efforts have further reduced COC concentrations.

C&S has reviewed the criteria outlined by the EPA on evaluating the potential for natural attenuation on sites contaminated with chlorinated solvents. Based on groundwater quality results from past groundwater monitoring events, C&S believes that natural attenuation via anaerobic biodegradation could effectively degrade the remaining COCs in the on-site groundwater.

C&S proposes the next remedial action for the Site consist of monitored natural attenuation for five years in addition to existing institutional controls to prohibit the use of impacted Site groundwater. The sections below outline the sampling plan, maintenance/monitoring protocols and reporting for the natural attenuation monitoring.

3.2 Soil Vapor Contamination

On November 2, 2015, Centek Laboratories performed the SVI sampling with the assistance of JCC maintenance staff. A total of nine sub-slab samples and nine indoor air samples installed within two buildings. Sub-slab air samples indicate that TCE contaminated soil vapor has impacted the subsurface underneath both of the buildings. After review of the SVI study, the New York State Department of Health (NYSDOH) required the installation of a mitigation system address soil vapor concerns.

Two separate sub-slab depressurization systems (SSDS) were designed and recently installed to mitigate the migration or potential migration of subsurface vapors into the building interiors. As stated in the Sub-Slab Depressurization System Work Plan (provided in **Appendix A**) C&S proposes to monitor the SSDS for five years.

April 2017, Jamestown Container Companies – 65 South DOW St., Falconer, NY 14733 Construction Completion Report for SSD System – Building 9, prepared by Mitigation Tech Vapor Intrusion Specialists.

The building was assessed by confirmatory sub-slab air communication testing at the job start to refine data obtained from the preliminary building assessment. The system, comprised of two fans, suction cavities, and other SSD system components, was constructed on March 21 through 27, 2017. Vacuum and air flow measurements were performed continuously during construction to ensure design integrity.

As-built sketches of the system are provided in Appendix C.

October 2017, Jamestown Container Companies – 65 South DOW St., Falconer, NY 14733 Construction Completion Report for SSD System – Building 5 & 6, prepared by Mitigation Tech Vapor Intrusion Specialists. This document presented a construction report, performance evaluation, O&M recommendations, and certification of effectiveness for the SSDS and Crawlspace Ventilation System (CVS) installed by Mitigation Tech. Following a Design/Build SSD construction plan that was modified based on continuing assessment performed during construction, five single suction point SSD systems were installed using principles and equipment typically used for soil vapor intrusion mitigation in buildings in compliance with the NYSDOH document, "Guidance for Evaluation Soil Vapor Intrusion in the State of New York, October 2006."

The building was assessed by extensive sub-slab air communication testing at job start to refine data obtained from the preliminary building assessment. Due to a system of sub-slab structural arches and crisscrossing grade beams, sub-slab spaces were either inaccessible or difficult to access. In the case of Building 5, extensive backfilling has occurred such that the soil is present immediately below the floor in the central and northernmost portions of the foundation. The southernmost portion is an open crawlspace with a dirt floor. Mitigation Tech determined that active ventilation of the southernmost sub-slab compartment bounded by buildings 4 and 6A would constitute a zone of defense to intercept soil vapor migrating from the south which would also create some limited depressurization north of the first grade beam. In the case of Building 6, the sub-space is in essence a crawlspace so ventilation was determined the most appropriate strategy to divert vapors from the building interior.

The system, comprised of five independent fan systems, suction cavities, and other SSD system components, was constructed on August 4 through 7, 2017. Vacuum and air flow measurements were performed continuously during construction to ensure design integrity.

As-built sketches of the system are provided in Appendix C.

4 <u>REMEDIAL ACTION MONITORING AND REPORTING</u>

The Remedial Action Monitoring Program will consist of monitoring of Site groundwater on annual basis and the performance of the SSDS on a weekly/annual. The data collected will be used to evaluate the performance of the remedial action and to meet the monitoring requirements.

The following subsections present the details of the monitoring program including specific sample collection, sample analyses, and reporting tasks.

4.1 Groundwater Monitoring Program

A groundwater monitoring program has been designed to provide the data necessary to demonstrate the effectiveness of natural attenuation

4.1.1 Monitoring Well Network

The Site contains a total of 23 monitoring wells installed in November 1990, November 1991, and April 1992. The monitoring wells below have been shown to be directly within the contaminant plume.

| ESI - 1 | ESI - 11 |
|---------|-----------|
| ESI - 2 | ESI - 12 |
| ESI - 3 | ESI - 13R |
| ESI - 6 | PW - 1 |
| ESI - 7 | PW - 3R |

ESI - 10

It should be noted that PW-2 has been previously sampled by other consultants; however, during groundwater monitoring conducted by C&S on July 2, 2013, PW-2 could not be developed and sampled because piping was located in the well that could not be removed. Monitoring well ESI - 6 is located within six feet of PW-2 and was developed and sampled as a substitute for PW-2.

4.1.2 Groundwater Monitoring

To characterize groundwater conditions at the Site, 11 existing monitoring wells will be sampled annually. The groundwater samples will be analyzed for Target Compound List (TCL) VOCs. The locations of the monitoring wells to be sampled are shown in **Figure 2**.

Groundwater sampling will be conducted using low-flow purging and sampling techniques. Before purging the well, water levels will be measured using an electric water level sounder capable of measuring to the 0.01-foot accuracy. Peristaltic or bladder pumps using manufacturer-specified tubing will be used for purging and sampling groundwater. Calibration, purging and sampling procedures will be performed as specified by the USEPA¹ for low-flow sampling. Decontamination will be conducted after each well is sampled to reduce the likelihood of cross contamination. Calibration times, purging volumes, water levels and field measurements will be recorded in a field log.

Purge fluids will be treated with activated carbon prior to being allowed to infiltrate the ground surface of the Site.

4.1.3 Well Inspection and Maintenance

All on-site wells will be inspected annually in conjunction with a groundwater monitoring event. Wells will be inspected for structural damage to the well cap seal, protective pad, and visible portion of the well casing. The presence and condition of J-plugs and locks also will be noted. In addition, the open depth of the well will be sounded. Deficiencies in or damages to the wells will be corrected or repaired as necessary.

The well inspection and maintenance program will continue until the remedial action (including monitoring) is complete. Once the project has been completed, all wells will be decommissioned following CP-43: Groundwater Monitoring Well Decommissioning Policy.

4.2 Sub-slab Depressurization System Components

- 4.2.1 Building 9 System
 -) Two sidewall mounted fans connected by manifold piping to vapor extraction points.
 - Suction Points: The suction points consists of a 5" core boring into the slab through which 1- 2 cubic feet of sub-slab material has been removed. Mechanically suspended 3" SCH 40 PVC pipe has been inserted into the boring and sealed with urethane sealant.

¹ U.S. EPA Region 1 Low Stress (low-flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, January 19, 2010.

-) Riser Piping: The riser piping consists of 3" SCH 40 PVC pipe that follows a route from the extraction point to a 4" trunk line, then to the exterior mounted vacuum fan. Weatherproof flashing or sealant has been applied to all penetrations.
- Exhaust Fans: Exhaust fans has been field selected for specific performance properties. Models: 1) Festa Radon Technologies "Force" producing 4.5 wci at 55 CFM, at 300 watts; 2) RADONAWAY RP-265, producing 2.0 wci at 50 CFM, at 120 watts. Fans have an exterior disconnect switch. Fans are mounted with rubber Fernco couplings, for simplified replacement. No air intakes are present within 10' of the exhaust points.
-) Instrumentation and Control: There is no centralized instrumentation or control for the SSDS. The fans can be switched either from the adjacent positioned disconnect or at the marked breakers #36 and #42 on the panel box centrally located on the east wall. The exhaust fan systems are equipped with a vacuum indicator mounted in a visible location on a riser pipe per the attached schematic. The indicator consists of an oil filled U-tube style manometer. The indicator can be inspected by observing the level of colored fluid. The indicator is designed primarily to give a simple visual check that vacuum is present in the riser pipe, specifically by observation that the fluid levels on each side of the indicator are not even. Indicator is marked at level observed on March 27, 2017.
-) Sealing measures: Polyurethane sealants have been applied to control joints, floor cracks and slab penetrations to enhance the barrier between sub-slab and ambient air and improve the efficiency of the SSD System. Smoke testing has been employed to guide sealing operations. Materials used include Sika Sikaflex 1c-SL self leveling sealant.
- 4.2.2 Building 5 and 6 System
 - Five sidewall mounted fans connected to vapor extraction points.
 -) Suction Points: The suction points consists of a 10" core boring into the slab directly to crawlspace voids. Mechanically suspended 8" SCH 40 PVC pipe has been inserted into the boring and sealed with urethane sealant.
 -) Riser Piping: The riser piping consists of 8" SCH 40 PVC pipe that follows a route from the extraction point to the exterior mounted vacuum fan.
 -) Exhaust Fans: Exhaust fans were field selected for specific performance properties. Model: RADONAWAY RP-380 producing 5.0 wci at 350 CFM, at 140 watts. Fans have an exterior disconnect switch. Fans are mounted with rubber Fernco couplings, for simplified replacement.
 -) Instrumentation and Control: There is no centralized instrumentation or control for the SSDS. The fans can be switched either from the adjacent positioned disconnect or at the marked breakers on the panel box centrally located. The exhaust fan systems are equipped with a vacuum indicator mounted in a visible location near the riser pipe per the attached schematic. The indicator consists of a dial style manometer, Dwyer Model 5001 or oil filled U-tube. The indicator can be inspected by observing the position of the dial needle or oil level. The indicator is designed primarily to give a simple visual check that vacuum is present in the riser pipe. Indicator is marked at level observed on August 4, 2017.
) Sealing measures: Polyurethane sealants have been applied to control joints, floor cracks and slab. Smoke testing has been employed to guide sealing operations. Materials used include Sika Sikaflex 1c-SL self leveling sealant.

4.3 Sub-slab Depressurization System Operation

By design, other than the fans and electrical system, the SSDS has relatively few components that could fail and affect operation. The system fans are designed by the manufacturer for a long operational lifespan. At the end of this lifespan, the fan should be replaced, as necessary, with an equivalent or better performance unit. In the event of failure of the SSDS electrical components (breakers, switches, etc.), the component should be repaired or replaced by a licensed electrical contractor. Where necessary, the subcontractor that installed the system (Mitigation Tech) could be contacted to discuss the problem. In the event the subcontractor is not able to assist in fixing the problem, a licensed subcontractor should be contacted to correct the problem and return the SSDS to normal operation. Other SSDS contacts are provided in Section 4.5. A summary of the operation requirements provided in Mitigation Tech's Construction Completion Report is provided below.

-) The fans should be kept in continuous operation.
-) Reset: Fans restart automatically in event of power loss.
-) In the event of unusual fan noise, failure to start, physical damage, or repeated circuit breaker trip, turn fan off and call for service.
- Regularly inspect system oil filled U-tube type manometers to verify that value, indicated by a mark on the gauge, has not changed significantly from the position of the mark. Gauge is inspected by observing the level of colored fluid.
-) Normal system operation requires unchanged structural conditions. Report any changes in structure, HVAC systems, slab conditions, etc., so that the change can be evaluated for impact on the SSD System.
- Ensure that a periodic inspection is performed

4.4 Soil Vapor Monitoring Program

4.4.1 Weekly Monitoring

Weekly monitoring will be conducted as follows:

-) Inspect fan vacuum indicator to verify that value, indicated by a mark on the gauge, has not changed significantly from the position of the mark. Gauge is inspected by observing the level of colored fluid.
-) Record the observed measurement for each fan vacuum indicator on form labeled "SSD System Vacuum Gauge Record". Store all forms in the facility maintenance office.
-) Inspect visible components of SSD system for degraded condition.

4.4.2 Annual Inspection

Annual inspection will be conducted as follows:

-) Conduct a visual inspection of the complete system (e.g., vent fans, piping, warning devices, labeling).
-) Inspect all components for condition and proper operation.
- J Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYS DOH VI Guidance (i.e.; with the systems running, use smoke sticks to check for leaks through concrete cracks, floor joints and at the suction points; any leaks will be resealed until smoke is no longer observed flowing through the opening).
-) Inspect the exhaust or discharge point of each exhaust fan to verify that no air intakes have been located within 10 feet.
- Conduct pressure field extension testing to ensure that the system is maintaining a vacuum beneath the entire slab. Perform a differential pressure reading at least one vacuum test point.
-) Interview appropriate building occupants seeking comments and observations regarding the operation of the system.
-) Confirm that the circuit breakers controlling the circuits on which the soil vapor vent fans operate are labeled "Soil Vapor System."

4.5 Contact Information

The following is a list of contacts for use regarding the SSDS operation, maintenance and monitoring:

Environmental Consultant

C&S Engineers, Inc. Cody Martin 141 Elm Street Buffalo NY, 14203 (716) 955-3021

SSDS Installation Contractor

Mitigation Tech Nicholas Mouganis 55 Shumway Road Brockport, NY 14420 (585) 637-7430

4.6 Sampling Methods, Analytical Procedures and Documentation

4.6.1 Sampling Methods

Sampling procedures will be conducted in accordance with the NYSDEC *Sampling Guidelines and Protocols Manual*. Collection of representative samples will include the following procedures:

- Ensuring that the sample taken is representative of the material being sampled;
- Using proper sampling, handling and preservation techniques;

Properly identifying the collected samples and documenting their collection in field records;

- Maintaining chain-of-custody; and
- Properly preserving samples after collection.

Water Sampling

Groundwater sampling will be conducted in accordance with USEPA guidance for low-flow purging and sampling, as described in **Section 4**.

Water samples will be collected in 40 ml vial and immediately placed on ice. The water will be analyzed for VOC on a standard turnaround time.

In addition to collecting VOC samples for laboratory analysis, groundwater chemistry will be continuously monitored during sample collection. Groundwater chemistry will be monitored for the following:

pH;
Turbidity;
Oxidation Reduction Potential;
Specific Conductance;
Dissolved Oxygen; and
Temperature

QA/QC Sampling

Table 4-1 summarizes the sampling program described in the sections above. Additionally, Quality Assurance/Quality Control (QA/QC) samples will be collected, and the following describes the minimum number of groundwater QA/QC samples.

- Trip blank 1 per shipment
- Blind Duplicate 1 per monitoring event
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) 1 MS / 1 MSD per monitoring event

| Sample Type | Matrix | Estimated Samples | Estimated Samples | Purpose |
|-----------------------|--------|-----------------------|----------------------|------------------|
| | | (one sample event) | (total – 5 years |) |
| Groundwater | Water | 11 | 55 | Characterization |
| Duplicate Groundwater | Water | 1 | 5 | QA/QC (VOC Only) |
| MS/MSD – Aq. | Water | 1/1 | 5/5 | QA/QC (VOC Only) |
| | Total | 14 | 70 | |

Table 4-1: Summary of Estimated Sampling

4.6.2 Analytical Procedures

Laboratory Analysis

Laboratory analysis will be conducted by a third-party laboratory that is accredited by the NYSDOH Environmental Laboratory Accreditation Program (ELAP). Laboratory analytical methods will include the most current NYSDEC Analytical Services Protocol (ASP).

Groundwater samples sent to a certified laboratory will be analyzed in accordance with EPA SW-846 methodology for Target Compound List for Volatile Organic Compounds (USEPA Method 8260) and Chloride (USEPA Method 9251).

4.6.3 Documentation

Custody Procedures

As outlined in NYSDEC *Sampling Guidelines and Protocols*, a sample is in custody under the following conditions:

- It is in your actual possession;
- It is in your view after being in your physical possession;
- It was in your possession and then you locked or sealed it up to prevent tampering; or
- It is in a secure area.

The environmental professional will maintain all chain-of-custody documents that will be completed for all samples that will leave the Site to be tested in the laboratory.

5 HEALTH AND SAFETY

A Health and Safety Plan (HASP) was prepared that details procedures for maintaining safe working conditions and minimizing the potential for exposure to hazardous material. The HASP is provided in **Appendix B**.

6 **<u>Reporting</u>**

Monitoring Reports will be submitted to NYSDEC annually. The Monitoring Reports will include:

- Analytical results and appropriate QA/QC data
- / Hydraulic monitoring data
- An evaluation of the effectiveness of the Remedial Action
- Recommendations for program revisions, if appropriate

An Annual Periodic Review Report will also be submitted and will include:

- J Monitoring Plan Compliance Report
-) An evaluation of the performance, effectiveness and protectiveness of the Remedial Action
- J Institutional and Engineering Controls Compliance Report
- *J* Operation and Maintenance Compliance Report
- Recommendations for program revisions, if appropriate

7 <u>SCHEDULE</u>

The schedule for Site work is as follows:

- *Initiating* Groundwater Sampling Event:
 - Within 30 days of NYSDEC approval of this Work Plan.
- *J* Groundwater Monitoring:
 - Annually for five years.
 - After five years, JCC, C&S and the NYSDEC will discuss the status of the OM&M Plan.
- *J* Reporting:
 - Periodic Review / Monitoring Report will be submitted annually starting 15 months after approval of the Work Plan.

FIGURES





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| в | | FORMER DOWCRAFT FACILITY | GROUNDWATER REMEDIATION | FALCONER, NEW YORK |
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:Project/n30 - jamestown container/n30001001 - jamestown container/environmental/CADD-GIS/Sheet Files/FIGURE 2 GROUNDWATER MONITORING.dwg

APPENDICES

APPENDIX A

SUB-SLAB DEPRESSURIZATION SYSTEM WORK PLANS



C&S Companies 141 Elm Street Suite 100 Buffalo, NY 14203 p: (716) 847-1630 f: (716) 847-1454 www.cscos.com

January 12, 2017

David Szymanski Department of Environmental Conservation Division of Environmental Remediation 270 Michigan Avenue Buffalo, New York 14203

Re: Soil Vapor Mitigation System Work Plan Former Dowcraft Facility, Falconer, New York

Mr. Szymanski:

C&S Engineers (C&S) is providing New York State Department of Environmental Conservation (NYSDEC) a work plan for the installation of a sub-slab depressurization system by Mitigation Tech with C&S oversight at former Dowcraft Facility in Falconer, New York.

I. <u>PROJECT UNDERSTANDING</u>

The Former Dowcraft Site is located at 65 South Dow Street in Falconer, New York and occupies approximately 2.2 acres of land situated immediately east of South Dow Street and approximately 100 feet south of the Chadakoin River. The Jamestown Container Company currently owns the Dowcraft site. The JCC primary manufacturing building is situated on the northern portion of the Site, adjacent to the Chadakoin River and a smaller structure (Building 9) is located on the southern portion of the Site.

Based on the presence of the VOC plume proximal to or under the site building(s), the NYSDOH requested the performance of a Soil Vapor Intrusion (SVI) study to evaluate potential impacts to indoor air quality. On November 2, 2015, Centek Laboratories performed the SVI sampling with the assistance of JCC maintenance staff. A total of nine sub-slab samples (SS-1 to SS-9) and nine indoor air samples (IA-1 to IA-9) were installed within the main building and Building #9. Sub-slab air samples indicate that TCE contaminated soil vapor has impacted the subsurface underneath the main JCC Buildings #5, #6 and #9. After review of the SVI study, the New York State Department of Health (NYSDOH) requires the installation of a mitigation system address soil vapor concerns.

II. SCOPE OF WORK

This document presents a Work Plan that consists of the installation and operation of a sub-slab depressurization system (SSDS) that is designed to mitigate the migration or potential migration of sub surface vapors into the building interiors. The subject area is the foundation footprint of Buildings #5, #6 and #9 of Jamestown Container Companies – 65 South Dow St., Falconer, NY 14733. The SSDS is intended to protect the occupants of the subject area and is not intended to remove or diminish the source of the contamination. After start-up, demonstration of SSDS effectiveness will be confirmed and thereafter, a program of periodic maintenance and monitoring will be proposed.

III. <u>OBJECTIVES</u>

This work plan was developed by Mitigation Tech in general accordance with the NYS DOH document, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006". The performance objective of the SSDS is to create and maintain a minimum negative pressure differential of .002 inches of water column (wci) below certain concrete slabs which function as boundaries between subject area sub-slab space and occupied interior space. In the case of Building #9, this includes the entire building footprint. In the cases of Buildings #5 and #6, several complicating factors (see sec 3.2 below) are present and a specific area of vacuum influence is not defined as part of this proposal. Rather, reasonably scaled soil vapor intrusion mitigation systems are proposed that would furnish substantial depressurization and ventilation focused along the interior southern walls of #5 & #6. This would constitute a line of defense to intercept soil vapor migrating from the south. The exact northern boundary of the pressure extension field cannot be predicted prior to construction except by elaborate simulation, expensive enough as to suggest construction of a partial system as an alternative.

We therefore recommend a partial approach to function like a permanent pilot study, the effect of which could be ascertained by interim testing. If further post-construction mitigation is desired, additional measures at additional expense would further extend the pressure field. We would specify these measures exactly based on information obtained during the first phase. We have proposed this strategy because it provides a reasonable response to the degree of known contamination and may well be sufficient by itself. In the event testing shows that additional measures are required, such measures would be incremental to work already performed and therefore no work done under the first phase would be inappropriate or wasteful.

IV. WORK PLAN DESIGN AND SPECIFICATIONS

Work descriptions are based on certain assumptions identified herein and are subject to modification based on further field observations and measurements before and during construction. In the interest of achieving efficiency of design, this Work Plan is presented on a "Design/Build" basis which allows for adjustment to quantity, type and placement of system components. Adjustments are informed by analysis of data continuously obtained during construction.

A. <u>Pre-design Communication Testing and Cost Factors</u>

The enclosed system configuration is informed by a general building assessment and sub-slab air communication testing performed August 19, 2016 deemed necessary to determine the most efficient system configuration. Included were interviews of key site personnel and document review, although no foundation plans were available. The test procedure included drilling into the concrete at likely suction cavity locations and applying a vacuum to simulate operation of an SSDS fan. Small diameter test holes were established to measure vacuum influence. The enclosed design is a result of weighing key elements (fan type, suction point location, pipe diameter, etc.) against the cost of different construction techniques and materials.

Also included was assessment of the confined space beneath buildings #5 and #6. There is a network of tunnel like structures supporting the floor, some backfilled and some with open voids. In some cases, the voids taper down to less than a foot. Standing water, large scale debris and other obstacles to work are present. The effect of these structures is to create a dense grid of grade beams that effectively restrict airflow due to compartmentalization. As a consequence, comprehensive depressurization would involve either a very dense network of suction cavities or trenching in the main floor of the building.

A further complicating factor is the continuous operation of Cyclone type rooftop vacuum systems. These systems collect scraps of cardboard generated during production and are always running during plant



operation. They create a vacuum in the building by generating air flow exhaust on the order of 5000 CFM. These systems introduce high rate of building air exchange and also potentially interfere with the operation of sub slab depressurization systems.

B. Scope of Work

The Scope of Work is to furnish and install multi-point active sub-slab depressurization systems consisting of high performance exhaust blower and suction cavity network, combined with sealing of slab openings. The Scope of Work for Building #9 is based on the minimum construction necessary to achieve the design objective of creating a minimum .002 wci pressure differential at all areas of the sub-slab. The Scope of Work for Building #5 and #6 is to create sub-slab depressurization or ventilation in the southern section of the buildings. At conclusion, documentation will be provided showing the pressure field extension values. The system configuration is subject to change based on field observations made during construction.

Furnish and Install:

Building 9

-) (1) OBAR GBR 76 or 89 high performance radial blower [or as indicated by field testing], roof mount or sidewall mount on south side, to provide sub-slab depressurization via 4" schedule 40 PVC trunk line to conduct soil vapor from riser pipes to exhaust fan roof exhaust, with penetration through main roof deck; with mounting frame and rubber connector fittings.
-) (6) Suction points, with risers surface mounted at alternating columns on south wall, 3" Schedule 40 PVC pipe; add suction cavities where necessary to achieve minimum performance objective.

Building 5

- (1) OBAR GBR 76 or 89 high performance radial blower [or as indicated by field testing], roof mount or sidewall mount on south side, to provide sub-slab depressurization via 4" schedule 40 PVC trunk line to conduct soil vapor from riser pipes to exhaust fan roof exhaust, with penetration through main roof deck; with mounting frame and rubber connector fittings.
- (8) Suction points, with risers surface mounted on south wall, 3" Schedule 40 PVC pipe.

Building 6

-) (1) OBAR GBR 76 or 89 high performance radial blower [or as indicated by field testing], roof mount or sidewall mount on south side, to provide sub-slab depressurization via 4" schedule 40 PVC trunk line to conduct soil vapor from riser pipes to exhaust fan roof exhaust, with penetration through main roof deck; with mounting frame and rubber connector fittings
- (5) Suction points, with risers surface mounted on south wall or at office partitions, 3" Schedule 40 PVC pipe

Common Elements

- Continuous building assessment and sub-slab vacuum measurement to optimize design
- Pre-construction consultation to obtain approval for component placements
- All interior pipe SCH 40 PVC with appropriate metal hangers, riser clamps, and additional accessories to properly attach components directly to structural members; sloped as required; routing to avoid interference with other building systems
- *Fire stop devices and other fire code compliance measures*
-) Suction cavities to consist of approximately 1 cu. ft. excavated material in sub-slab, with urethane seal; access hole to suction cavity by 5"core drill or hand drill; trenching around footers where required, with concrete restoration



- Proportioning valves for suction risers where required
- All exhaust points minimum 10' from any air intakes
- Exterior-interior penetrations shall have appropriate sealing systems
-) Mobilization and Demobilization per work shift, with daily temporary restorations and basic dust control measures
- Exterior switch and Sealtight and/or MC conduit from fan housing to nearest electrical panel; extra cost if panel has insufficient capacity; final panel hookup by others at other's expense
- Vacuum indicator, (1) oil filled U-tube manometer or dial type Magnehelic vacuum gauge; and audible low pressure alarm at location TBD
- Urethane sealant at slab joints, accessible cracks and penetrations; backer where necessary
- Horizontal pipe at highest practicable height, with metal bracketing, sloped as required, with valves or restrictor plates as required
- Consult with occupant to minimize disruption to operations and provide access to work areas
- Additional SSDS components necessary to achieve performance objective
- At completion, perform backdraft testing, label components and provide system description and operating instructions
- At completion, measure pressure differentials and document
- Consult with client representatives to develop operation, maintenance and periodic inspection plan
-) Two-year warranty; labor, installed components and sub-slab depressurization to objective (or greater)

C. Post Installation Pressure Field Extension Testing

A digital micromanometer will be used to measure pressure differentials and values will be recorded on a floor plan. All test holes will be repaired with urethane caulk (MSDS available) applied over a closed cell backer rod. Smoke tubes will be used to identify floor cracks and other openings to the sub-slab that could "short circuit" the pressure field. Backdrafting testing will be performed.

D. <u>IRM Construction Completion Report</u>

At conclusion of construction, a Construction Completion Report (CCR) will be submitted. This report will include an as-built sketch or an overlay of client furnished building drawings, showing SSDS locations and components. The CCR will include measurements of created sub-slab to ambient air static pressure differentials, detailed descriptions of SSDS components, and post-installation sampling results.

An Operations, Maintenance, and Monitoring (OM&M) Plan will be submitted with the CCR. The OM&M Plan will be provided to the owner and occupants to facilitate their understanding of the system's operation, maintenance and monitoring.

E. Maintenance and Monitoring

Future maintenance and monitoring will be proposed to verify system effectiveness by inspection procedures and via differential pressure measurements. The monitoring will be performed annually until a less-frequent monitoring frequency is approved. In addition, non-routine maintenance may be conducted should it appear that the SSDS has reduced its effectiveness due to malfunction, renovation, or other unplanned circumstance.

V. <u>SCHEDULE</u>

Installation of the soil vapor system can begin immediately once the NYSDOH approves the work plan. Installation will take 45 - 60 days to complete.



Should you have any questions regarding this work plan or the information contained herein, please feel free to contact me at (716) 847-1630.

Sincerely,

C&S ENGINEERS, INC.

Wit

Cody Martin Environmental Scientist

E.A.S.

Daniel E. Riker, P.G. Managing Geologist

Enclosed: Sub-slab Depressurization System Map

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C&S Companies 141 Elm Street Suite 100 Buffalo, NY 14203 p: (716) 847-1630 f: (716) 847-1454 www.cscos.com

April 6, 2017

David Szymanski Department of Environmental Conservation Division of Environmental Remediation 270 Michigan Avenue Buffalo, New York 14203

Re: Building 5 and 6 Revised Soil Vapor Mitigation System Work Plan Former Dowcraft Facility, Falconer, New York

Mr. Szymanski:

C&S Engineers (C&S) and Mitigation Tech offer an alternative approach to mitigating soil vapor impacts on Buildings 5 and 6 at the Jamestown Container Company (JCC) facility in Falconer, New York. On February 8, 2017 the New York State Department of Environmental Conservation (NYSDEC) approving C&S's work plan for the installation of sub-slab depressurization systems (SSDS) in Buildings 5, 6 and 9. On March 24, 2017, the SSDS for Building 9 was installed according to the approved work plan.

Buildings 5 and 6 are a particular challenge for installing the approved SSDS due to multiple factors that were presented to the NYSDEC and the New York State Department of Health (NYSDOH) during their site visit on March 28, 2017. These factors include the following:

-) The high rate of air exchange within the building from the continuous operation of the Cyclone rooftop vacuum systems;
-) Confined spaces underneath the majority of the floor within the building that are either open or partially backfilled with large debris; and
- Network of tunnel-like structures or arches supporting the floor.

Due to these constraining factors associated with the construction and use of Buildings 5 and 6, the SSDS designs within these buildings have been continually re-evaluated by Mitigation Tech to achieve reasonable performance goals for mitigating soil vapor impacts.

As discussed on March 28th, C&S and Mitigation Tech propose to mitigate soil vapor beneath the sub-slab of Buildings 5 and 6 using targeted SSDS in areas not impeded by sub-slab obstacles and the installation of a crawl space ventilation system in areas with sub-slab obstacles. The size and location of the SSDS will be determined in the field through sub-slab air communication testing prior to installation. The crawl space ventilation system (CVS) consists of two high air flow blowers located on the perimeter of Building 6. A detailed description of this revised system, developed by Mitigation Tech, for Buildings 5 and 6 is attached to this letter.

We request that NYSDEC and NYSDOH review the attached revised work plan for Buildings 5 and 6. As requested by the NYSDOH for the previously approved work plan, indoor air analytical sampling will be conducted after the SSDS / CVS is operational. These samples will assess the systems' impact on indoor air quality. A total of 9 indoor air locations and one outdoor air location will be sampled to evaluate indoor air quality. Future indoor air monitoring events will use the same locations to collect samples during the operation of the SSDS / CVS.

NYSDEC April 6, 2017 Page 2

Should you have any questions regarding this work plan or the information contained herein, please feel free to contact me at (716) 847-1630.

Sincerely,

C&S ENGINEERS, INC.

Cody Martin Environmental Scientist

ERL

Daniel E. Riker, P.G. Managing Geologist

Enclosed: Mitigation Tech Revised Work Plan

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mitigation tech vapor intrusion specialists

April 5, 2017

Mr. Cody Martin Project Manager C & S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 *Via email: Cody Martin <cmartin@cscos.com>*

Jamestown Container Companies - 65 South Dow St., Falconer, NY 14733 Re: **Revised Work Plan**

Dear Mr. Martin.

Based additional building investigation and on our recent meeting with representatives of NYS DEC, we submit the following revised work plan:

1.0 Introduction

Soil vapor containing chlorinated volatile organic compounds has been detected at or near this site. This document presents a Work Plan that consists of the installation and operation of both a sub-slab depressurization system (SSDS) and a Crawlspace Ventilation System (CVS) that are designed to mitigate the migration or potential migration of sub surface vapors into the building interiors. The subject area is the foundation footprint of Buildings #5 and #6 of Jamestown Container Companies - 65 South Dow St., Falconer, NY 14733. The SSDS and CVS are intended to protect the occupants of the subject area and are not intended to remove or diminish the source of the contamination. After start-up, system effectiveness will be assessed and thereafter, a program of periodic maintenance and monitoring will be proposed. It is expected that oversight of construction, confirmation of effectiveness and post mitigation air sampling will be provided by C & S Companies under separate contract and at additional expense.

2.0 **Objectives**

This work plan was developed in general accordance with the NYS DOH document, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006". The performance objective of the SSDS is to create and maintain a minimum negative pressure differential of .002 inches of water column (wci) below the southernmost concrete slab sections of Building #5, which function as boundaries between subject area sub-slab space and occupied interior space. The performance objective of the CVS is to create continuous air exchange with outside air in the Building #6 crawlspace beneath the ground level concrete slab.

Both building #5 and #6 are characterized mostly by systems of sub-slab structural arches and grade beams crisscrossing in a north to south and east to west pattern.

In the case of Building #5, extensive backfilling has occurred over time, mostly via concrete patch, so that soil is present immediately below the surface. Four east to west grade beams define five compartments. A reasonably scaled soil vapor intrusion mitigation system is proposed that would furnish depressurization in the southernmost sub-slab compartment bounded by Buildings # 4 and #6.

April 5, 2017 Page 2

This would constitute a line of defense to intercept soil vapor migrating from the south. Some limited depressurization may be created north of the first grade beam. The exact northern boundary of the pressure extension field cannot be predicted prior to construction of the proposed system.

In the case of Building #6, several complicating factors (see sec 3.2 below) are present and the construction of an SSDS is judged to be impracticable. We judge that most of the sub-space of Building #6 is in essence a crawlspace and that ventilation is the most appropriate strategy to divert vapors from the building interior. A portion of Building #6 that includes the office area does not have a crawlspace, and SSDS is proposed for that area.

Therefore this proposal advocates a mixed and balanced soil vapor intrusion mitigation strategy, wherein measures most likely to yield good outcomes efficiently are applied first. If desired, additional measures at additional expense would further mitigate vapor intrusion. We would specify these measures exactly based on information obtained during the first phase. We have proposed this strategy because it provides a reasonable response to the degree of known contamination and may well be sufficient by itself. In the event testing shows that additional measures are required, such measures would be incremental to work already performed and therefore no work done under this proposed phase would be inappropriate or wasteful.

3.0 Work Plan Design and Specifications

3.1 Overview

Work descriptions are based on certain assumptions identified herein and are subject to modification based on further field observations and measurements before and during construction. In the interest of achieving efficiency of design, this Work Plan is presented on a "Design/Build" basis which allows for adjustment to quantity, type and placement of system components. Adjustments are informed by analysis of data continuously obtained during construction.

3.2 Pre-design Communication Testing

The enclosed system configuration is informed by a general building assessment and sub-slab air communication testing performed August 19, 2016 and subsequently, deemed necessary to determine the most efficient system configuration. Included were interviews of key site personnel, document and historical photograph review, although no foundation plans were available. The test procedure (Building #5) included drilling into the concrete at likely suction cavity locations and applying a vacuum to simulate operation of an SSDS fan. Small diameter test holes were established to measure vacuum influence. The enclosed design is a result of weighing key elements (fan type, suction point location, pipe diameter, etc.) against the cost of different construction techniques and materials.

Also included was assessment of the confined space beneath a small portion of Building #5 and Building #6. There is a network of tunnel like structures supporting the floor, some partially backfilled and some with open voids. In some cases, the voids taper down to less than a foot. Standing water, silt, large scale debris and other obstacles to work are present. The floor of this space was observed to be difficult to access and in many cases degraded. As a consequence, depressurization of the sub-slab of the confined space is judged to be impracticable.

Another factor is the continuous operation of *Cyclone* type rooftop vacuum systems. These systems collect scraps of cardboard generated during production and are always running during plant operation. They create a vacuum in the building by generating air flow exhaust on the order of 5000 CFM. These systems introduce high rate of building air exchange and also potentially interfere with the operation of

April 5, 2017

Page 3

sub-slab depressurization systems. Compensation for this effect includes establishment and maintenance of secure boundaries between ambient and sub-slab air.

3.3 Scope of Work

The Scope of Work is to furnish and install 1) a multi-point active sub-slab depressurization system in Building #5 and a crawl space ventilation system in Building #6. At conclusion, documentation will be provided showing the pressure field extension or air exchange values. The system configuration is subject to change based on field observations made during construction.

Furnish and Install:

- Building 5 east to west space defined by south perimeter wall and southernmost east to west interior footer
- (1) OBAR GBR 76 or 89 high performance radial blower [or as indicated by field testing], roof mount or sidewall mount on south side, to provide sub-slab depressurization via 4" schedule 40 PVC trunk line to conduct soil vapor from riser pipes to exhaust fan roof exhaust; with mounting frame and rubber connector fittings
- (5-6) Suction points, with risers surface mounted on south wall, 3" Schedule 40 PVC pipe
- Building 6 (includes influence at Building #5 sump room)
- (2) RADONAWAY RP-380 high air flow blowers [or as indicated by field testing], roof mount or sidewall mount, to provide sub-slab ventilation via 8" schedule 40 PVC; to conduct soil vapor from riser pipes to exhaust fan roof exhaust, with penetration through main roof deck; with rubber connector fittings
- Sub floor ducting
- Evaluate and repair as necessary, north side foundation vents and openings
- Building 6 (includes portion office area not over crawl space)
- (1) RADONAWAY HS-5000 blower [or as indicated by field testing], roof mount or sidewall mount on south side, to provide sub-slab depressurization via 3" schedule 40 PVC trunk line to conduct soil vapor from riser pipes to exhaust fan roof exhaust; with mounting frame and rubber connector fittings
- (2-3) Suction points, with risers surface mounted on south wall, 3" Schedule 40 PVC pipe
- Common Elements:
- Continuous building assessment and sub-slab vacuum measurement to optimize design and meet stated objectives
- Pre-construction consultation to obtain approval for component placements
- All interior pipe SCH 40 PVC with appropriate metal hangers, riser clamps, and additional accessories to properly attach components directly to structural members; sloped as required; routing to avoid interference with other building systems
- Fire stop devices and other fire code compliance measures
- Suction cavities to consist of approximately 1 cu. ft. excavated material in sub-slab, with urethane seal; access hole to suction cavity by 5" core drill or hand drill; trenching around footers where required, with concrete restoration
- Proportioning valves for suction risers where required
- All exhaust points minimum 10' from any air intakes
- Exterior-interior penetrations shall have appropriate sealing systems
- Mobilization and Demobilization per work shift, with daily temporary restorations and basic dust control measures
- Exterior switch and *Sealtight* and/or MC conduit from fan housing to nearest electrical panel; extra cost if panel has insufficient capacity; final panel hookup by others at other's expense

April 5, 2017 Page 4

- Vacuum indicator, (1) per system
- Urethane sealant at slab joints, accessible cracks and penetrations; backer where necessary
- Horizontal pipe at highest practicable height, with metal bracketing, sloped as required, with valves or restrictor plates as required
- Consult with occupant to minimize disruption to operations and provide access to work areas
- At completion, perform backdraft testing, label components and provide system description and operating instructions
- At completion, measure and document pressure differentials and airflow volumes
- Consult with client representatives to develop operation, maintenance and periodic inspection plan
- Two year warranty; labor, installed components and sub-slab depressurization to objective (or greater)

3.4 Post Installation Pressure Field Extension Testing

A digital micromanometer will be used to measure pressure differentials and values will be recorded on a floor plan. All test holes will be repaired with urethane caulk (MSDS available) applied over a closed cell backer rod. Smoke tubes will be used to identify floor cracks and other openings to the sub-slab that could "short circuit" the pressure field. Backdrafting testing will be performed.

3.5 General Work Plan Provisions

- Daily tailgate meeting for safety review
- HAZWOPER trained personnel to perform drilling operations
- PID or Particulate monitoring not included
- Level 4 PPE for on-site personnel
- Procedures to follow site specific HASP

3.6 IRM Construction Completion Report

At conclusion of construction, a Construction Completion Report (CCR) will be submitted. This report will include an as-built sketch or an overlay of client furnished building drawings, showing SSDS locations and components. The CCR will include measurements of created sub-slab to ambient air static pressure differentials, detailed descriptions of SSDS components, and post-installation sampling results.

An Operations, Maintenance, and Monitoring (OM&M) Plan will be submitted with the CCR. The OM&M Plan will be provided to the owner and occupants to facilitate their understanding of the system's operation, maintenance and monitoring. Future maintenance and monitoring will be proposed to verify system effectiveness by inspection procedures and measurements.

Thank you.

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 * OFFICE/FAX 585-637-7430

APPENDIX B Health and Safety Plan

Health and Safety Plan

Former Dowcraft Site 65 South Dow Street Falconer, NY

Site ID # 9-07-020

Prepared by



C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203

August 2017



TABLE OF CONTENTS

| Section 1 | General Information | 4 |
|---------------|---|------|
| Section 2 - I | Health And Safety Personnel | 5 |
| 2.0 | Health and Safety Personnel Designations | 5 |
| 2.1 | Project Manager (PM) | 5 |
| 2.2 | Health and Safety Manager | 5 |
| 2.3 | Health and Safety Officer (HSO) | 6 |
| 2.4 | Emergency Coordinator | 7 |
| 2.5 | Site Workers | 7 |
| Section 3 - I | Pertinent Site Information | 7 |
| 3.1 | Site Location and General History | 7 |
| Section 5 - 7 | Training | 8 |
| 5.1 | Site-specific Training | 8 |
| 5.2 | Safety Briefings | 9 |
| Section 6 - 2 | Zones | 9 |
| 6.1 | Exclusion Zone | 9 |
| 6.2 | Contamination Reduction Zone | 10 |
| 6.3 | Remediation Zone | 10 |
| 6.4 | Support Zone | 11 |
| Section 7 - I | Personal Protective Equipment | . 11 |
| 7.1 | General | 11 |
| 7.2 | Personal Protective Equipment – Site Specific | 13 |
| Section 8 - I | Monitoring Procedures | . 13 |
| 8.1 | Monitoring During Site Operations | 13 |
| | 8.1.1 Drilling Operations (Monitoring Well Installation and | |
| | Subsurface Borings) and Test Pit Excavations | 13 |
| | 8.1.2 Interim Remedial Measures | 13 |
| 8.2 | Action Levels | 14 |
| 8.3 | Personal Monitoring Procedures | 14 |
| Section 9 - 0 | Communications | . 14 |
| Section 10 - | Safety Considerations For Site Operations | . 14 |
| 10.1 | General | 14 |
| 10.2 | Field Operations | 15 |
| | 10.2.1 Intrusive Operations | 15 |
| | 10.2.2 Excavations and Excavation Trenching | 16 |
| Section 11 - | Decontamination Procedures | . 16 |
| Section 12 | Disposal Procedures | . 17 |
| Section 13 - | Emergency Response Procedures | . 17 |
| 13.1 | Emergency Coordinator | 17 |
| 13.2 | Evacuation | 18 |
| 13.3 | Potential or Actual Fire or Explosion | 18 |
| 13.4 | Environmental Incident (spread or release of contamination) | 18 |
| 13.5 | Personnel Injury | 18 |
| 13.6 | Personnel Exposure | 19 |



Health and Safety Plan

| 13.7 | Adverse Weather Conditions | 19 |
|--------------|--------------------------------------|------|
| 13.8 | Incident Investigation and Reporting | 19 |
| Section 14 - | Community Relations | . 19 |
| 14.1 | Community Health and Safety Plan | 19 |
| | 14.1.1 Community Air Monitoring Plan | 19 |
| Section 15 - | Authorizations | . 19 |

FIGURES

| Figure 1 | Site Location |
|----------|-------------------|
| Figure 2 | Site Aerial Photo |

ATTACHMENTS

Attachment A – Map and Directions to Hospital

APPENDICES

Appendix A – Excavation/Trenching Guideline

Appendix B – Guidance on Incident Investigation and Reporting



SECTION 1 GENERAL INFORMATION

The Health and Safety Plan (HASP) described in this document will address health and safety considerations for all those activities that personnel employed by C&S Engineers, Inc., may be engaged in during site investigation and remediation work at the Former Dowcraft Site located on 65 South Dow Street in Falconer, Chautauqua County, New York (Site). Figure 1 shows the approximate location of the Site. This HASP will be implemented by the Health and Safety Officer (HSO) during site work.

Compliance with this HASP is required of all C&S personnel who enter this Site. The content of the HASP may change or undergo revision based upon additional information made available to the health, safety, and training (H&S) committee, monitoring results or changes in the technical scope of work. Any changes proposed must be reviewed by the H&S committee.

Responsibilities

| Project Manager | Daniel Riker |
|--------------------------------|--|
| winnager | Phone: (716) 847-1630 Cell: (716) 572-5312 |
| Site Health and Safety Officer | Cody Martin Phone: (716) 847-1630 Cell: (716) 864-3752 |
| Emergency Coordinator | Cody Martin Phone: (716) 847-1630 Cell: (716) 864-3752 |
| Health and Safety Manager | Cody Martin Phone: (716) 847-1630 Cell: (716) 864-3752 |

Emergency Phone Numbers

| Emergency Medical Service | .911 |
|--|-----------------|
| Police: Buffalo Police Department (NYPD) | .911 |
| Hospital: Buffalo General Hospital | .(716) 859-5600 |
| Fire: Buffalo Fire Department | .911 |
| National Response Center | .(800) 424-8802 |

| Poison Control Center | (800) 222-1222 |
|-------------------------------------|----------------|
| Center for Disease Control | (800) 311-3435 |
| NYSDEC Region 9 (Buffalo, New York) | (716) 851-7220 |
| C&S Engineers | (716) 847-1630 |
| Site Superintendent | TBD |
| | |

2.0 Health and Safety Personnel Designations

The following information briefly describes the health and safety designations and general responsibilities for this Site.

2.1 Project Manager (PM)

The PM is responsible for the overall project including the implementation of the HASP. Specifically, this includes allocating adequate manpower, equipment, and time resources to conduct Site activities safely.

2.2 Health and Safety Manager

- Has the overall responsibility for coordinating and reporting all health and safety activities and the health and safety of Site Workers.
- Must have completed, at a minimum, the OSHA 30-Hour Construction Safety Training, and either the 24-Hour training course for the Occasional Hazardous Waste Site Worker or the 40-Hour training course for the Hazardous Waste Operations Worker that meets OHSA 29 CFR 1910.
- Must have completed the 8-Hour Site supervisor/manager's course for supervisors and managers having responsibilities for hazardous waste Site operations and management.
- Directs and coordinates health and safety monitoring activities.
- Ensures that field teams utilize proper personal protective equipment (PPE).
- Conducts initial on-site specific training prior to Site Workers commencing work.

- Conducts and documents daily and periodic safety briefings.
- Ensures that field team members comply with this HASP.
- Immediately notifies the Construction Manager (CM) Project Manager and Superintendent of all accident/incidents.
- Determines upgrading or downgrading of PPE based on Site conditions and/or real time monitoring results.
- Ensures that monitoring instruments are calibrated daily or as the manufacturer's instructions determine.
- Reports to the CM Project Manager and Superintendent to provide summaries of field operations and progress.
- Submits and maintains all documentation required in this HASP and any other pertinent health and safety documentation.

2.3 Health and Safety Officer (HSO)

- Must be designated to the Health and Safety Manager by each Subcontractor as a Competent Person having, at a minimum, the OSHA 30-Hour Construction Safety Training
- Must schedule and attend a Pre-Construction Safety Meeting with the Health and Safety Manager to discuss the Subcontractor Safety Requirements and must attend the Weekly Subcontractor Coordination Meeting.
- Responsible for ensuring that their lower tier contractors comply with project safety requirements.
- Must make frequent and regular inspections of their work areas and activities and ensure hazards that are under their control are corrected immediately and all other hazards are reported to the Construction Manager's Project Manager and Health and Safety Manager.

 Must report all work related injuries, regardless of severity, to the Construction Manager's Project Manager and the Health and Safety Manager within 24 hours after they occur.

2.4 Emergency Coordinator

- The Emergency Coordinator or his on-site designee will, in coordination with Campus Square, LLC., implement the emergency response procedures whenever conditions at the Site warrant such action.
- The Emergency Coordinator or his on-site designee will be responsible for assuring the evacuation, emergency treatment, emergency transport of C&S personnel as necessary, and notification of emergency response units (refer to phone listing in the beginning of this HASP) and the appropriate management staff.

2.5 Site Workers

- Report any unsafe or potentially hazardous conditions to the Health and Safety Manager.
- Maintain knowledge of the information, instructions, and emergency response actions contained in the HASP.
- Comply with rules, regulations, and procedures as set forth in this HASP, including any revisions that are instituted.
- Prevent unauthorized personnel from entering work Site.

SECTION 3 - PERTINENT SITE INFORMATION

3.1 Site Location and General History

The Dowcraft Site is located at 65 South Dow Street in Falconer, New York and occupies approximately 2.2 acres of land situated immediately east of South Dow Street and approximately 100 feet south of the Chadakoin River. The Jamestown Container manufacturing building is situated between the Site and the Chadakoin River.

The property was first developed in 1890 as a woolen mill until 1939 when it was converted into



a factory which manufactured steel partitions used for offices. As part of this manufacturing process, a vapor degreaser was used which included the use of chemicals such as trichloroethene (TCE). This work continued until 1999 when the facility was closed, a portion of the Site was demolished, and the property was sold to JCC. Figure 1 presents the Site's location.

Site History and Suspect Recognized Environmental Conditions

Chlorinated solvents, primarily, trichloroethene (TCE) and its daughter compounds, were identified as the contaminants of concern (COC) for this Site. TCE is a man-made volatile organic compound used for degreasing metal and electronic parts. Remedial considerations for TCE include its low solubility value and heavy molecular weight. TCE is in a class of chemicals called dense non-aqueous phase liquids (DNAPL) that sink through the water column until they encounter an impermeable barrier.

According to previous environmental reports, the area of former degreaser pit (area of groundwater monitoring wells PW-3 and PW-3R) is a likely source area for the COC plume. The plume originates from the degreaser area and has affected groundwater in the upper and lower sand/gravel layers. The plume extends from the degreaser area to the north, under the JCC building and up to the area of the Chadakoin River. This is an area of approximately one acre. The rate of movement is approximately 2 to 3 feet per year to the north.

Five out of the ten wells that were sampled contained groundwater that exceeded water quality standard for TCE (5 ug/L). Analytical results for TCE in these wells ranged from 7.37 ug/L to 431 ug/L. Other chlorinated compounds, including TCE daughter compounds (cis-1,2-dichloroethene, trans-1,2-dichloroethane and vinyl chloride) were detected in three of the ten wells. The highest concentration of cis-1,2-Dichloroethene was detected in PW-3R (1,990 ug/L). Vinyl chloride was detected in one well, PW-3R, at 861 ug/L.

SECTION 5 - TRAINING

5.1 Site-specific Training

Training will be provided that specifically addresses the activities, procedures, monitoring, and equipment for the Site operations prior to going on site. Training will include familiarization with Site and facility layout, known and potential hazards, and emergency services at the Site, and

details all provisions contained within this HASP. This training will also allow Site Workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity.

5.2 Safety Briefings

C&S project personnel will be given briefings by the HSO on a daily or as needed basis to further assist Site Workers in conducting their activities safely. Pertinent information will be provided when new operations are to be conducted. Changes in work practices must be implemented due to new information made available, or if Site or environmental conditions change. Briefings will also be given to facilitate conformance with prescribed safety practices. When conformance with these practices is not occurring or if deficiencies are identified during safety audits, the project manager will be notified.

SECTION 6 - ZONES

Four types of Site activity zones are identified for the Brownfield investigation activities, including the Exclusion Zone, Contamination Reduction Zone, Remediation Zone and the Support Zone. Prior to commencement of field work a further definition of where these zones will be set up will be established.

6.1 Exclusion Zone

The area where the unexpected condition is discovered would be considered the Exclusion Zone (EZ). All excavation and handling of contaminated materials generated as a result of the discovery of an unexpected condition would take place within the EZ. This zone will be clearly delineated by hay bales, jersey barriers, and/or similar methods. Safety tape may be used as secondary delineation within the EZ. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The Site Safety Manager/Director may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Site Workers will not be allowed in the EZ without:

- A buddy (co-worker);
- Appropriate PPE in accordance with OSHA regulations;



- Medical authorization; and
- Training certification in accordance with 29 CFR 1910.120.

6.2 Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) will be established between the EZ and the property limits. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of Site equipment. The CRZ will be used for general Site entry and egress, in addition to access for heavy equipment and emergency support services. Site Workers will not be allowed in the CRZ without:

- A buddy (co-worker);
- Appropriate PPE in accordance with OSHA regulations;
- Medical authorization; and
- Training certification in accordance with 29 CFR 1910.120.

In addition, the CRZ will include a Site Worker Cleaning Area that will include a field wash station for Site Workers, equipment, and PPE to allow Site Workers to wash their hands, arms, neck, and face after exiting areas of grossly contaminated soil or hazardous materials. All Site Workers will be required to pass through the Site Worker Cleaning Area and wash their hands and remove any loose fill and soils from their clothing and boots prior to exiting the CRZ.

6.3 Remediation Zone

A Remediated Zone (RZ) will be established in portions of the Site where the remediation has been completed and only general construction work will be performed. Setup of the RZ will consist of implementing several measures designed to reduce the risk of workers' exposure and prevent non-trained workers from entering the non-remediated zone. Non-trained workers will work only in areas where the potential for exposure has been minimized by removal of all hazardous materials. The remediated zone will then be separated from the non-remediated zone by installing and maintaining temporary plywood or other construction fences along the boundary between the two zones. If potentially impacted material is uncovered in the RZ, all non-trained workers will be removed and the Site Safety Manager/Director will assess the potential risks. If, at any other time, the risk of exposure increases while non-trained workers are present in the RZ, the non-trained workers will be removed. At all times, when non- trained workers are present in the RZ, air monitoring for the presence of VOCs will be conducted in the RZ, as well as at the fence line of the non-remediated zone.

6.4 Support Zone

The Support Zone (SZ) will be an uncontaminated area that will be the field support area for the Site operations. The SZ will contain the temporary project trailers and provide for field team communications and staging for emergency response. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated equipment or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples. Meteorological conditions will be observed and noted from this zone, as well as those factors pertinent to heat and cold.

SECTION 7 - PERSONAL PROTECTIVE EQUIPMENT

7.1 General

The level of protection to be worn by field personnel will be defined and controlled by the HSO. Depending upon the type and levels of material present or anticipated at the site, varying degrees of protective equipment will be needed. If the possible hazards are unknown, a reasonable level of protection will be taken until sampling and monitoring results can ascertain potential risks. The levels of protection listed below are based on USEPA Guidelines. A list of the appropriate clothing for each level is also provided.

<u>Level A</u> protection must be worn when a reasonable determination has been made that the highest available level of respiratory, skin, eye, and mucous membrane protection is needed. It should be noted that while Level A provides maximum available protection, it does not protect against all possible hazards. Consideration of the heat stress that can arise from wearing Level A protection should also enter into the decision making process. Level A protection includes:

- Open circuit, pressure-demand self-contained breathing apparatus (SCBA)
- Totally encapsulated chemical resistant suit
- Gloves, inner (surgical type)



- Gloves, outer, chemical protective
- Boots, chemical protective

<u>Level B</u> protection must be used when the highest level of respiratory protection is needed, but hazardous material exposure to the few unprotected areas of the body (e.g., the back of the neck) is unlikely. Level B protection includes:

- Open circuit, pressure-demand SCBA or pressure airline with escape air bottle
- Chemical protective clothing: Overalls and long sleeved jacket; disposal chemical resistant coveralls; coveralls; one or two piece chemical splash suit with hood
- Gloves, inner (surgical type)
- Gloves, outer, chemical protective
- Boots, chemical protective

<u>Level C</u> must be used when the required level of respiratory protection is known, or reasonably assumed to be, not greater than the level of protection afforded by air purifying respirators; and hazardous materials exposure to the few unprotected areas of the body (e.g., the back of the neck) is unlikely. Level C protection includes:

- Full or half face air-purifying respirator
- Chemical protective clothing: Overalls and long-sleeve jacket; disposable chemical resistant coveralls; coveralls; one or two piece chemical splash suit
- Gloves, inner (surgical type)
- Gloves, outer, chemical protective
- Boots, chemical protective

<u>Level D</u> is the basic work uniform. It cannot be worn on any site where respiratory or skin hazards exist. Level D protection includes:

- Safety boots/shoes
- Safety glasses
- Hard hat with optional face shield

Note that the use of SCBA and airline equipment is contingent upon the user receiving special training in the proper use and maintenance of such equipment.



7.2 Personal Protective Equipment – Site Specific

Level D with some modification will be required when working in the work zone on this Site. In addition to the basic work uniform specified by Level D protection, Nitrile gloves will be required when contact with soil or ground water is likely. Hearing protection will be worn when power equipment is used to perform subsurface investigation work. An upgrade to a higher level (Level C) of protection may occur if determined necessary by the HSO.

SECTION 8 - MONITORING PROCEDURES

8.1 Monitoring During Site Operations

All Site environmental monitoring should be accompanied by periodic meteorological monitoring of appropriate climatic conditions.

8.1.1 Drilling Operations (Monitoring Well Installation and Subsurface Borings) and Test Pit Excavations

Monitoring will be performed by the HSO or drilling observer during the conduct of work. A photoionization detector (PID) equipped with a 10.0 eV lamp will be utilized to monitor for the presence of volatile organic vapors within the breathing zone, the borehole, and subsurface samples upon their retrieval. Drill cuttings and excavation spoils will also be monitored by use of the PID. The PID will be field checked for calibration accuracy three times per day (morning, lunch, and end of day. If subsurface conditions warrant, a combustible gas indicator (CGI) with oxygen alarm may also be used to monitor the borehole for the presence of combustible gases. Similar monitoring of fluids produced during well development will also be conducted.

8.1.2 Interim Remedial Measures

If future Interim Remedial Measures (IRM) occurs, monitoring will be performed during excavation and sampling operations when C&S personnel are within the work zone. Although historical information previously obtained at the Site indicates low level of volatile organic vapors and compounds, a photoionization detector (PID) will be used during subsurface activities. If an IRM is performed, the, the remedial contractor will be required to employ dust control practices during work.


8.2 Action Levels

If readings on the PID exceed 10 ppm for more than fifteen minutes consecutively, then personal protective equipment should be upgraded to Level C. The air purifying respirator used with Level C protective equipment must be equipped with organic vapor cartridges. If readings on the explosive gas meter are within a range of 10%-25% of the LEL then continuous monitoring will be implemented. Readings above 25% of the LEL indicate the potential for an explosive condition. Sources of ignition should be removed and the Site should be evacuated.

8.3 Personal Monitoring Procedures

Personal monitoring shall be performed as a contingency measure in the event that VOC concentrations are consistently above the 10 ppm action level as detected by the PID. If the concentration of VOCs is above this action level, then amendments to the HASP must be made before work can continue at the Site.

SECTION 9 - COMMUNICATIONS

A phone will be located on Site to be utilized by personnel conducting investigation and IRM efforts. Cell phones will be the primary means of communicating with emergency support services/facilities.

SECTION 10 - SAFETY CONSIDERATIONS FOR SITE OPERATIONS

10.1 General

Standard safe work practices that will be followed include:

- Do not climb over/under drums, or other obstacles.
- Do not enter the work zone alone.
- Practice contamination avoidance, on and off-site.
- Plan activities ahead of time, use caution when conducting concurrently running activities.
- No eating, drinking, chewing or smoking is permitted in work zones.
- Due to the unknown nature of waste placement at the Site, extreme caution should be practiced during excavation activities.
- Apply immediate first aid to any and all cuts, scratches, abrasions, etc.



- Be alert to your own physical condition. Watch your buddy for signs of fatigue, exposure, etc.
- A work/rest regimen will be initiated when ambient temperatures and protective clothing create a potential heat stress situation.
- No work will be conducted without adequate natural light or without appropriate supervision.
- Task safety briefings will be held prior to onset of task work.
- Ignition of flammable liquids within or through improvised heating devices (barrels, etc.) or space heaters is forbidden.
- Entry into areas of spaces where toxic or explosive concentrations of gases or dust may exist without proper equipment is prohibited.
- Any injury or unusual health effect must be reported to the Site health and safety officer.
- Prevent splashing or spilling of potentially contaminated materials.
- Use of contact lenses is prohibited while on site.
- Beards and other facial hair that would impair the effectiveness of respiratory protection are prohibited if respiratory protection is necessary.
- Field crew members should be familiar with the physical characteristics of investigations, including:
 - Wind direction in relation to potential sources
 - Accessibility to co-workers, equipment, and vehicles
 - Communication
 - Hot zones (areas of known or suspected contamination)
 - ♦ Site access
 - Nearest water sources
- The number of personnel and equipment in potentially contaminated areas should be minimized consistent with site operations.

10.2 Field Operations

10.2.1 Intrusive Operations

The HSO or designee will be present on-site during all intrusive work, e.g., drilling operations, excavations, trenching, and will provide monitoring to oversee that appropriate levels of protection and safety procedures are utilized by C&S Engineers, Inc., personnel. The use of salamanders or other equipment with an open flame is prohibited and the use of protective clothing, especially hard hats and boots, will be required during drilling or other heavy equipment operations.



10.2.2 Excavations and Excavation Trenching

Guidance relating to safe work practices for C&S employees regarding excavations and excavating/trenching operation is presented in Appendix A of this HASP.

SECTION 11 - DECONTAMINATION PROCEDURES

Decontamination involves physically removing contaminants and/or converting them chemically into innocuous substances. Only general guidance can be given on methods and techniques for decontamination. Decontamination procedures are designed to:

- Remove contaminant(s).
- Avoid spreading the contamination from the work zone.
- Avoid exposing unprotected personnel outside of the work zone to contaminants.

Contamination avoidance is the first and best method for preventing spread of contamination from a hazardous site. Each person involved in site operations must practice the basic methods of contamination avoidance listed below. Additional precautions may be required in the HASP.

- Know the limitations of all protective equipment being used.
- Do not enter a contaminated area unless it is necessary to carry out a specific objective.
- When in a contaminated area, avoid touching anything unnecessarily.
- Walk around pools of liquids, discolored areas, or any area that shows evidence of possible contamination.
- Walk upwind of contamination, if possible.
- Do not sit or lean against anything in a contaminated area. If you must kneel (e.g., to take samples), use a plastic ground sheet.
- If at all possible, do not set sampling equipment directly on contaminated areas. Place equipment on a protective cover such as a ground cloth.
- Use the proper tools necessary to safely conduct the work.

Specific methods that may reduce the chance of contamination are:

- Use of remote sampling techniques.
- Opening containers by non-manual means.
- Bagging monitoring instruments.



- Use of drum grapplers.
- Watering down dusty areas.

Equipment which will need to be decontaminated includes tools, monitoring equipment, and personal protective equipment. Items to be decontaminated will be brushed off, rinsed, and dropped into a plastic container supplied for that purpose. They will then be washed with a detergent solution and rinsed with clean water. Monitoring instruments may be wrapped in plastic bags prior to entering the field in order to reduce the potential for contamination. Instrumentation that is contaminated during field operations will be carefully wiped down. Heavy equipment, if utilized for operations where it may be contaminated, will have prescribed decontamination procedures to prevent contaminant materials from potentially leaving the Site. On-site contractors, such as drillers or backhoe operators, will be responsible for decontaminating all construction equipment prior to demobilization.

SECTION 12 DISPOSAL PROCEDURES

All discarded materials, waste materials, or other objects shall be handled in such a way as to reduce or eliminate the potential for spreading contamination, creating a sanitary hazard, or causing litter to be left on-site. All potentially contaminated materials, e.g., clothing, gloves, etc., will be bagged or drummed as necessary and segregated for proper disposal. All contaminated waste materials shall be disposed of as required by the provisions included in the contract and consistent with regulatory provisions. All non-contaminated materials shall be collected and bagged for appropriate disposal. Investigation derived waste will be managed consistent with the work plan for this Site and DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010.

SECTION 13 - EMERGENCY RESPONSE PROCEDURES

As a result of the hazards at the Site, and the conditions under which operations are conducted, there is the possibility of emergency situations. This section establishes procedures for the implementation of an emergency plan.

13.1 Emergency Coordinator

The Emergency Coordinator or his on-site designee will, in concert with Campus Square LLC, implement the emergency response procedures whenever conditions at the Site warrant such action. The Emergency Coordinator or his on-site designee will be responsible for assuring the evacuation, emergency treatment, emergency transport of C&S personnel as necessary, and notification of emergency response units (refer to phone listing in the beginning of this HASP) and the appropriate management staff.

13.2 Evacuation

In the event of an emergency situation, such as fire, explosion, significant release of toxic gases, etc., all personnel will evacuate and assemble in a designated assembly area. The Emergency Coordinator or his on-site designee will have authority to contact outside services as required. Under no circumstances will incoming personnel or visitors be allowed to proceed into the area once the emergency signal has been given. The Emergency Coordinator or his on-site designee must see that access for emergency equipment is provided and that all ignition sources have been shut down once the emergency situation is established. Once the safety of all personnel is established, the Fire Department and other emergency response groups will be notified by telephone of the emergency.

13.3 Potential or Actual Fire or Explosion

Immediately evacuate the Site and notify local fire and police departments, and other appropriate emergency response groups, if LEL values are above 25% in the work zone or if an actual fire or explosion has taken place.

13.4 Environmental Incident (spread or release of contamination)

Control or stop the spread of contamination if possible. Notify the Emergency Coordinator and the Project Manager. Other appropriate response groups will be notified as appropriate.

13.5 Personnel Injury

Emergency first aid shall be applied on-site as necessary. Then, decontaminate (en route if necessary) and transport the individual to nearest medical facility if needed. The ambulance/rescue squad shall be contacted for transport as necessary in an emergency. The directions to the hospital are shown in Section 1 of this HASP and a map is shown in Attachment A.



13.6 Personnel Exposure

- *Skin Contact*: Use copious amounts of soap and water. Wash/rinse affected area thoroughly, and then provide appropriate medical attention. Eyes should be thoroughly rinsed with water for at least 15 minutes.
- *Inhalation*: Move to fresh air and/or, if necessary, decontaminate and transport to emergency medical facility.
- Ingestion: Decontaminate and transport to emergency medical facility.
- *Puncture Wound/Laceration*: Decontaminate, if possible, and transport to emergency medical facility.

13.7 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work can continue without sacrificing the health and safety of field workers.

13.8 Incident Investigation and Reporting

In the event of an incident, procedures discussed in the Medical Emergency/Incident Response Protocol, presented in Appendix B of this HASP, shall be followed.

SECTION 14 - COMMUNITY RELATIONS

14.1 Community Health and Safety Plan

14.1.1 Community Air Monitoring Plan

Efforts will be taken to complete field work in a manner which will minimize the creation of airborne dust or particulates. Under dry conditions, work areas may be wetted to control dust. During periods of extreme wind, intrusive field work may be halted until such time as the potential for creating airborne dust or particulate matter as a result of investigation activities is limited.

SECTION 15 - AUTHORIZATIONS

Personnel authorized to enter the Site while operations are being conducted must be approved by the HSO. Authorization will involve completion of appropriate training courses, medical examination requirements, and review and sign-off of this HASP. No C&S personnel should enter



the work zone alone. Each site visitor should check in with the HSO or Project Manager prior to entering the work zones.

FIGURE 1

SITE LOCATION MAP





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| С | Ca | | Apanies Phone 716-847-1630 Phone 716-847-1630 Fax: 716-847-1454 www.cscos.com | |
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FIGURE 2

SITE AERIAL PHOTO





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ATTACHMENT A

MAP TO HOSPITAL



bing maps

 A 65 S Dow St, Falconer, NY 14733
 B Upmc Chautauqua Wca Hospital, 51 Glasgow Ave, Jamestown, NY
 14701
 Light traffic (9 min without traffic) Via RT-394

Type your route notes here

A 65 S Dow St, Falconer, NY 14733

| 1 | 1. | Depart S Dow St toward W Everett St | 0.2 mi |
|----|----|---|--------|
| ۴ı | 2. | Turn left onto RT-394 / W Main St Pass 7-Eleven in 1.1 mi | 1.9 mi |
| ↑I | 3. | Keep left onto E 2nd St KFC on the corner | 0.1 mi |
| Ϋ́ | 4. | Turn left onto Foote Ave | 0.2 mi |
| Þ | 5. | Turn right onto Harrison St | 0.3 mi |
| 1 | 6. | Road name changes to W Harrison St | 0.2 mi |
| IŤ | 7. | Keep right onto Steele St | 72 ft |
| 4 | 8. | Turn left onto Glasgow Ave | 0.2 mi |
| | 9. | Arrive at Glasgow Ave on the left The last intersection is Steele St If you reach Culver St, you've gone too far | |

B Upmc Chautauqua Wca Hospital





B Upmc Chautauqua Wca Hospital, 51 Glasg...



These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2017 HERE™.

Appendix A

EXCAVATION/TRENCHING GUIDELINE



C&S ENGINEERS, INC. HEALTH & SAFETY GUIDELINE #14 EXCAVATION/TRENCHING OPERATIONS

TABLE OF CONTENTS

| 1.0 | PURPOSE | 1 |
|-----|--|---|
| 2.0 | SCOPE | 1 |
| 3.0 | DEFINITION | 1 |
| 4.0 | R ESPONSIBILITY | 1 |
| 5.0 | Guidelines | 1 |
| 5.1 | Hazards Associated With Excavation/Trenching | 1 |
| 5.2 | Procedures Prior to Excavation | 2 |
| 5.3 | Procedures For Doing The Excavation | 2 |
| 5.4 | Entering the Excavation | 3 |
| 6.0 | REFERENCES | 3 |
| 7.0 | ATTACHMENTS | 3 |

C&S ENGINEERS, INC. EXCAVATION/TRENCHING OPERATIONS

1.0 PURPOSE

To establish safe operating procedures for excavation/trenching operations at C&S work sites.

2.0 SCOPE

Applies to all C&S activity where excavation or trenching operations take place.

3.0 DEFINITIONS

Excavation — Any manmade cavity or depression in the earth's surface, including its sides, walls, or faces, formed by earth removal and producing unsupported earth conditions by reasons of the excavation.

Trench — A narrow excavation made below the surface of the ground. In general, the depth is greater than the width, but the width of a trench is not greater than 15 feet.

4.0 **Responsibility Employees**

Employees — All employees must understand and follow the procedures outlined in this guideline during all excavation and trenching operations.

Health and Safety Coordinator/Officer (HSC/HSO) - The HSC/HSO is responsible for ensuring that these procedures are implemented at each work site.

5.0 GUIDELINES

5.1 Hazards Associated With Excavation/Trenching

The principal hazards associated with excavation/trenching are:

- Suffocation, crushing, or other injury from falling material.
- Damage/failure of installed underground services and consequent hazards.
- Tripping, slipping, or falling.
- Possibility of explosive, flammable, toxic, or oxygen-deficient atmosphere in excavation.

5.2 Procedures Prior to Excavation

- 1. Underground Utilities
 - Determine the presence and location of any underground chemical or utility pipes, electrical, telephone, or instrument wire or cables.
 - If the local DigSafely NY is unable to locate private/domestic or plant utilities, then an independent utility locating service must be contacted and mobilized to the site.
 - Identify the location of underground services by stakes, markers or paint.
 - Arrange to de-energize or isolate underground services during excavation. If not possible, or if location is not definite, method of excavation shall be established to minimize hazards by such means as:
 - a) Use of hand tools in area of underground services.
 - b) Insulating personnel and equipment from possible electrical contact.
 - c) Use of tools or equipment that will reduce possibility of damage to underground services and hazard to worker.
- 2. Identify Excavation Area Areas to be excavated shall be identified and segregated by means of barricades, ropes, and/or signs to prevent access of unauthorized personnel and equipment. Suitable means shall be provided to make barriers visible at all times.
- 3. Surface Water Provide means of diverting surface water from excavation.
- 4. Shoring/Bracing Shoring or bracing that may be required for installed equipment adjacent to the excavation shall be designed by a competent person.
- 5. Structural Ramps Structural ramps that are used solely by employees as a means of access to or egress from the excavation shall be designed by a competent person.

5.3 Procedures For Doing The Excavation

- 1. **Determine the need for shoring/sloping** the type of soil will establish the need for shoring, slope of the excavation, support systems, and equipment to be used. The soil condition may change as the excavation proceeds. Appendices A, B, C, D, E, and F of the OSHA Excavation Regulation, 29 CFR 1926 Subpart P, are to be used in defining shoring and sloping requirements.
- 2. **Mobile equipment** For safe use of mobile industrial equipment in or near the excavation, the load carrying capacity of soil shall be established and suitable protection against collapse of soil provided by the use of mats, barricades, restricting the location of equipment, or shoring.
- 3. Excavated material (spoil) shall be stored at least two (2) feet from the edge of the excavation.
- 4. All trench (vertical sides) excavations greater than five (5) feet deep shall be shored.

- 5. The excavation shall be inspected daily for changes in conditions, including the presence of ground water, change in soil condition, or effects of weather such as rain or freeze. A safe means of continuing the work shall be established based on changes in condition. Typically test trench excavations made as part of an environmental subsurface nvestigation are made and backfilled the same day.
- 6. Appropriate monitoring for gas, toxic, or flammable materials will be conducted to establish the need for respiratory equipment, ventilation, or other measures required to continue the excavation safely.
- 7. Adequate means of dewatering the excavation shall be provided by the contractor as required.
- 8. A signal person shall be provided to direct powered equipment if working in the excavation with other personnel.
- 9. A signal person shall be provided when backfilling excavations to direct powered equipment working in the excavation with other personnel.
- 10. Warning vests will be worn when employees are exposed to public vehicular traffic.
- 11. Employees shall stand away from vehicles being loaded or unloaded, and shall not be permitted underneath loads handled by lifting or dragging equipment.
- 12. Emergency rescue equipment, such as breathing apparatus, a safety harness and line, or a basket stretcher, shall be readily available if hazardous atmospheric conditions exist or may be expected to develop. The specifics will be determined by the HSC/HSM.
- 13. Walkways or bridges with standard guardrail shall be provided where employees or equipment are required or permitted to cross over excavations.

5.4 Entering the Excavation

No C&S Engineers, Inc., employee shall enter an excavation which fails to meet the requirements of Section 5.3 of this guideline.

6.0 **REFERENCES**

29 CFR 1926, Subpart P - Excavations

7.0 ATTACHMENTS

29 CFR 1926 Subpart P - Appendices A, B, F



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Occupational Safety & Health Administration

OSHA Home

A to Z Index | En Españo

🔊 RSS Feeds 🛛 🗗 Print This

Regulations (Standards - 29 CFR) - Table of Contents

| Part Number: | 1926 |
|------------------|--|
| • Part Title: | Safety and Health Regulations for Construction |
| • Subpart: | P |
| • Subpart Title: | Excavations |
| Standard Number: | 1926 Subpart P App A |
| • Title: | Soil Classification |
| | |

(a) Scope and application - (1) Scope. This appendix describes a method of classifying soil and rock deposits based on site and environmental conditions, and on the structure and composition of the earth deposits. The appendix contains definitions, sets for requirements, and describes acceptable visual and manual tests for use in classifying soils.

(2) Application. This appendix applies when a sloping or benching system is designed in accordance with the requirements set for 1926.652(b)(2) as a method of protection for employees from cave-ins. This appendix also applies when timber shoring for excav designed as a method of protection from cave-ins in accordance with appendix C to subpart P of part 1926, and when aluminum shoring is designed in accordance with appendix D. This Appendix also applies if other protective systems are designed and selec from data prepared in accordance with the requirements set forth in 1926.652(c), and the use of the data is predicated on the us classification system set forth in this appendix.

(b) Definitions. The definitions and examples given below are based on, in whole or in part, the following; American Society for T Materials (ASTM) Standards D653-85 and D2488; The Unified Soils Classification System; The U.S. Department of Agriculture (US Textural Classification Scheme; and The National Bureau of Standards Report BSS-121.

"Cemented soil" means a soil in which the particles are held together by a chemical agent, such as calcium carbonate, such that a hand-size sample cannot be crushed into powder or individual soil particles by finger pressure.

"Cohesive soil" means clay (fine grained soil), or soil with a high clay content, which has cohesive strength. Cohesive soil does not crumble, can be excavated with vertical sideslopes, and is plastic when moist. Cohesive soil is hard to break up when dry, and exhibits significant cohesion when submerged. Cohesive soils include clayey silt, sandy clay, silty clay, clay and organic clay.

"Dry soil" means soil that does not exhibit visible signs of moisture content.

"Fissured" means a soil material that has a tendency to break along definite planes of fracture with little resistance, or a material that exhibits open cracks, such as tension cracks, in an exposed surface. "Granular soil" means gravel, sand, or silt (coarse grained soil) with little or no clay content. Granular soil has no cohesive strength. Some moist granular soils exhibit apparent cohesion. Granular soil cannot be molded when moist and crumbles easily when dry.

"Layered system" means two or more distinctly different soil or rock types arranged in layers. Micaceous seams or weakened planes in rock or shale are considered layered.

"Moist soil" means a condition in which a soil looks and feels damp. Moist cohesive soil can easily be shaped into a ball and rolled into small diameter threads before crumbling. Moist granular soil that contains some cohesive material will exhibit signs of cohesion between particles. "Plastic" means a property of a soil which allows the soil to be

deformed or molded without cracking, or appreciable volume change. "Saturated soil" means a soil in which the voids are filled with water. Saturation does not require flow. Saturation, or near saturation, is necessary for the proper use of instruments such as a pocket penetrometer or sheer vane. "Soil classification system" means, for the purpose of this subpart, a method of categorizing soil and rock deposits in a hierarchy of Stable Rock, Type A, Type B, and Type C, in decreasing order of stability. The categories are determined based on an analysis of the properties and performance characteristics of the deposits and the characteristics of the deposits and the environmental conditions of exposure. "Stable rock" means natural solid mineral matter that can be excavated with vertical sides and remain intact while exposed. "Submerged soil" means soil which is underwater or is free seeping. "Type A" means cohesive soils with an unconfined, compressive strength of 1.5 ton per square foot (tsf) (144 kPa) or greater. Examples of cohesive soils are: clay, silty clay, sandy clay, clay loam and, in some cases, silty clay loam and sandy clay loam. Cemented soils such as caliche and hardpan are also considered Type A. However, no soil is Type A if: (i) The soil is fissured; or (ii) The soil is subject to vibration from heavy traffic, pile driving, or similar effects; or (iii) The soil has been previously disturbed; or (iv) The soil is part of a sloped, layered system where the layers dip into the excavation on a slope of four horizontal to one vertical (4H:1V) or greater; or (v) The material is subject to other factors that would require it to be classified as a less stable material. "Type B" means: (i) Cohesive soil with an unconfined compressive strength greater than 0.5 tsf (48 kPa) but less than 1.5 tsf (144 kPa); or (ii) Granular cohesionless soils including: angular gravel (similar to crushed rock), silt, silt loam, sandy loam and, in some cases, silty clay loam and sandy clay loam. (iii) Previously disturbed soils except those which would otherwise be classed as Type C soil. (iv) Soil that meets the unconfined compressive strength or cementation requirements for Type A, but is fissured or subject to vibration; or (v) Dry rock that is not stable; or (vi) Material that is part of a sloped, layered system where the layers dip into the excavation on a slope less steep than four horizontal to one vertical (4H:1V), but only if the material would otherwise be classified as Type B. "Type C" means: (i) Cohesive soil with an unconfined compressive strength of 0.5 tsf (48 kPa) or less; or (ii) Granular soils including gravel, sand, and loamy sand; or (iii) Submerged soil or soil from which water is freely seeping; or (iv) Submerged rock that is not stable, or (v) Material in a sloped, layered system where the layers dip into the excavation or a slope of four horizontal to one vertical (4H:1V) or steeper. "Unconfined compressive strength" means the load per unit area at which a soil will fail in compression. It can be determined by laboratory testing, or estimated in the field using a pocket penetrometer, by thumb penetration tests, and other methods. "Wet soil" means soil that contains significantly more moisture than moist soil, but in such a range of values that cohesive material will slump or begin to flow when vibrated. Granular material that would exhibit cohesive properties when moist will lose those cohesive properties when wet.

. .

(c) Requirements - (1) Classification of soil and rock deposits. Each soil and rock deposit shall be classified by a competent perso Rock, Type A, Type B, or Type C in accordance with the definitions set forth in paragraph (b) of this appendix.

(2) Basis of classification. The classification of the deposits shall be made based on the results of at least one visual and at least (analysis. Such analyses shall be conducted by a competent person using tests described in paragraph (d) below, or in other recog methods of soil classification and testing such as those adopted by the American Society for Testing Materials, or the U.S. Depart Agriculture textural classification system.

(3) Visual and manual analyses. The visual and manual analyses, such as those noted as being acceptable in paragraph (d) of thi shall be designed and conducted to provide sufficient quantitative and qualitative information as may be necessary to identify properties, factors, and conditions affecting the classification of the deposits.

(4) Layered systems. In a layered system, the system shall be classified in accordance with its weakest layer. However, each laye classified individually where a more stable layer lies under a less stable layer.

(5) Reclassification. If, after classifying a deposit, the properties, factors, or conditions affecting its classification change in any w changes shall be evaluated by a competent person. The deposit shall be reclassified as necessary to reflect the changed circumst

(d) Acceptable visual and manual tests. - (1) Visual tests. Visual analysis is conducted to determine qualitative information regarc excavation site in general, the soil adjacent to the excavation, the soil forming the sides of the open excavation, and the soil take samples from excavated material.

(i) Observe samples of soil that are excavated and soil in the sides of the excavation. Estimate the range of particle sizes and the amounts of the particle sizes. Soil that is primarily composed of fine-grained material material is cohesive material. Soil composed of coarse-grained sand or gravel is granular material.

(ii) Observe soil as it is excavated. Soil that remains in clumps when excavated is cohesive. Soil that breaks up easily and does no clumps is granular.

(iii) Observe the side of the opened excavation and the surface area adjacent to the excavation. Crack-like openings such as tens could indicate fissured material. If chunks of soil spall off a vertical side, the soil could be fissured. Small spalls are evidence of m ground and are indications of potentially hazardous situations.

(iv) Observe the area adjacent to the excavation and the excavation itself for evidence of existing utility and other underground s and to identify previously disturbed soil.

(v) Observed the opened side of the excavation to identify layered systems. Examine layered systems to identify if the layers slor the excavation. Estimate the degree of slope of the layers.

(vi) Observe the area adjacent to the excavation and the sides of the opened excavation for evidence of surface water, water see the sides of the excavation, or the location of the level of the water table.

(vii) Observe the area adjacent to the excavation and the area within the excavation for sources of vibration that may affect the : the excavation face.

(2) Manual tests. Manual analysis of soil samples is conducted to determine quantitative as well as qualitative properties of soil a provide more information in order to classify soil properly.

(i) Plasticity. Mold a moist or wet sample of soil into a ball and attempt to roll it into threads as thin as 1/8-inch in diameter. Cohe material can be successfully rolled into threads without crumbling. For example, if at least a two inch (50 mm) length of 1/8-inch be held on one end without tearing, the soil is cohesive.

(ii) Dry strength. If the soil is dry and crumbles on its own or with moderate pressure into individual grains or fine powder, it is g combination of gravel, sand, or silt). If the soil is dry and falls into clumps which break up into smaller clumps, but the smaller clu only be broken up with difficulty, it may be clay in any combination with gravel, sand or silt. If the dry soil breaks into clumps wh break up into small clumps and which can only be broken with difficulty, and there is no visual indication the soil is fissured, the s considered unfissured.

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(iii) Thumb penetration. The thumb penetration test can be used to estimate the unconfined compressive strength of cohesive so test is based on the thumb penetration test described in American Society for Testing and Materials (ASTM) Standard designatior "Standard Recommended Practice for Description of Soils (Visual - Manual Procedure).") Type A soils with an unconfined compressive strength of 1.5 tsf can be readily indented by the thumb; however, they can be penetrated by the thumb only with very great eff soils with an unconfined compressive strength of 0.5 tsf can be easily penetrated several inches by the thumb, and can be molde finger pressure. This test should be conducted on an undisturbed soil sample, such as a large dump of spoil, as soon as practicat excavation to keep to a minimum the effects of exposure to drying influences. If the excavation is later exposed to wetting influe flooding), the classification of the soil must be changed accordingly.

(iv) Other strength tests. Estimates of unconfined compressive strength of soils can also be obtained by use of a pocket penetron using a hand-operated shearvane.

(v) Drying test. The basic purpose of the drying test is to differentiate between cohesive material with fissures, unfissured cohesi and granular material. The procedure for the drying test involves drying a sample of soil that is approximately one inch thick (2.5 six inches (15.24 cm) in diameter until it is thoroughly dry:

(A) If the sample develops cracks as it dries, significant fissures are indicated.

(B) Samples that dry without cracking are to be broken by hand. If considerable force is necessary to break a sample, the soil ha cohesive material content. The soil can be classified as an unfissured cohesive material and the unconfined compressive strength determined.

(C) If a sample breaks easily by hand, it is either a fissured cohesive material or a granular material. To distinguish between the 1 pulverize the dried dumps of the sample by hand or by stepping on them. If the dumps do not pulverize easily, the material is cc fissures. If they pulverize easily into very small fragments, the material is granular.

Next Standard (1926 Subpart P App B)

Regulations (Standards - 29 CFR) - Table of Contents

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| DEPARTMENT | 1 OF LA BOR | a construction of the | |
| Occupational Safety | & Health Administration | A to Z Index En Español | |
| OSHA Home | | 🔊 RSS Feeds 🛛 🗗 Print This F | |
| Regulations (Standards - 29 CFR) - | Table of Contents | | |
| • Part Number: | 1926 | | |
| Part Title: Subpart: | Safety and Health Regulations for Const | truction | |
| • Subpart Title: | Excavations | | |
| • Standard Number: | 1926 Subpart P App B | | |
| • Title: | Sloping and Benching | | |
| is to be performed in accordance with the requirements set forth in § 1926.652(b)(2). (b) <i>Definitions</i>. <i>Actual slope</i> means the slope to which an excavation face is excavated. | | | |
| Distress means that the soil is in a condition where a cave-in is imminent or is likely to occur. Distress is evidenced by such phe the development of fissures in the face of or adjacent to an open excavation; the subsidence of the edge of an excavation; the si material from the face or the bulging or heaving of material from the bottom of an excavation; the spalling of material from the f excavation; and ravelling, i.e., small amounts of material such as pebbles or little clumps of material suddenly separating from the excavation and trickling or rolling down into the excavation. | | | |
| Maximum allowable slope means the steepest incline of an excavation face that is acceptable for the most favorable site condi protection against cave-ins, and is expressed as the ratio of horizontal distance to vertical rise (H:V). | | | |
| Short term exposure means a period of time less than or equal to 24 hours that an excavation is open. | | | |
| (c) Requirements (1) Soil classification . Soil and rock deposits shall be classified in accordance with appendix A to subpart I 1926. | | | |
| (2) <i>Maximum allowable slope</i> . The maximum allowable slope for a soil or rock deposit shall be determined from Table B-1 of th appendix. | | | |
| (3) <i>Actual slope</i> . (i) The actual slop | e shall not be steeper than the maximum allowable s | slope. | |
| ii) The actual slope shall be less steep than the maximum allowable slope, when there are signs of distress. If that situation occur slope shall be cut back to an actual slope which is at least ½ horizontal to one vertical (½H:1V) less steep than the maximum allo slope. | | | |
| (iii) When surcharge loads from store determine the degree to which the ac achieved. Surcharge loads from adjac | iii) When surcharge loads from stored material or equipment, operating equipment, or traffic are present, a competent person sh letermine the degree to which the actual slope must be reduced below the maximum allowable slope, and shall assure that such achieved. Surcharge loads from adjacent structures shall be evaluated in accordance with § 1926.651(i). | | |
| (4) Configurations. Configurations of | of sloping and benching systems shall be in accordar | nce with Figure B-1. | |
| | | | |
| | | | |
| | | | |

TABLE B-1 MAXIMUM ALLOWABLE SLOPES

| SOIL OR ROCK TYPE | MAXIMUM ALLOWABLE SLOPES (H:V)(1) FOR EXCAVATIONS LESS THAN 20 FEET DEEP(3) |
|-------------------|--|
| STABLE ROCK | VERTICAL (90°) |
| TYPE A (2) | 3/4:1 (53°) |
| TYPE B | 1:1 (45°) |
| TYPE C | 1 ½:1 (34°) |

Footnote(1) Numbers shown in parentheses next to maximum allowable slopes are angles expressed in degrees from the horizontal. Angle rounded off.

Footnote(2) A short-term maximum allowable slope of 1/2H:1V (63°) is allowed in excavations in Type A soil that are 12 feed (3.67 m) or I depth. Short-term maximum allowable slopes for excavations greater than 12 feet (3.67 m) in depth shall be 3/4H:1V (53°).

Footnote(3) Sloping or benching for excavations greater than 20 feet deep shall be designed by a registered professional engineer.

Figure B-1

Slope Configurations

(All slopes stated below are in the horizontal to vertical ratio)

B-1.1 Excavations made in Type A soil.

1. All simple slope excavation 20 feet or less in depth shall have a maximum allowable slope of 34:1.



SIMPLE SLOPE -- GENERAL

Exception: Simple slope excavations which are open 24 hours or less (short term) and which are 12 feet or less in depth shall have maximum allowable slope of 1/2:1.



SIMPLE SLOPE -- SHORT TERM

2. All benched excavations 20 feet or less in depth shall have a maximum allowable slope of 3/4 to 1 and maximum bench dimens





2. All benched excavations 20 feet or less in depth shall have a maximum allowable slope of 1:1 and maximum bench dimensions







2. All other sloped excavations shall be in accordance with the other options permitted in § 1926.652(b).

Next Standard (1926 Subpart P App C)

Regulations (Standards - 29 CFR) - Table of Contents

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| Occupational OSHA Home | I Safety & Health Administration A | to Z Index En Español RSS Feeds 🛛 🗗 Print This Pa |
|--|--|---|
| Part Number: Part Number: Part Title: Subpart: Subpart Title: Standard Number: Title: | 29 CFR) - Table of Contents 1926 Safety and Health Regulations for Construction P Excavations 1926 Subpart P App F Selection of Protective Systems | |
| ne following figures are a constant of the second sec second second sec | graphic summary of the requirements contained in subpart P for excavations ons more than 20 feet in depth must be designed by a registered professional | 20 feet or less in depth. Pr l engineer in accordance wi |
| | Is the excavation more than 5 feet in depth? | |
| Is there potential for cave-in? | NO YES I Is the excavation entirely in stable rock? | |
| | | |
| NO | YES Excavation may be made with vertical sides. | |
| NO YES | Excavation may be made with vertical sides Excavation must be sloped, shored, or shielded. | |



Shoring or shielding selected as the method of protection.

| | Soil Classification is required when shoring or shielding is used. The excavation must comply with one of the following four options: | |
|------------------------|---|--|
| | Option 1 | |
| | Sec. 1926.652(c)(1) which requires Appendices A and C to be followed (e.g. timber shoring). | |
| | Option 2 | |
| | Sec. 1926.652(c)(2) which requires manufacturers data to be followed (e.g. hydraulic shoring, trench jacks, air shores, shields). | |
| | Option 3 | |
| | Sec. 1926.652(c)(3) which requires tabulated data (see definition) to be followed (e.g. any system as per the tabulated data). | |
| | Option 4 | |
| | Sec. 1926.652(c)(4) which requires the excavation to be designed by a registered professional engineer (e.g. any designed system). | |
| FI | GURE 3 - SHORING AND SHIELDING OPTIONS | |
| | | |
| Next Standard (1926 | Subpart Q) | |
| 🛊 Regulations (Standar | ds - 29 CFR) - Table of Contents | |
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4/7/2010

Appendix B

GUIDANCE ON INCIDENT INVESTIGATION

AND REPORTING



3. Following the treatment and care of the injured employee, the emergency coordinator or his on-site designee and the project manager will initiate the completion of the first injury report. The Health & Safety Manager will assist.

Project Manager

- 1. Upon notification of a personal injury or illness on the job site, will notify C & S Engineers, Inc, President and Corporate Legal and C&S Companies Health and Safety Manager.
- 2. Will report to the worksite to initiate the first injury report.
- 3. Will report to the treatment facility to check on the well being of the injured employee. The project manager will ensure that the treatment facility is aware that this is a workers compensation case.
- 4. Will assist the Health and Safety Manager in the analysis of the incident.

Health & Safety Manager

- 1. Upon notification of the personal injury will determined if it is necessary to report to the treatment facility or the accident site, depending on the nature of the injuries and the circumstances of the accident.
- 2. Will report to the worksite to begin a root cause analysis investigation of the accident. The investigation may include interview of witnesses, field crew, and project manager, the photographing of the scene, reconstruction of the accident scene, using test instruments and taking measurements. The Health and Safety Manager may draw diagrams from the information learned.
- 3. The Health and Safety Manager will work with the owner/client as necessary to investigate the accident.
- 4. The Health & Safety manager will ensure that the site is safe to resume work.
- 5. The Health & Safety Manager shall initiate the New York State Compensation form requirements (C-2) and forward a copy of the C-2 to the C & S Engineers, Inc. controller for transmittal to the Compensation Carrier within 8 hrs of notification of the incident or by the end of the next business day.
- 6. The Health and Safety manager, upon completion of the investigation, will provide the Project Manager with a written investigative report (copy to the President)
- 7. The accident will be reviewed at the next Project Managers meeting with the intent to prevent further or similar events on other projects.
- 8. The Health & Safety Manager will assess the incident to determine OSHA record ability and make record if necessary on the OSHA 300 form, within five working days.
Incident Response

1.0 PURPOSE

To prevent the occurrence of accidents on C&S Engineers, Inc., work sites and to establish a procedure for investigation and reporting of incidents occurring in, or related to C&S work activities.

2.0 SCOPE

Applies to all incidents related to C&S Engineers, Inc. work activities.

3.0 **DEFINITIONS**

<u>Accident</u> - An undesired event resulting in personal injury and/or property damage, and/or equipment failure.

Fatality - An injury or illness resulting in death of the individual.

<u>Incident</u> - Any occurrence which results in, or could potentially result in, the need for medical care or property damage. Such incidents shall include lost time accidents or illness, medical treatment cases, unplanned exposure to toxic materials or any other significant occurrence resulting in property damage or in "near misses."

<u>Incidence Rate</u> - the number of injuries, illnesses, or lost workdays related to a common exposure base of 100 full-time workers. The rate is calculated as:

N/EH x 200,000

N = number of injuries and illnesses or lost workday cases; EH = total hours worked by all associates during calendar year. 200,000 = base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

<u>Injury</u> - An injury such as a cut, fracture, sprain, amputation, etc. which results from a work accident or from a single instantaneous event in the work environment.

<u>Lost Workday Case</u> - A lost workday case occurs when an injured or ill employee experiences days away from work beginning with the next scheduled work day. Lost workday cases do not occur unless the employee is effected beyond the day of injury or onset of illness.

<u>Recordable Illness</u> - An illness that results from the course of employment and must be entered on the OSHA 300 Log and Summary of Occupational Injuries and Illnesses. These illnesses require medical treatment and evaluation of work related injury. For example, dermatitis, bronchitis, irritation of eyes, nose, and throat can result from work and non-work related incidents. <u>Recordable Injury</u> - An injury that results from the course of employment and must be entered on the OSHA 300 Log and Summary of Occupational Injuries and Illnesses. These injuries require medical treatment; may involve loss of consciousness; may result in restriction of work or motion or transfer to another job; or result in a fatality.

<u>Near Miss</u> - An incident which, if occurring at a different time or in a different personnel or equipment configuration, would have resulted in an incident.

4.0 **RESPONSIBILITIES**

<u>Employees</u> - It shall be the responsibility of all C&S Engineers, Inc. employees to report all incidents as soon as possible to the HSC, regardless of the severity.

<u>Human Resources</u> - has overall responsibility for maintaining accident/ incident reporting and investigations according to current regulations and recording injuries/ illness on the OSHA 300 log, and posting the OSHA 300 log.

<u>Emergency Coordinator</u> - It is the responsibility of the Emergency Coordinator to investigate and prepare an appropriate report of all accidents, illnesses, and incidents occurring on or related to C&S Engineers, Inc. work. The Emergency Coordinator shall complete Attachment A within 24 hours of the incident occurrence.

<u>Health and Safety Manager (HSM)</u> - It is the responsibility of the HSM to investigate and prepare an appropriate report of all lost time injuries and illnesses and significant incidents occurring on or related to C&S Companies. The HSM shall maintain the OSHA 300 form.

<u>Project Managers (PM)</u> - It shall be the PM's responsibility to promptly correct any deficiencies in personnel, training, actions, or any site or equipment deficiencies that were determined to cause or contribute to the incident investigated.

5.0 GUIDELINES

5.1 Incident Investigation

The Project Manager will immediately investigate the circumstances surrounding the incident and will make recommendations to prevent recurrence. The HSM shall be immediately notified by telephone if a serious accident/ incident occurs. The incident shall be evaluated to determine whether it is OSHA recordable. If the incident is determined to be OSHA 300 recordable, it shall be entered on the OSHA 300 form.

The Project Manager with assistance from the HSM must submit to the office an incident report form pertaining to any incident resulting in injury or property damage.

5.2 Incident Report

The completed incident report must be completed by the Project Manager within 12 hours of the incident and distributed to the HSM, and Human Resources. This form shall be maintained by Human Resources for at least five years for all OSHA recordable cases. This form serves as an equivalent to the OSHA 101 form.

5.3 Incident Follow-up Report

The Incident Follow-Up Report (Attachment B) shall be distributed with the Incident Report within one week of the incident. Delay in filing this report shall be explained in a brief memorandum.

5.4 **Reporting of Fatalities or Multiple Hospitalization Accidents**

Fatalities or accidents resulting in the hospitalization of three or more employees must be reported to OSHA verbally or in writing within 8 hours. The report must contain 1) circumstances surrounding the accident(s), 2) the number of fatalities, and 3) the extent of any injuries.

5.5 OSHA 300A Summary Form

Recordable cases must be entered on the log within six workdays of receipt of the information that a recordable case has occurred. The OSHA log must be kept updated to within 45 calendar days.

OSHA 300 forms must be updated during the 5 year retention period, if there is a change in the extent or outcome of an injury or illness which affects an entry on a log. If a change is necessary, the original entry should be lined out and a corrected entry made on that log. New entries should be made for previously unrecorded cases that are discovered or for cases that initially weren't recorded but were found to be recordable after the end of the year. Log totals should also be modified to reflect these changes.

5.5.1 Posting

The log must be summarized at the end of the calendar year and the summary must be posted from February 1 through May 31.

5.6 OSHA 300A

Facilities selected by the Bureau of Labor Statistics (BLS) to participate in surveys of occupational injuries and illnesses will receive the OSHA 300A. The data from the annual summary on the OSHA 300 log should be transferred to the OSHA 300A, other requested information provided and the form returned as instructed by the BLS.

5.7 Access to OSHA Records

All OSHA records (accident reporting forms and OSHA 300 logs) should be available for inspection and copying by authorized Federal and State government officials.

Employees, former employees, and their representatives must be given access for inspection and copying to only the log, OSHA No. 300, for the establishment in which the employee currently works or formerly worked.

6.0 **REFERENCES**

29 CFR Part 1904

7.0 ATTACHMENTS

Attachment A - Incident Investigation Form Attachment B - Incident Follow-Up Report Attachment C - Establishing Recordability

ATTACHMENT A

INCIDENT INVESTIGATION FORM

| Accident investigation should include: |
|--|
| Location: |
| Time of Day: |
| Accident Type: |
| Victim: |
| Nature of Injury: |
| Released Injury: |
| Hazardous Material: |
| Unsafe Acts: |
| Unsafe Conditions: |
| Policies, Decisions: |
| |
| Personal Factors: |
| |
| Environmental Factors: |
| |
| |

ATTACHMENT B

| Date |
|------------------------------------|
| Foreman: |
| INCIDENT FOLLOW-UP REPORT |
| Date of Incident: |
| Site: |
| Brief description of incident: |
| |
| |
| |
| |
| Outcome of incident: |
| |
| |
| |
| Physician's recommendations: |
| |
| |
| |
| Date the injured returned to work: |
| Project Manager Signature: |
| Date: |
| |

ATTACH ANY ADDITIONAL INFORMATION TO THIS FORM

ATTACHMENT C

ESTABLISHING RECORDABILITY

1. Deciding whether to record a case and how to classify the case.

Determine whether a fatality, injury or illness is recordable.

A fatality is recordable if:

- Results from employment

An injury is recordable if:

- Results from employment and
- It requires medical treatment beyond first aid or
- Results in restricted work activity or job transfer, or
- Results in lost work day or
- Results in loss of consciousness

An illness is recordable if:

- It results from employment

2. Definition of "Resulting from Employment"

Resulting from employment is when the injury or illness results from an event or exposure in the work environment. The work environment is primarily composed of: 1) The employer's premises, and 2) other locations where associates are engaged in work-related activities or are present as a condition of their employment.

The employer's premises include company rest rooms, hallways, cafeterias, sidewalks and parking lots. Injuries occurring in these places are generally considered work related.

The employer's premises EXCLUDES employer controlled ball fields, tennis courts, golf courses, parks, swimming pools, gyms, and other similar recreational facilities, used by associates on a voluntary basis for their own benefit, primarily during off work hours.

Ordinary and customary commute, is not generally considered work related.

Employees injured or taken ill while engaged in consuming food, as part of a normal break or activity is not considered work related. Employees injured or taken ill as the result of smoking, consuming illegal drugs, alcohol or applying make up are generally not considered work related. Employee injured by un authorized horseplay is generally not considered work related, however, an employee injured as a result of a fight or other workplace violence act, may be considered work related.

Associates who travel on company business are considered to be engaged in work related activities all the time they spend in the interest of the company. This includes travel to and from customer contacts, and entertaining or being entertained for purpose of promoting or discussing business. Incidents occurring during normal living activities (eating, sleeping, recreation) or if the associate deviates from a reasonably direct route of travel are not considered OSHA recordable.

3. Distinction between Medical Treatment and First Aid.

First aid is defined as any one-time treatment, and any follow up visit for the purpose of observation, of minor scratches, cuts, burns, splinters, etc., which do not ordinarily require medical care. Such one time treatment, and follow up visit for the purpose of observation, is considered first aid even though provided by a physician or registered professional personnel.

Medical Treatment (recordable)

- a) They must be treated only by a physician or licensed medical personnel.
- b) They impair bodily function (i.e. normal use of senses, limbs, etc.).
- c) They result in damage to physical structure of a non superficial nature (fractures).
- d) They involve complications requiring follow up medical treatment.



APPENDIX C SUB-SLAB DEPRESSURIZATION CONSTRUCTION COMPLETION REPORTS

mitigation tech vapor intrusion specialists

April 8, 2017

Mr. Cody Martin Project Manager C & S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 Via email: Cody Martin <cmartin@cscos.com>

CONSTRUCTION COMPLETION REPORT

1. OVERVIEW

This document presents a construction report, performance evaluation, O&M advice and certification of effectiveness for the Sub-Slab Depressurization system (SSDS) installed by *Mitigation Tech* at 65 South Dow St., Falconer, NY 14733, Building 9, as commissioned March 27, 2017.

Following an SSD construction plan (dated October 18, 2016) informed by a general building assessment performed August 19, 2016, two multi-suction point SSD Systems were installed using principles and equipment typically used for soil vapor intrusion mitigation in buildings. The primary objective of implementing this preemptive measure was to mitigate potential intrusion of soil vapors. This would be achieved by maintaining a negative pressure of at least .002 water column inches (wci) below the slab relative to the air pressure above the slab. All work is in compliance with the NYS DOH document, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006".

2. BUILDING ASSESSMENT AND SYSTEM CONSTRUCTION

Confirmatory sub-slab air communication testing was performed at job start March 21, 2017 to refine data obtained from the preliminary building assessment. Work continued with an analysis of appropriate locations for fans, suction cavities and other SSD system components. It was determined that two fan systems were more practicable than a single fan system. Both for physical protection and minimum impact on active use areas, riser pipes were surface mounted near columns or perimeter walls; horizontal pipe was installed as close to ceiling and established raceways as possible. Work was coordinated with client to minimize disturbance of work areas, relocate obstacles and control dust. Vacuum and air flow measurements were performed continuously during construction to ensure integrity of design. Various fans were evaluated in place and in combination to determine the most effective configuration. At commissioning, all components inspected for condition and proper operation. Premises left in clean condition.

Re: Jamestown Container Companies – 65 South Dow St., Falconer, NY 14733 Construction Completion Report for SSD System - Building 9

April 9, 2017 Page 2

Key on site personnel were Aaron Hurysz and Robert Beck, both highly experienced soil vapor intrusion technicians. Weather conditions were favorable. Daily tailgate meetings were held to review the daily work objectives and relevant aspects of the Health & Safety Plan. No accidents or incidents occurred during the construction.

3. SUB-SLAB DEPRESSURIZATION SYSTEM GENERAL DESCRIPTION

3.1. Introduction. The SSDS is maintaining sub-slab vacuum at all subject areas. The system consists of (2) sidewall mounted fans connected by manifold piping to vapor extraction points. The system was constructed using principles and equipment typically used for radon mitigation in buildings as detailed in the United States Environmental Protection Agency (EPA) EPA 402-K-03-007 (May 2006), and the final NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). The SSDS was installed as a permanent, integral addition to the structure. The key components of the SSDS are described below and are shown on an asbuilt diagram labeled "Sub-Slab System Diagram."

3.2. Suction Points. The suction points consists of a 5" core boring into the slab through which 1- 2 cubic feet of sub-slab material has been removed. Mechanically suspended 3" SCH 40 PVC pipe has been inserted into the boring and sealed with urethane sealant.

3.3. Riser Piping. The riser piping consists of 3" SCH 40 PVC pipe that follows a route from the extraction point to a 4" trunk line, then to the exterior mounted vacuum fan. Weatherproof flashing or sealant has been applied to all penetrations. Vent pipes were installed at a pitch that ensures that any rainwater or condensation within the pipes drains downward into the ground beneath the slab. Piping is independently supported, and not supported from existing building mechanical systems. Piping is labeled at each level as "Sub-Slab Vent". Piping is connected using manufacturer's approved methods.

3.4. Exhaust Fans. Exhaust fans has been field selected for specific performance properties. Models: 1) Festa Radon Technologies "Force" producing 4.5 wci at 55 CFM, at 300 watts; 2) RADONAWAY RP-265, producing 2.0 wci at 50 CFM, at 120 watts. Fans have an exterior disconnect switch. Fans are mounted with rubber Fernco couplings, for simplified replacement. No air intakes are present within 10' of the exhaust points.

3.5. Instrumentation and Control. There is no centralized instrumentation or control for the SSDS. The fans can be switched either from the adjacent positioned disconnect or at the marked breakers #36 and #42 on the panel box centrally located on the east wall. The exhaust fan systems are equipped with a vacuum indicator mounted in a visible location on a riser pipe per the attached schematic. The indicator consists of an oil filled U-tube style manometer. The indicator can be inspected by observing the level of colored fluid. The indicator is designed primarily to give a simple visual check that vacuum is present in the riser pipe, specifically by observation that the fluid levels on each side of the indicator are not even. Indicator is marked at level observed on March 27, 2017.

3.6 Sealing measures. Polyurethane sealants have been applied to control joints, floor cracks and slab penetrations to enhance the barrier between sub-slab and ambient air and improve the efficiency of the SSD System. Smoke testing has been employed to guide sealing operations. Materials used include Sika Sikaflex 1c-SLselfleveling joint sealant and Sika1a Sealant.

3.7 Monitoring Points. Monitoring Points are indicated on the system diagram. These consist of $\frac{3}{4}$ " drill points through the slab into which a digital micromanometer probe can be inserted. They are semi-permanently closed with backer and urethane sealant. These were established to aid in original system design and confirmatory testing, and in some cases are difficult to access. The primary future use would be in recertification of system effectiveness.

April 9, 2017 Page 3 3.8 System Configuration (see attached schematic for component locations)

Basic Systems

- West System FESTA RADON TECHNOLOGIES "Force" centrifugal blower, roof level sidewall exhaust; w/ (3) dedicated suction points, main plant, per attached schematic
- East System RADONAWAY RP-265 centrifugal blower roof level sidewall exhaust; w/ (2) dedicated suction points, main plant, per attached schematic

Common Elements:

- Comprehensive diagnostics to optimize component type and placement
- Suction points as follows: connection via 3" Schedule 40 PVC pipe, to cavity in subslab, with urethane seal; access hole to suction cavity by 5"core drill; suction cavity to consists of approximately 1 cu. ft. excavated material in sub-slab
- Proportioning valves for suction risers where required
- All exhaust points minimum 10' from any air intakes
- Exterior switch and *Sealtight* and/or MC conduit from fan housing to building interior; connection to panel with EMT or MC conduit
- U-tube style vacuum indicator per system, on vertical pipe run
- Urethane sealant with closed cell backer at slab joints, accessible cracks and penetrations
- Horizontal pipe as high as practicable, with metal bracketing direct to structure, sloped as required, above drop ceiling where applicable
- (6) vacuum test points to verify pressure extension field
- At completion, perform backdraft testing, measure pressure differentials and document; label components and provide system description and operational instructions
- Consult with client to develop operation, maintenance and periodic inspection plan
- Two year warranty; labor, installed components and sub-slab depressurization to objective (or greater); warranty is transferable and assignable to future owners of the building.

3.9 PERFORMANCE EVALUATION

Measurement date – March 27, 2017 - In order to verify system effectiveness and as a performance evaluation, test points were established at various distances from the suction cavities suitable to verify that the sub-slab of the subject area was being depressurized at least to the objective. See schematic for point locations.

| <u>TP #</u> | Value (neg wci) |
|-------------|-----------------|
| 1 | .014 |
| 2 | .023 |
| 3 | .007 |
| 4 | .014 |
| 5 | .012 |
| 6 | .014 |

East system vacuum gauge value --- 2.0 wci West system vacuum gauge value --- 4.5 wci April 9, 2017

Page 4 4.

SUB-SLAB DEPRESSURIZATION SYSTEM OPERATION

4.1. The fans should be kept in continuous operation. New York State Soil Vapor Intrusion Guidance (2006) specifies that operation, maintenance and monitoring of the SSD system should be included as part of site management.

4.2. Reset. Fans restart automatically in event of power loss.

4.3. In the event of unusual fan noise, failure to start, physical damage, or repeated circuit breaker trip, turn fan off and call for service. MITIGATION TECH - 800-637-9228

4.4. Regularly inspect system oil filled U-tube type manometers to verify that value, indicated by a mark on the gauge, has not changed significantly from the position of the mark. Gauge is inspected by observing the level of colored fluid.

4.5. Normal system operation requires unchanged structural conditions. Report any changes in structure, HVAC systems, slab conditions, etc., so that the change can be evaluated for impact on the SSD System. For service, call MITIGATION TECH at 800-637-9228

4.6. Ensure that a periodic inspection is performed

5. SSD SYSTEM PERFORMANCE MONITORING RECOMMENDATIONS

5.1. Monthly Monitoring

5.1.1. Inspect fan vacuum indicator to verify that value, indicated by a mark on the gauge, has not changed significantly from the position of the mark. Gauge is inspected by observing the level of colored fluid.

5.1.2. Record the observed measurement for each fan vacuum indicator on form labeled "SSD System Vacuum Gauge Record". Store all forms in the facility maintenance office.

5.1.3. Inspect visible components of SSD system for degraded condition.

5.1.4. For reporting, call MITIGATION TECH at 800-637-9228

5.2. Annual Inspection

5.2.1. Conduct a visual inspection of the complete System (e.g., vent fans, piping, warning devices, labeling)

5.2.2. Inspect all components for condition and proper operation;

5.2.3. Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYS DOH VI Guidance (i.e.; with the systems running, use smoke sticks to check for leaks through concrete cracks, floor joints and at the suction points; any leaks will be resealed until smoke is no longer observed flowing through the opening).

5.2.4. Inspect the exhaust or discharge point of each exhaust fan to verify that no air intakes have been located within 10 feet

5.2.5. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the entire slab). Perform a differential pressure reading at least one vacuum test point.

5.2.6. Interview appropriate building occupants seeking comments and observations regarding the operation of the System

April 9, 2017
Page 5
5.2.7. Check to see that the circuit breakers controlling the circuits on which the soil vapor vent fans operate are labeled "Soil Vapor System"

5.3. Annual Certification of Effectiveness

5.3.1. Upon completion of the tasks outlined in section 5.2 above, the installing contractor should submit a Certification of Effectiveness document, stating that the SSD system continues to perform to the purpose for which it was designed.

6. SUB-SLAB DEPRESSURIZATION SYSTEM MAINTENANCE

6.1. Routine Maintenance

6.1.1. Perform procedures as specified in sections 5.2 and 5.3

6.1.2. There are no routine component replacement procedures; Replace components upon findings of damage or failure

6.2. Non-Routine Maintenance

6.2.1. Non-routine maintenance may also be appropriate during the operation of the mitigation system. Examples of such situations include the following:

6.2.2. It is determined through inspection or notification by others that the vacuum gauge indicates the mitigation system is not operating properly

6.2.3. the mitigation system becomes damaged

6.2.4. the building has undergone renovations that may reduce the effectiveness of the mitigation system.

Certification

I hereby certify that the SSD Systems at this location are installed properly and are effective in achieving the above stated objective.

End of Report

Thank you

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 * OFFICE/FAX 585-637-7430



mitigation tech vapor intrusion specialists

October 12, 2017

Mr. Cody Martin Project Manager C & S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 Via email: Cody Martin <cmartin@cscos.com>

CONSTRUCTION COMPLETION REPORT

1. **OVERVIEW**

This document presents a construction report, performance evaluation, O&M advice and certification of effectiveness for the Sub-Slab Depressurization (SSDS) and Crawlspace Ventilation System (CVS) installed by Mitigation Tech at 65 South Dow St., Falconer, NY 14733, Buildings 5 & 6, as commissioned August 4, 2017.

Following a Design/Build SSD construction plan (dated April 4, 2017) and modified based on continuing assessments performed during construction, five single suction point SSD Systems were installed using principles and equipment typically used for soil vapor intrusion mitigation in buildings. The primary objective of implementing this preemptive measure was to mitigate potential intrusion of soil vapors. This would be achieved by maintaining a negative pressure of at least .002 water column inches (wci) below the slab relative to the air pressure above the slab, specifically in the sub-slab compartments in the southernmost sections of the buildings. All work is in compliance with the NYS DOH document, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006".

2. **BUILDING ASSESSMENT AND SYSTEM CONSTRUCTION**

Extensive sub-slab air communication testing and building assessment was performed at job start to refine data obtained from the preliminary building assessment. Both building #5 and #6 are characterized by systems of sub-slab structural arches and grade beams crisscrossing in a north to south and east to west pattern. The sub-slab spaces are either inaccessible or difficult to access.

In the case of Building #5, extensive backfilling has occurred over time, mostly via concrete patch, so that soil is present immediately below the surface in the central and northernmost portions of the foundation. The southernmost section is an open crawlspace with a dirt floor, wet in many sections. Four east to west grade beams define five compartments. We determined that active ventilation of southernmost sub-slab compartment bounded by Buildings #4 and #6A would constitute a zone of defense to intercept soil vapor migrating from the south. This would also

Re: Jamestown Container Companies - 65 South Dow St., Falconer, NY 14733 Construction Completion Report for SSD System - Building 5 & 6

October 12, 2017 Page 2

create some limited depressurization north of the first grade beam. In the case of Building #6, the sub-space of is in essence a crawlspace and ventilation is the most appropriate strategy to divert vapors from the building interior.

It was determined that five independent fan systems were necessary and practicable for creating sufficient air flow and exchange. Work continued with an analysis of appropriate locations for fans, suction cavities and other SSD system components. Both for physical protection and minimum impact on active use areas, riser pipes were surface mounted on exterior walls. Work was coordinated with client to minimize disturbance of work areas, relocate obstacles and control dust. Vacuum and air flow measurements were performed continuously during construction to ensure integrity of design. Various fans were evaluated in place and in combination to determine the most effective configuration. At commissioning, all components inspected for condition and proper operation. Premises left in clean condition.

Key on site personnel were Aaron Hurysz and Robert Beck, both highly experienced soil vapor intrusion technicians. Weather conditions were favorable. Daily tailgate meetings were held to review the daily work objectives and relevant aspects of the Health & Safety Plan. No accidents or incidents occurred during the construction.

3. SUB-SLAB DEPRESSURIZATION SYSTEM GENERAL DESCRIPTION

3.1. Introduction. The SSDS/CVS is maintaining sub-slab vacuum at all subject areas. The system consists of (5) sidewall mounted fans connected to vapor extraction points. The system was constructed using principles and equipment typically used for radon mitigation in buildings as detailed in the United States Environmental Protection Agency (EPA) EPA 402-K-03-007 (May 2006), and the final NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). The SSDS was installed as a permanent, integral addition to the structure. The key components of the SSDS are described below and are shown on an as-built diagram labeled "Sub-Slab System Diagram."

3.2. Suction Points. The suction points consists of a 10" core boring into the slab directly to crawlspace voids. Mechanically suspended 8" SCH 40 PVC pipe has been inserted into the boring and sealed with urethane sealant.

3.3. Riser Piping. The riser piping consists of 8" SCH 40 PVC pipe that follows a route from the extraction point to the exterior mounted vacuum fan. Weatherproof flashing or sealant has been applied to all penetrations. Vent pipes were installed at a pitch that ensures that any rainwater or condensation within the pipes drains downward into the ground beneath the slab. Piping is independently supported, and not supported from existing building mechanical systems. Piping is labeled at each level as "Sub-Slab Vent". Piping is connected using manufacturer's approved methods.

3.4. Exhaust Fans. Exhaust fans has been field selected for specific performance properties. Model: RADONAWAY RP-380 producing 5.0 wci at 350 CFM, at 140 watts. Fans have an exterior disconnect switch. Fans are mounted with rubber Fernco couplings, for simplified replacement.

3.5. Instrumentation and Control. There is no centralized instrumentation or control for the SSDS. The fans can be switched either from the adjacent positioned disconnect or at the marked breakers on the panel box centrally located. (Labeled "P" on schematic) The exhaust fan systems are equipped with a vacuum indicator mounted in a visible location near the riser pipe per the attached schematic. The indicator consists of a dial style manometer, Dwyer Model 5001 or oil filled U-tube. The indicator can be inspected by observing the position of the dial needle or oil level. (Labeled "G" on schematic) The indicator is designed primarily to give a simple visual check that vacuum is present in the riser pipe. Indicator is marked at level observed on August 4, 2017.

3.6 Sealing measures. Polyurethane sealants have been applied to control joints, floor cracks and slab penetrations to enhance the barrier between sub-slab and ambient air and improve the efficiency of the SSD System.

October 12, 2017

Page 3

Smoke testing has been employed to guide sealing operations. Materials used include Sika Sikaflex 1c-SLself-leveling joint sealant and Sika1a Sealant.

3.7 Monitoring Points. Monitoring Points are indicated on the system diagram. These consist of $\frac{3}{4}$ " drill points through the slab into which a digital micromanometer probe can be inserted. They are semi-permanently closed with backer and urethane sealant. These were established to aid in original system design and confirmatory testing, and in some cases are difficult to access. The primary future use would be in recertification of system effectiveness.

3.8 System Configuration (see attached schematic for component locations)

Furnish and Install:

- <u>Building 5</u> east to west space defined by south perimeter wall and southernmost east to west interior footer (2) RADONAWAY RP-380 high air flow blowers, sidewall mount, to provide sub-slab ventilation via 8" schedule 40 PVC; to conduct soil vapor from riser pipes to exhaust fan roof exhaust, with rubber connector fittings
- <u>Building 6</u> (includes influence at Building #5 sump room) (3) RADONAWAY RP-380 high air flow blowers, sidewall mount, to provide sub-slab ventilation via 8" schedule 40 PVC; to conduct soil vapor from riser pipes to exhaust fan roof exhaust, with rubber connector fittings
- Evaluate and repair as necessary, foundation vents and openings (some left open to allow for controlled through ventilation)
- Continuous building assessment and sub-slab vacuum measurement to optimize design
- Pre-construction consultation to obtain approval for component placements
- All interior pipe SCH 40 PVC with appropriate metal hangers, riser clamps, and additional accessories to properly attach components directly to structural members; sloped as required; routing to avoid interference with other building systems
- Exterior switch and *Sealtight* and/or MC conduit from fan housing to nearest electrical panel; extra cost if panel has insufficient capacity; final panel hookup by others at other's expense
- (5) Magnahelic Series 5001 vacuum indicators
- Urethane sealant at slab joints, accessible cracks and penetrations; backer where necessary
- At completion, perform backdraft testing, label components and provide system description and operating instructions
- At completion, confirm pressure differentials
- Consult with client representatives to develop operation, maintenance and periodic inspection plan
- Two year warranty; labor, installed components and sub-slab depressurization to objective (or greater)

3.9 PERFORMANCE EVALUATION

Measurement date – August 7, 2017 - In order to verify system effectiveness and as a performance evaluation, test points were established at various distances from the suction cavities suitable to verify that the sub-slab of the subject area was being depressurized at least to the objective. See schematic for point locations. (Labeled "TP" on schematic) Downward movement of test smoke was observed at each location and in addition, negative pressure values of -.004 or better were observed.

October 12, 2017 Page 4

4. SUB-SLAB DEPRESSURIZATION SYSTEM OPERATION

4.1. The fans should be kept in continuous operation. New York State Soil Vapor Intrusion Guidance (2006) specifies that operation, maintenance and monitoring of the SSD system should be included as part of site management.

4.2. Reset. Fans restart automatically in event of power loss.

4.3. In the event of unusual fan noise, failure to start, physical damage, or repeated circuit breaker trip, turn fan off and call for service. MITIGATION TECH - 800-637-9228

4.4. Regularly inspect system dial manometers to verify that value, indicated by a mark on the gauge, has not changed significantly from the position of the mark.

4.5. Normal system operation requires unchanged structural conditions. Report any changes in structure, HVAC systems, slab conditions, etc., so that the change can be evaluated for impact on the SSD System. For service, call MITIGATION TECH at 800-637-9228

4.6. Ensure that a periodic inspection is performed

5. SSD SYSTEM PERFORMANCE MONITORING RECOMMENDATIONS

5.1. Monthly Monitoring

5.1.1. Inspect fan vacuum indicator to verify that value, indicated by a mark on the gauge, has not changed significantly from the position of the mark.

5.1.2. Record the observed measurement for each fan vacuum indicator on form labeled "SSD System Vacuum Gauge Record". Store all forms in the facility maintenance office.

5.1.3. Inspect visible components of SSD system for degraded condition.

5.1.4. For reporting, call MITIGATION TECH at 800-637-9228

5.2. Annual Inspection

5.2.1. Conduct a visual inspection of the complete System (e.g., vent fans, piping, warning devices, labeling)

5.2.2. Inspect all components for condition and proper operation;

5.2.3. Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYS DOH VI Guidance (i.e.; with the systems running, use smoke sticks to check for leaks through concrete cracks, floor joints and at the suction points; any leaks will be resealed until smoke is no longer observed flowing through the opening).

5.2.4. Inspect the exhaust or discharge point of each exhaust fan to verify that no air intakes have been located within 10 feet

5.2.5. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the entire slab). Perform a differential pressure reading at least one vacuum test point.

5.2.6. Interview appropriate building occupants seeking comments and observations regarding the operation of the System

October 12, 2017 Page 5

5.2.7. Check to see that the circuit breakers controlling the circuits on which the soil vapor vent fans operate are labeled "Soil Vapor System"

5.3. Annual Certification of Effectiveness

5.3.1. Upon completion of the tasks outlined in section 5.2 above, the installing contractor should submit a Certification of Effectiveness document, stating that the SSD system continues to perform to the purpose for which it was designed.

6. SUB-SLAB DEPRESSURIZATION SYSTEM MAINTENANCE

6.1. Routine Maintenance

6.1.1. Perform procedures as specified in sections 5.2 and 5.3

6.1.2. There are no routine component replacement procedures; Replace components upon findings of damage or failure

6.2. Non-Routine Maintenance

6.2.1. Non-routine maintenance may also be appropriate during the operation of the mitigation system. Examples of such situations include the following:

6.2.2. It is determined through inspection or notification by others that the vacuum gauge indicates the mitigation system is not operating properly

- 6.2.3. the mitigation system becomes damaged
- 6.2.4. the building has undergone renovations that may reduce the effectiveness of the mitigation system.

Certification

I hereby certify that the SSD Systems at this location are installed properly and are effective in achieving the above stated objective.

Thank you

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 * OFFICE/FAX 585-637-7430



APPENDIX E SSDS INSPECTION REPORTS

mitigation tech vapor intrusion specialists

INSPECTION REPORT

November 22, 2021

Mr. Cody Martin Project Manager C & S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 Via email: Cody Martin <cmartin@cscos.com>

Re: Jamestown Container Companies – Building 9, 65 South Dow St., Falconer, NY Inspection Report for Sub-slab Depressurization System

For work completed November 22, 2021

- 1. Conducted a visual inspection of the complete System (e.g., vent fan, piping, warning device, labeling on systems, etc.): **SATISFACTORY**
- 2. Conducted an inspection of all surfaces to which vacuum is applied: SATISFACTORY
- 3. Inspected all components for condition and proper operation: SATISFACTORY
- 4. Identify and repair any leaks: NO LEAKS OBSERVED
- 5. Inspect the exhaust or discharge point to verify that no air intakes have been located nearby: NO AIR INTAKES WITHIN TEN FEET
- 6. Conduct an airstream velocity measurement: **SATISFACTORY**
- 7. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the entire slab): **SATISFACTORY**
- 8. Interview an appropriate individual seeking comments and observations regarding the operation of the System: **SATISFACTORY**

Thank you

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722 ***mitigationtech.com

mitigation tech vapor intrusion specialists

INSPECTION REPORT

November 22, 2021

Mr. Cody Martin Project Manager C & S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 *Via email: Cody Martin <cmartin@cscos.com>*

Re: Jamestown Container Companies – Buildings 5&6, 65 South Dow St., Falconer, NY Inspection Report for Sub-slab Ventilation System

For work completed November 22, 2021

- 1. Conducted a visual inspection of the complete System (e.g., vent fan, piping, warning device, labeling on systems, etc.): **SATISFACTORY**
- 2. Conducted an inspection of all surfaces to which vacuum is applied: SATISFACTORY
- 3. Inspected all components for condition and proper operation: SATISFACTORY
- 4. Identify and repair any leaks: NO LEAKS OBSERVED
- 5. Inspect the exhaust or discharge points to verify that no air intakes have been located nearby: NO AIR INTAKES WITHIN TEN FEET
- 6. Conduct an airstream velocity measurement: SATISFACTORY
- 7. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the slab sections per CCR dated 10.17.17): PROVISIONAL SATISFACTORY Test points showed a decline from previous measurements and in some cases a positive pressure differential, attributed to seasonal change of measurement timing and large unsealed openings on north side of foundation. Plant manager subsequently had openings sealed. Recommend subsequent testing during the heating season.
- 8. Interview an appropriate individual seeking comments and observations regarding the operation of the System: **SATISFACTORY**

Thank you

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722 ***mitigationtech.com

APPENDIX F Pre-Treatment Investigation Results
























ANALYTICAL REPORT

| Lab Number | 10404407 |
|-----------------|---|
| Lab Number: | L2101107 |
| Client: | C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203 |
| ATTN: Phone: | Cody Martin (716) 847-1630 |
| Project Name: | JCC/DOWCRAFT |
| Project Number: | N30 |
| Report Date: | 01/15/21 |
| | |

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-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Serial_No:01152114:33

Project Name:JCC/DOWCRAFTProject Number:N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L2101107-01 | MIHPT-1 | SOIL | Not Specified | 01/08/21 09:15 | 01/08/21 |
| L2101107-02 | MIHPT-3 | SOIL | Not Specified | 01/08/21 10:00 | 01/08/21 |
| L2101107-03 | MIHPT-4 | SOIL | Not Specified | 01/08/21 10:34 | 01/08/21 |
| L2101107-04 | MIHPT-9 | SOIL | Not Specified | 01/08/21 10:50 | 01/08/21 |



Project Name: JCC/DOWCRAFT Project Number: N30
 Lab Number:
 L2101107

 Report Date:
 01/15/21

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: JCC/DOWCRAFT Project Number: N30
 Lab Number:
 L2101107

 Report Date:
 01/15/21

Case Narrative (continued)

Report Submission

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.

L2101107-01 and -02: The methanol vial was analyzed in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to sample non-homogeneity.

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:

Michelle M. Maria Michelle M. Morris

Title: Technical Director/Representative

Date: 01/15/21



ORGANICS



VOLATILES



| | | | Serial_No:01152114:33 | | | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|--|--|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 | | | |
| Project Number: | N30 | | Report Date: | 01/15/21 | | | |
| | | SAMPLE RESULTS | | | | | |
| Lab ID: | L2101107-01 | | Date Collected: | 01/08/21 09:15 | | | |
| Client ID: | MIHPT-1 | | Date Received: | 01/08/21 | | | |
| Sample Location: | Not Specified | | Field Prep: | Not Specified | | | |
| Sample Depth: | | | | | | | |
| Matrix: | Soil | | | | | | |
| Analytical Method: | 1,8260C | | | | | | |
| Analytical Date: | 01/14/21 23:30 | | | | | | |
| Analyst: | NLK | | | | | | |
| Percent Solids: | 76% | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---------------------------------|---------------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - We | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/kg | 400 | 180 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 80 | 12. | 1 |
| Chloroform | ND | | ug/kg | 120 | 11. | 1 |
| Carbon tetrachloride | ND | | ug/kg | 80 | 18. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 80 | 10. | 1 |
| Dibromochloromethane | ND | | ug/kg | 80 | 11. | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 80 | 21. | 1 |
| Tetrachloroethene | ND | | ug/kg | 40 | 16. | 1 |
| Chlorobenzene | ND | | ug/kg | 40 | 10. | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 320 | 56. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 80 | 20. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 40 | 13. | 1 |
| Bromodichloromethane | ND | | ug/kg | 40 | 8.7 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 80 | 22. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 40 | 13. | 1 |
| Bromoform | ND | | ug/kg | 320 | 20. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 40 | 13. | 1 |
| Benzene | ND | | ug/kg | 40 | 13. | 1 |
| Toluene | ND | | ug/kg | 80 | 43. | 1 |
| Ethylbenzene | ND | | ug/kg | 80 | 11. | 1 |
| Chloromethane | ND | | ug/kg | 320 | 74. | 1 |
| Bromomethane | ND | | ug/kg | 160 | 46. | 1 |
| Vinyl chloride | ND | | ug/kg | 80 | 27. | 1 |
| Chloroethane | ND | | ug/kg | 160 | 36. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 80 | 19. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 120 | 11. | 1 |
| Trichloroethene | 1800 | | ug/kg | 40 | 11. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 160 | 12. | 1 |
| | | | | | | |



| | | | | | : | Serial_No | p:01152114:33 |
|---|---|--------|-----------|-------|-----------------------------------|---------------------------|---|
| Project Name: | JCC/DOWCRAFT | | | | Lab Nu | mber: | L2101107 |
| Project Number: | N30 | | | | Report | Date: | 01/15/21 |
| - | | SAMP | LE RESULT | S | | | |
| Lab ID: Client ID: Sample Location: | L2101107-01 MIHPT-1 Not Specified | | | | Date Col Date Ree Field Pre | lected: ceived: ep: | 01/08/21 09:15 01/08/21 Not Specified |
| Sample Depth: | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor |
| Volatile Organics b | by GC/MS - Westboroug | h Lab | | | | | |
| 1,3-Dichlorobenzene | | ND | | ua/ka | 160 | 12. | 1 |
| 1,4-Dichlorobenzene | | ND | | ua/ka | 160 | 14. | 1 |
| Methyl tert butyl ether | | ND | | ug/kg | 160 | 16. | 1 |
| p/m-Xylene | | ND | | ug/kg | 160 | 45. | 1 |
| o-Xylene | | ND | | ug/kg | 80 | 23. | 1 |
| cis-1,2-Dichloroethene | | 1300 | | ug/kg | 80 | 14. | 1 |
| Styrene | | ND | | ug/kg | 80 | 16. | 1 |
| Dichlorodifluoromethane | | ND | | ug/kg | 800 | 73. | 1 |
| Acetone | | ND | | ug/kg | 800 | 380 | 1 |
| Carbon disulfide | | ND | | ug/kg | 800 | 360 | 1 |
| 2-Butanone | | ND | | ug/kg | 800 | 180 | 1 |
| 4-Methyl-2-pentanone | | ND | | ug/kg | 800 | 100 | 1 |
| 2-Hexanone | | ND | | ug/kg | 800 | 94. | 1 |
| 1,2-Dibromoethane | | ND | | ug/kg | 80 | 22. | 1 |
| n-Butylbenzene | | ND | | ug/kg | 80 | 13. | 1 |
| sec-Butylbenzene | | ND | | ug/kg | 80 | 12. | 1 |
| tert-Butylbenzene | | ND | | ug/kg | 160 | 9.4 | 1 |
| 1,2-Dibromo-3-chloropro | pane | ND | | ug/kg | 240 | 80. | 1 |
| Isopropylbenzene | | ND | | ug/kg | 80 | 8.7 | 1 |
| p-Isopropyltoluene | | ND | | ug/kg | 80 | 8.7 | 1 |
| Naphthalene | | ND | | ug/kg | 320 | 52. | 1 |
| n-Propylbenzene | | ND | | ug/kg | 80 | 14. | 1 |
| 1,2,4-Trichlorobenzene | | ND | | ug/kg | 160 | 22. | 1 |
| 1,3,5-Trimethylbenzene | | ND | | ug/kg | 160 | 15. | 1 |
| 1,2,4-Trimethylbenzene | | ND | | ug/kg | 160 | 27. | 1 |
| Methyl Acetate | | ND | | ug/kg | 320 | 76. | 1 |
| Cyclohexane | | ND | | ug/kg | 800 | 44. | 1 |
| Freon-113 | | ND | | ug/kg | 320 | 55. | 1 |
| Methyl cyclohexane | | ND | | ug/kg | 320 | 48. | 1 |

| Total TIC Compounds | 174 | J | ug/kg | 1 |
|---------------------|-----|---|-------|---|
| Unknown | 174 | J | ug/kg | 1 |



| | | | | Serial_No:01152114:33 | | | |
|---------------------|----------------------|-------------|------------|-----------------------|------------------------------|-----------|-----------------|
| Project Name: | JCC/DOWCRAFT | | | | Lab N | umber: | L2101107 |
| Project Number: | N30 | | | | Report Date: 01/15/21 | | |
| | | SAMP | LE RESULTS | 6 | | | |
| Lab ID: | L2101107-01 | | | | Date Co | ollected: | 01/08/21 09:15 |
| Client ID: | MIHPT-1 | | | | Date Re | eceived: | 01/08/21 |
| Sample Location: | Not Specified | Field Prep: | | Not Specified | | | |
| Sample Depth: | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor |
| Volatile Organics b | y GC/MS - Westboroug | h Lab | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 104 | 70-130 | |
| Toluene-d8 | 95 | 70-130 | |
| 4-Bromofluorobenzene | 107 | 70-130 | |
| Dibromofluoromethane | 97 | 70-130 | |



| | | | Serial_No:01152114:33 | | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|--|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 | | |
| Project Number: | N30 | | Report Date: | 01/15/21 | | |
| | | SAMPLE RESULTS | | | | |
| Lab ID: | L2101107-01 | | Date Collected: | 01/08/21 09:15 | | |
| Client ID: | MIHPT-1 | | Date Received: | 01/08/21 | | |
| Sample Location: | Not Specified | | Field Prep: | Not Specified | | |
| Sample Depth: | | | | | | |
| Matrix: | Soil | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 01/15/21 10:25 | | | | | |
| Analyst: | JC | | | | | |
| Percent Solids: | 76% | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|---------------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Wes | stborough Lab | | | | | |
| Methylene chloride | ND | | ug/kg | 6.2 | 2.8 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.18 | 1 |
| Chloroform | ND | | ug/kg | 1.8 | 0.17 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 1.2 | 0.28 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 1.2 | 0.15 | 1 |
| Dibromochloromethane | ND | | ug/kg | 1.2 | 0.17 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.33 | 1 |
| Tetrachloroethene | 0.32 | J | ug/kg | 0.62 | 0.24 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.62 | 0.16 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 4.9 | 0.86 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 1.2 | 0.32 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.62 | 0.20 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.62 | 0.13 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.2 | 0.34 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.62 | 0.19 | 1 |
| Bromoform | ND | | ug/kg | 4.9 | 0.30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.62 | 0.20 | 1 |
| Benzene | ND | | ug/kg | 0.62 | 0.20 | 1 |
| Toluene | ND | | ug/kg | 1.2 | 0.67 | 1 |
| Ethylbenzene | ND | | ug/kg | 1.2 | 0.17 | 1 |
| Chloromethane | ND | | ug/kg | 4.9 | 1.1 | 1 |
| Bromomethane | ND | | ug/kg | 2.5 | 0.72 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.2 | 0.41 | 1 |
| Chloroethane | ND | | ug/kg | 2.5 | 0.56 | 1 |
| 1,1-Dichloroethene | 0.91 | J | ug/kg | 1.2 | 0.29 | 1 |
| trans-1,2-Dichloroethene | 2.1 | | ug/kg | 1.8 | 0.17 | 1 |
| Trichloroethene | 330 | | ug/kg | 0.62 | 0.17 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 2.5 | 0.18 | 1 |
| | | | | | | |



| | | | | | Serial_No:01152114:33 | | | |
|-------------------------|-----------------------|--------|-----------|-------|-----------------------|----------|-----------------|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab Nu | umber: | L2101107 | |
| Project Number: | N30 | | | | Report | t Date: | 01/15/21 | |
| | | SAMP | | S | | | | |
| Lab ID: | L2101107-01 | | | | Date Co | llected: | 01/08/21 09:15 | |
| Client ID: | MIHPT-1 | | | | Date Re | ceived: | 01/08/21 | |
| Sample Location: | Not Specified | | | | Field Pre | ep: | Not Specified | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics I | by GC/MS - Westboroug | h Lab | | | | | | |
| 1.3-Dichlorobenzene | | ND | | ua/ka | 2.5 | 0.18 | 1 | |
| 1,4-Dichlorobenzene | | ND | | ug/kg | 2.5 | 0.21 | 1 | |
| Methyl tert butyl ether | | ND | | ug/kg | 2.5 | 0.25 | 1 | |
| p/m-Xylene | | ND | | ug/kg | 2.5 | 0.69 | 1 | |
| o-Xylene | | ND | | ug/kg | 1.2 | 0.36 | 1 | |
| cis-1,2-Dichloroethene | | 580 | Е | ug/kg | 1.2 | 0.22 | 1 | |
| Styrene | | ND | | ug/kg | 1.2 | 0.24 | 1 | |
| Dichlorodifluoromethane | • | ND | | ug/kg | 12 | 1.1 | 1 | |
| Acetone | | ND | | ug/kg | 12 | 5.9 | 1 | |
| Carbon disulfide | | ND | | ug/kg | 12 | 5.6 | 1 | |
| 2-Butanone | | ND | | ug/kg | 12 | 2.7 | 1 | |
| 4-Methyl-2-pentanone | | ND | | ug/kg | 12 | 1.6 | 1 | |
| 2-Hexanone | | ND | | ug/kg | 12 | 1.4 | 1 | |
| 1,2-Dibromoethane | | ND | | ug/kg | 1.2 | 0.34 | 1 | |
| n-Butylbenzene | | ND | | ug/kg | 1.2 | 0.20 | 1 | |
| sec-Butylbenzene | | ND | | ug/kg | 1.2 | 0.18 | 1 | |
| tert-Butylbenzene | | ND | | ug/kg | 2.5 | 0.14 | 1 | |
| 1,2-Dibromo-3-chloropro | ppane | ND | | ug/kg | 3.7 | 1.2 | 1 | |
| Isopropylbenzene | | ND | | ug/kg | 1.2 | 0.13 | 1 | |
| p-Isopropyltoluene | | ND | | ug/kg | 1.2 | 0.13 | 1 | |
| Naphthalene | | ND | | ug/kg | 4.9 | 0.80 | 1 | |
| n-Propylbenzene | | ND | | ug/kg | 1.2 | 0.21 | 1 | |
| 1,2,4-Trichlorobenzene | | ND | | ug/kg | 2.5 | 0.33 | 1 | |
| 1,3,5-Trimethylbenzene | | ND | | ug/kg | 2.5 | 0.24 | 1 | |
| 1,2,4-Trimethylbenzene | | ND | | ug/kg | 2.5 | 0.41 | 1 | |
| Methyl Acetate | | ND | | ug/kg | 4.9 | 1.2 | 1 | |
| Cyclohexane | | ND | | ug/kg | 12 | 0.67 | 1 | |
| Freon-113 | | ND | | ug/kg | 4.9 | 0.85 | 1 | |
| Methyl cyclohexane | | 2.4 | J | ua/ka | 4.9 | 0.74 | 1 | |

No Tentatively Identified Compounds ND ug/kg 1



| | | | | | Serial_No:01152114:33 | | | |
|---------------------|----------------------|--------|-----------|-------|-----------------------|-----------|-----------------|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab N | umber: | L2101107 | |
| Project Number: | N30 | N30 | | | Repor | t Date: | 01/15/21 | |
| SAMPLE RESULTS | | | | | | | | |
| Lab ID: | L2101107-01 | | | | Date Co | ollected: | 01/08/21 09:15 | |
| Client ID: | MIHPT-1 | | | | Date Re | eceived: | 01/08/21 | |
| Sample Location: | Not Specified | ed | | | Field Pr | ep: | Not Specified | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics b | y GC/MS - Westboroug | h Lab | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 99 | 70-130 | |
| Toluene-d8 | 100 | 70-130 | |
| 4-Bromofluorobenzene | 97 | 70-130 | |
| Dibromofluoromethane | 102 | 70-130 | |



| | | | Serial_No:01152114:33 | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 | |
| Project Number: | N30 | | Report Date: | 01/15/21 | |
| | | SAMPLE RESULTS | | | |
| Lab ID: | L2101107-02 | | Date Collected: | 01/08/21 10:00 | |
| Client ID: | MIHPT-3 | | Date Received: | 01/08/21 | |
| Sample Location: | Not Specified | | Field Prep: | Not Specified | |
| Sample Depth: | | | | | |
| Matrix: | Soil | | | | |
| Analytical Method: | 1,8260C | | | | |
| Analytical Date: | 01/14/21 23:55 | | | | |
| Analyst: | NLK | | | | |
| Percent Solids: | 81% | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
|--|--------|-----------|-------|-----|-----|-----------------|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Methylene chloride | ND | | ug/kg | 360 | 170 | 1 | | |
| 1,1-Dichloroethane | ND | | ug/kg | 73 | 10. | 1 | | |
| Chloroform | ND | | ug/kg | 110 | 10. | 1 | | |
| Carbon tetrachloride | ND | | ug/kg | 73 | 17. | 1 | | |
| 1,2-Dichloropropane | ND | | ug/kg | 73 | 9.1 | 1 | | |
| Dibromochloromethane | ND | | ug/kg | 73 | 10. | 1 | | |
| 1,1,2-Trichloroethane | ND | | ug/kg | 73 | 19. | 1 | | |
| Tetrachloroethene | ND | | ug/kg | 36 | 14. | 1 | | |
| Chlorobenzene | ND | | ug/kg | 36 | 9.3 | 1 | | |
| Trichlorofluoromethane | ND | | ug/kg | 290 | 51. | 1 | | |
| 1,2-Dichloroethane | ND | | ug/kg | 73 | 19. | 1 | | |
| 1,1,1-Trichloroethane | ND | | ug/kg | 36 | 12. | 1 | | |
| Bromodichloromethane | ND | | ug/kg | 36 | 8.0 | 1 | | |
| trans-1,3-Dichloropropene | ND | | ug/kg | 73 | 20. | 1 | | |
| cis-1,3-Dichloropropene | ND | | ug/kg | 36 | 12. | 1 | | |
| Bromoform | ND | | ug/kg | 290 | 18. | 1 | | |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 36 | 12. | 1 | | |
| Benzene | ND | | ug/kg | 36 | 12. | 1 | | |
| Toluene | ND | | ug/kg | 73 | 40. | 1 | | |
| Ethylbenzene | ND | | ug/kg | 73 | 10. | 1 | | |
| Chloromethane | ND | | ug/kg | 290 | 68. | 1 | | |
| Bromomethane | ND | | ug/kg | 140 | 42. | 1 | | |
| Vinyl chloride | ND | | ug/kg | 73 | 24. | 1 | | |
| Chloroethane | ND | | ug/kg | 140 | 33. | 1 | | |
| 1,1-Dichloroethene | ND | | ug/kg | 73 | 17. | 1 | | |
| trans-1,2-Dichloroethene | ND | | ug/kg | 110 | 10. | 1 | | |
| Trichloroethene | 2500 | | ug/kg | 36 | 10. | 1 | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 140 | 10. | 1 | | |
| | | | | | | | | |



| | Serial_No:01152114:33 | | | | | 0:01152114:33 | | | |
|-------------------------|-----------------------|--------|-----------|-------|-----------|---------------|-----------------|--|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab Nu | mber: | L2101107 | | |
| Project Number: | N30 | | | | Report | Date: | 01/15/21 | | |
| | | SAMP | | S | | | | | |
| Lab ID: | L2101107-02 | | | | Date Co | llected: | 01/08/21 10:00 | | |
| Client ID: | MIHPT-3 | | | | Date Re | ceived: | 01/08/21 | | |
| Sample Location: | Not Specified | | | | Field Pre | ep: | Not Specified | | |
| Sample Depth: | Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
| Volatile Organics b | by GC/MS - Westboroug | ıh Lab | | | | | | | |
| 1,3-Dichlorobenzene | | ND | | ua/ka | 140 | 11. | 1 | | |
| 1,4-Dichlorobenzene | | ND | | ug/kg | 140 | 12. | 1 | | |
| Methyl tert butyl ether | | ND | | ug/kg | 140 | 15. | 1 | | |
| p/m-Xylene | | ND | | ug/kg | 140 | 41. | 1 | | |
| o-Xylene | | ND | | ug/kg | 73 | 21. | 1 | | |
| cis-1,2-Dichloroethene | | 1300 | | ug/kg | 73 | 13. | 1 | | |
| Styrene | | ND | | ug/kg | 73 | 14. | 1 | | |
| Dichlorodifluoromethane | | ND | | ug/kg | 730 | 67. | 1 | | |
| Acetone | | ND | | ug/kg | 730 | 350 | 1 | | |
| Carbon disulfide | | ND | | ug/kg | 730 | 330 | 1 | | |
| 2-Butanone | | ND | | ug/kg | 730 | 160 | 1 | | |
| 4-Methyl-2-pentanone | | ND | | ug/kg | 730 | 93. | 1 | | |
| 2-Hexanone | | ND | | ug/kg | 730 | 86. | 1 | | |
| 1,2-Dibromoethane | | ND | | ug/kg | 73 | 20. | 1 | | |
| n-Butylbenzene | | ND | | ug/kg | 73 | 12. | 1 | | |
| sec-Butylbenzene | | ND | | ug/kg | 73 | 11. | 1 | | |
| tert-Butylbenzene | | ND | | ug/kg | 140 | 8.6 | 1 | | |
| 1,2-Dibromo-3-chloropro | pane | ND | | ug/kg | 220 | 73. | 1 | | |
| Isopropylbenzene | | ND | | ug/kg | 73 | 8.0 | 1 | | |
| p-Isopropyltoluene | | ND | | ug/kg | 73 | 8.0 | 1 | | |
| Naphthalene | | ND | | ug/kg | 290 | 47. | 1 | | |
| n-Propylbenzene | | ND | | ug/kg | 73 | 12. | 1 | | |
| 1,2,4-Trichlorobenzene | | ND | | ug/kg | 140 | 20. | 1 | | |
| 1,3,5-Trimethylbenzene | | ND | | ug/kg | 140 | 14. | 1 | | |
| 1,2,4-Trimethylbenzene | | ND | | ug/kg | 140 | 24. | 1 | | |
| Methyl Acetate | | ND | | ug/kg | 290 | 69. | 1 | | |
| Cyclohexane | | ND | | ug/kg | 730 | 40. | 1 | | |
| Freon-113 | | ND | | ug/kg | 290 | 50. | 1 | | |
| Methyl cyclohexane | | ND | | ug/kg | 290 | 44. | 1 | | |

No Tentatively Identified Compounds ND ug/kg 1

| Volatile Organics b | oy GC/MS - Westboroug | h Lab | | | | | | |
|--------------------------------|--------------------------|--------|------------|-------|---------------------|-----------------|---------------------------|--|
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Sample Depth: | | | | | | | | |
| Client ID: Sample Location: | MIHPT-3 Not Specified | | | | Date Re Field Pr | eceived: ep: | 01/08/21 Not Specified | |
| Lab ID [.] | 1 2101107-02 | | | | Date Co | ollected. | 01/08/21 10:00 | |
| Project Number. | 1130 | SAMP | LE RESULTS | 6 | Керог | t Date. | 01/15/21 | |
| Project Number: | NOO | | | | Popor | t Data: | 04/45/04 | |
| Project Name: | JCC/DOWCRAFT | | | | Lab N | umber: | L2101107 | |
| | | | | | | Serial_No | 01152114:33 | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 108 | 70-130 | |
| Toluene-d8 | 93 | 70-130 | |
| 4-Bromofluorobenzene | 106 | 70-130 | |
| Dibromofluoromethane | 101 | 70-130 | |



| | | | Serial_No:01152114:33 | | |
|--------------------|----------------|----------------|-----------------------|----------------|--|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 | |
| Project Number: | N30 | | Report Date: | 01/15/21 | |
| | | SAMPLE RESULTS | | | |
| Lab ID: | L2101107-02 | | Date Collected: | 01/08/21 10:00 | |
| Client ID: | MIHPT-3 | | Date Received: | 01/08/21 | |
| Sample Location: | Not Specified | | Field Prep: | Not Specified | |
| Sample Depth: | | | | | |
| Matrix: | Soil | | | | |
| Analytical Method: | 1,8260C | | | | |
| Analytical Date: | 01/15/21 09:33 | | | | |
| Analyst: | JC | | | | |
| Percent Solids: | 81% | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
|--|--------|-----------|-------|------|------|-----------------|--|--|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | |
| Methylene chloride | ND | | ug/kg | 6.2 | 2.8 | 1 | | |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.18 | 1 | | |
| Chloroform | ND | | ug/kg | 1.8 | 0.17 | 1 | | |
| Carbon tetrachloride | ND | | ug/kg | 1.2 | 0.28 | 1 | | |
| 1,2-Dichloropropane | ND | | ug/kg | 1.2 | 0.15 | 1 | | |
| Dibromochloromethane | ND | | ug/kg | 1.2 | 0.17 | 1 | | |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.33 | 1 | | |
| Tetrachloroethene | ND | | ug/kg | 0.62 | 0.24 | 1 | | |
| Chlorobenzene | ND | | ug/kg | 0.62 | 0.16 | 1 | | |
| Trichlorofluoromethane | ND | | ug/kg | 4.9 | 0.86 | 1 | | |
| 1,2-Dichloroethane | ND | | ug/kg | 1.2 | 0.32 | 1 | | |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.62 | 0.21 | 1 | | |
| Bromodichloromethane | ND | | ug/kg | 0.62 | 0.13 | 1 | | |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.2 | 0.34 | 1 | | |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.62 | 0.20 | 1 | | |
| Bromoform | ND | | ug/kg | 4.9 | 0.30 | 1 | | |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.62 | 0.20 | 1 | | |
| Benzene | ND | | ug/kg | 0.62 | 0.20 | 1 | | |
| Toluene | ND | | ug/kg | 1.2 | 0.67 | 1 | | |
| Ethylbenzene | ND | | ug/kg | 1.2 | 0.17 | 1 | | |
| Chloromethane | ND | | ug/kg | 4.9 | 1.2 | 1 | | |
| Bromomethane | ND | | ug/kg | 2.5 | 0.72 | 1 | | |
| Vinyl chloride | 7.6 | | ug/kg | 1.2 | 0.41 | 1 | | |
| Chloroethane | ND | | ug/kg | 2.5 | 0.56 | 1 | | |
| 1,1-Dichloroethene | ND | | ug/kg | 1.2 | 0.29 | 1 | | |
| trans-1,2-Dichloroethene | 1.8 | | ug/kg | 1.8 | 0.17 | 1 | | |
| Trichloroethene | 530 | E | ug/kg | 0.62 | 0.17 | 1 | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 2.5 | 0.18 | 1 | | |
| | | | | | | | | |



| | | | | | | Serial_No | 0:01152114:33 | | |
|-------------------------|-----------------------|--------|-----------|-------|-----------|-----------|-----------------|--|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab Nu | ımber: | L2101107 | | |
| Project Number: | N30 | | | | Report | Date: | 01/15/21 | | |
| | | SAMP | | S | | | | | |
| Lab ID: | L2101107-02 | | | | Date Co | llected: | 01/08/21 10:00 | | |
| Client ID: | MIHPT-3 | | | | Date Re | ceived: | 01/08/21 | | |
| Sample Location: | Not Specified | | | | Field Pre | ep: | Not Specified | | |
| Sample Depth: | | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
| Volatile Organics b | by GC/MS - Westboroug | h Lab | | | | | | | |
| 1,3-Dichlorobenzene | | ND | | ug/kg | 2.5 | 0.18 | 1 | | |
| 1,4-Dichlorobenzene | | ND | | ug/kg | 2.5 | 0.21 | 1 | | |
| Methyl tert butyl ether | | ND | | ug/kg | 2.5 | 0.25 | 1 | | |
| p/m-Xylene | | ND | | ug/kg | 2.5 | 0.69 | 1 | | |
| o-Xylene | | ND | | ug/kg | 1.2 | 0.36 | 1 | | |
| cis-1,2-Dichloroethene | | 580 | Е | ug/kg | 1.2 | 0.22 | 1 | | |
| Styrene | | ND | | ug/kg | 1.2 | 0.24 | 1 | | |
| Dichlorodifluoromethane | | ND | | ug/kg | 12 | 1.1 | 1 | | |
| Acetone | | ND | | ug/kg | 12 | 5.9 | 1 | | |
| Carbon disulfide | | ND | | ug/kg | 12 | 5.6 | 1 | | |
| 2-Butanone | | ND | | ug/kg | 12 | 2.7 | 1 | | |
| 4-Methyl-2-pentanone | | ND | | ug/kg | 12 | 1.6 | 1 | | |
| 2-Hexanone | | ND | | ug/kg | 12 | 1.4 | 1 | | |
| 1,2-Dibromoethane | | ND | | ug/kg | 1.2 | 0.34 | 1 | | |
| n-Butylbenzene | | ND | | ug/kg | 1.2 | 0.21 | 1 | | |
| sec-Butylbenzene | | ND | | ug/kg | 1.2 | 0.18 | 1 | | |
| tert-Butylbenzene | | ND | | ug/kg | 2.5 | 0.14 | 1 | | |
| 1,2-Dibromo-3-chloropro | pane | ND | | ug/kg | 3.7 | 1.2 | 1 | | |
| Isopropylbenzene | | ND | | ug/kg | 1.2 | 0.13 | 1 | | |
| p-Isopropyltoluene | | ND | | ug/kg | 1.2 | 0.13 | 1 | | |
| Naphthalene | | ND | | ug/kg | 4.9 | 0.80 | 1 | | |
| n-Propylbenzene | | ND | | ug/kg | 1.2 | 0.21 | 1 | | |
| 1,2,4-Trichlorobenzene | | ND | | ug/kg | 2.5 | 0.34 | 1 | | |
| 1,3,5-Trimethylbenzene | | ND | | ug/kg | 2.5 | 0.24 | 1 | | |
| 1,2,4-Trimethylbenzene | | ND | | ug/kg | 2.5 | 0.41 | 1 | | |
| Methyl Acetate | | ND | | ug/kg | 4.9 | 1.2 | 1 | | |
| Cyclohexane | | ND | | ug/kg | 12 | 0.67 | 1 | | |
| Freon-113 | | ND | | ug/kg | 4.9 | 0.86 | 1 | | |
| Methyl cyclohexane | | 3.8 | J | ug/kg | 4.9 | 0.74 | 1 | | |

No Tentatively Identified Compounds ND ug/kg 1



| | | | | | | Serial_No | 01152114:33 | |
|----------------------|-----------------------|--------|------------|-------|----------|-----------|-----------------|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab N | umber: | L2101107 | |
| Project Number: | N30 | | | | Repor | t Date: | 01/15/21 | |
| | | SAMP | LE RESULTS | 5 | | | | |
| Lab ID: | L2101107-02 | | | | Date Co | ollected: | 01/08/21 10:00 | |
| Client ID: | MIHPT-3 | | | | Date Re | eceived: | 01/08/21 | |
| Sample Location: | Not Specified | | | | Field Pr | ep: | Not Specified | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics by | y GC/MS - Westborough | n Lab | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 100 | 70-130 | |
| Toluene-d8 | 99 | 70-130 | |
| 4-Bromofluorobenzene | 97 | 70-130 | |
| Dibromofluoromethane | 100 | 70-130 | |



| | | | | Serial_No:01152114:33 | | |
|--------------------|----------------|----|----------------|-----------------------|----------------|--|
| Project Name: | JCC/DOWCRAFT | | | Lab Number: | L2101107 | |
| Project Number: | N30 | | | Report Date: | 01/15/21 | |
| | | | SAMPLE RESULTS | | | |
| Lab ID: | L2101107-03 | D2 | | Date Collected: | 01/08/21 10:34 | |
| Client ID: | MIHPT-4 | | | Date Received: | 01/08/21 | |
| Sample Location: | Not Specified | | | Field Prep: | Not Specified | |
| Sample Depth: | | | | | | |
| Matrix: | Soil | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 01/15/21 09:08 | | | | | |
| Analyst: | JC | | | | | |

79%

Percent Solids:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------------------------------|--------------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - West | tborough Lab | | | | | |
| Methylene chloride | ND | | ug/kg | 1800 | 840 | 5 |
| 1,1-Dichloroethane | ND | | ug/kg | 370 | 53. | 5 |
| Chloroform | ND | | ug/kg | 550 | 51. | 5 |
| Carbon tetrachloride | ND | | ug/kg | 370 | 84. | 5 |
| 1,2-Dichloropropane | ND | | ug/kg | 370 | 46. | 5 |
| Dibromochloromethane | ND | | ug/kg | 370 | 51. | 5 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 370 | 98. | 5 |
| Tetrachloroethene | ND | | ug/kg | 180 | 72. | 5 |
| Chlorobenzene | ND | | ug/kg | 180 | 47. | 5 |
| Trichlorofluoromethane | ND | | ug/kg | 1500 | 260 | 5 |
| 1,2-Dichloroethane | ND | | ug/kg | 370 | 94. | 5 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 180 | 61. | 5 |
| Bromodichloromethane | ND | | ug/kg | 180 | 40. | 5 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 370 | 100 | 5 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 180 | 58. | 5 |
| Bromoform | ND | | ug/kg | 1500 | 90. | 5 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 180 | 61. | 5 |
| Benzene | ND | | ug/kg | 180 | 61. | 5 |
| Toluene | ND | | ug/kg | 370 | 200 | 5 |
| Ethylbenzene | ND | | ug/kg | 370 | 52. | 5 |
| Chloromethane | ND | | ug/kg | 1500 | 340 | 5 |
| Bromomethane | ND | | ug/kg | 740 | 210 | 5 |
| Vinyl chloride | ND | | ug/kg | 370 | 120 | 5 |
| Chloroethane | ND | | ug/kg | 740 | 170 | 5 |
| 1,1-Dichloroethene | ND | | ug/kg | 370 | 87. | 5 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 550 | 50. | 5 |
| Trichloroethene | 130000 | E | ug/kg | 180 | 50. | 5 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 740 | 53. | 5 |
| | | | | | | |



| | | | Serial_No:01152114:33 | | | | | |
|---|---|---------|-----------------------|-------|-----------------------------------|--------------------------|---|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab Nu | mber: | L2101107 | |
| Project Number: | N30 | | | | Report | Date: | 01/15/21 | |
| - | | SAMP | | S | - | | | |
| Lab ID: Client ID: Sample Location: | L2101107-03 MIHPT-4 Not Specified | D2 | | | Date Col Date Rec Field Pre | lected: ceived: p: | 01/08/21 10:34 01/08/21 Not Specified | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics b | oy GC/MS - Westborou | igh Lab | | | | | | |
| 1.3-Dichlorobenzene | | ND | | ua/ka | 740 | 54. | 5 | |
| 1.4-Dichlorobenzene | | ND | | ua/ka | 740 | 63. | 5 | |
| Methyl tert butyl ether | | ND | | ug/kg | 740 | 74. | 5 | |
| p/m-Xylene | | ND | | ug/kg | 740 | 200 | 5 | |
| o-Xylene | | ND | | ug/kg | 370 | 110 | 5 | |
| cis-1,2-Dichloroethene | | 4400 | | ug/kg | 370 | 64. | 5 | |
| Styrene | | ND | | ug/kg | 370 | 72. | 5 | |
| Dichlorodifluoromethane | | ND | | ug/kg | 3700 | 340 | 5 | |
| Acetone | | ND | | ug/kg | 3700 | 1800 | 5 | |
| Carbon disulfide | | ND | | ug/kg | 3700 | 1700 | 5 | |
| 2-Butanone | | ND | | ug/kg | 3700 | 820 | 5 | |
| 4-Methyl-2-pentanone | | ND | | ug/kg | 3700 | 470 | 5 | |
| 2-Hexanone | | ND | | ug/kg | 3700 | 430 | 5 | |
| 1,2-Dibromoethane | | ND | | ug/kg | 370 | 100 | 5 | |
| n-Butylbenzene | | ND | | ug/kg | 370 | 61. | 5 | |
| sec-Butylbenzene | | ND | | ug/kg | 370 | 54. | 5 | |
| tert-Butylbenzene | | ND | | ug/kg | 740 | 43. | 5 | |
| 1,2-Dibromo-3-chloropro | pane | ND | | ug/kg | 1100 | 370 | 5 | |
| Isopropylbenzene | | ND | | ug/kg | 370 | 40. | 5 | |
| p-Isopropyltoluene | | ND | | ug/kg | 370 | 40. | 5 | |
| Naphthalene | | ND | | ug/kg | 1500 | 240 | 5 | |
| n-Propylbenzene | | ND | | ug/kg | 370 | 63. | 5 | |
| 1,2,4-Trichlorobenzene | | ND | | ug/kg | 740 | 100 | 5 | |
| 1,3,5-Trimethylbenzene | | ND | | ug/kg | 740 | 71. | 5 | |
| 1,2,4-Trimethylbenzene | | ND | | ug/kg | 740 | 120 | 5 | |
| Methyl Acetate | | ND | | ug/kg | 1500 | 350 | 5 | |
| Cyclohexane | | ND | | ug/kg | 3700 | 200 | 5 | |
| Freon-113 | | ND | | ug/kg | 1500 | 250 | 5 | |
| Methyl cyclohexane | | 950 | J | ug/kg | 1500 | 220 | 5 | |

| No Tentatively Identified Compounds | ND | ug/kg | 5 |
|-------------------------------------|----|-------|---|
|-------------------------------------|----|-------|---|

| | | | | | Serial_No:01152114:33 | | | | |
|---------------------|--|--------|------------|-------|-----------------------|-----------|-----------------|--|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab N | umber: | L2101107 | | |
| Project Number: | N30 | | | | Repor | t Date: | 01/15/21 | | |
| | | SAMP | LE RESULTS | 6 | | | | | |
| Lab ID: | L2101107-03 | D2 | | | Date Co | ollected: | 01/08/21 10:34 | | |
| Client ID: | MIHPT-4 | | | | Date Re | eceived: | 01/08/21 | | |
| Sample Location: | Not Specified | | | | Field Pr | ep: | Not Specified | | |
| Sample Depth: | | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | | |
| Volatile Organics b | Volatile Organics by GC/MS - Westborough Lab | | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 99 | 70-130 | |
| Toluene-d8 | 98 | 70-130 | |
| 4-Bromofluorobenzene | 95 | 70-130 | |
| Dibromofluoromethane | 98 | 70-130 | |



| | | Serial_No:01152114:33 | | | | |
|--------------------|----------------|-----------------------|----------------|-----------------|----------------|--|
| Project Name: | JCC/DOWCRAFT | | | Lab Number: | L2101107 | |
| Project Number: | N30 | | | Report Date: | 01/15/21 | |
| | | | SAMPLE RESULTS | | | |
| Lab ID: | L2101107-03 | D | | Date Collected: | 01/08/21 10:34 | |
| Client ID: | MIHPT-4 | | | Date Received: | 01/08/21 | |
| Sample Location: | Not Specified | | | Field Prep: | Not Specified | |
| Sample Depth: | | | | | | |
| Matrix: | Soil | | | | | |
| Analytical Method: | 1,8260C | | | | | |
| Analytical Date: | 01/15/21 00:20 | | | | | |
| Analyst: | NLK | | | | | |
| Percent Solids: | 79% | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|------------|-----------|------------|-----------|------------|-------------------|
| Volatile Organics by GC/MS - Westbo | brough Lab | | | | | |
| Trichloroethene | 160000 | | ug/kg | 370 | 100 | 10 |
| Surrogate | | | % Recovery | Qualifier | Acce Ci | eptance iteria |
| 1,2-Dichloroethane-d4 | | | 106 | | 7 | 70-130 |
| Toluene-d8 | | | 95 | | 7 | 70-130 |
| 4-Bromofluorobenzene | | | 106 | | 7 | 70-130 |
| Dibromofluoromethane | | | 98 | | 7 | 70-130 |



| | | Serial_No:01152114:33 | | | | | |
|--------------------|----------------|-----------------------|-----------------|----------------|--|--|--|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 | | | |
| Project Number: | N30 | | Report Date: | 01/15/21 | | | |
| | | SAMPLE RESULTS | | | | | |
| Lab ID: | L2101107-04 | | Date Collected: | 01/08/21 10:50 | | | |
| Client ID: | MIHPT-9 | | Date Received: | 01/08/21 | | | |
| Sample Location: | Not Specified | | Field Prep: | Not Specified | | | |
| Sample Depth: | | | | | | | |
| Matrix: | Soil | | | | | | |
| Analytical Method: | 1,8260C | | | | | | |
| Analytical Date: | 01/15/21 00:44 | | | | | | |
| Analyst: | NLK | | | | | | |
| Percent Solids: | 72% | | | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|-----------------------------------|-------------|-----------|-------|-----|-----|-----------------|--|
| Volatile Organics by GC/MS - West | borough Lab | | | | | | |
| Methylene chloride | ND | | ug/kg | 410 | 190 | 1 | |
| 1,1-Dichloroethane | ND | | ug/kg | 81 | 12. | 1 | |
| Chloroform | ND | | ug/kg | 120 | 11. | 1 | |
| Carbon tetrachloride | ND | | ug/kg | 81 | 19. | 1 | |
| 1,2-Dichloropropane | ND | | ug/kg | 81 | 10. | 1 | |
| Dibromochloromethane | ND | | ug/kg | 81 | 11. | 1 | |
| 1,1,2-Trichloroethane | ND | | ug/kg | 81 | 22. | 1 | |
| Tetrachloroethene | ND | | ug/kg | 41 | 16. | 1 | |
| Chlorobenzene | ND | | ug/kg | 41 | 10. | 1 | |
| Trichlorofluoromethane | ND | | ug/kg | 320 | 56. | 1 | |
| 1,2-Dichloroethane | ND | | ug/kg | 81 | 21. | 1 | |
| 1,1,1-Trichloroethane | ND | | ug/kg | 41 | 14. | 1 | |
| Bromodichloromethane | ND | | ug/kg | 41 | 8.9 | 1 | |
| trans-1,3-Dichloropropene | ND | | ug/kg | 81 | 22. | 1 | |
| cis-1,3-Dichloropropene | ND | | ug/kg | 41 | 13. | 1 | |
| Bromoform | ND | | ug/kg | 320 | 20. | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 41 | 13. | 1 | |
| Benzene | ND | | ug/kg | 41 | 13. | 1 | |
| Toluene | ND | | ug/kg | 81 | 44. | 1 | |
| Ethylbenzene | ND | | ug/kg | 81 | 11. | 1 | |
| Chloromethane | ND | | ug/kg | 320 | 76. | 1 | |
| Bromomethane | ND | | ug/kg | 160 | 47. | 1 | |
| Vinyl chloride | ND | | ug/kg | 81 | 27. | 1 | |
| Chloroethane | ND | | ug/kg | 160 | 37. | 1 | |
| 1,1-Dichloroethene | ND | | ug/kg | 81 | 19. | 1 | |
| trans-1,2-Dichloroethene | 55 | J | ug/kg | 120 | 11. | 1 | |
| Trichloroethene | 88 | | ug/kg | 41 | 11. | 1 | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 160 | 12. | 1 | |
| | | | | | | | |



| | | | Serial_No:01152 | | | | | |
|-------------------------|-----------------------|--------|-----------------|-------|-----------|----------|-----------------|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab Nu | mber: | L2101107 | |
| Project Number: | N30 | | | | Report | Date: | 01/15/21 | |
| | | SAMP | | S | | | | |
| Lab ID: | L2101107-04 | | | | Date Col | llected: | 01/08/21 10:50 | |
| Client ID: | MIHPT-9 | | | | Date Re | ceived: | 01/08/21 | |
| Sample Location: | Not Specified | | | | Field Pre | ep: | Not Specified | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics b | by GC/MS - Westboroug | lh Lab | | | | | | |
| 1.3-Dichlorobenzene | | ND | | ua/ka | 160 | 12. | 1 | |
| 1,4-Dichlorobenzene | | ND | | ug/kg | 160 | 14. | 1 | |
| Methyl tert butyl ether | | ND | | ug/kg | 160 | 16. | 1 | |
| p/m-Xylene | | ND | | ug/kg | 160 | 46. | 1 | |
| o-Xylene | | ND | | ug/kg | 81 | 24. | 1 | |
| cis-1,2-Dichloroethene | | 5700 | | ug/kg | 81 | 14. | 1 | |
| Styrene | | ND | | ug/kg | 81 | 16. | 1 | |
| Dichlorodifluoromethane | | ND | | ug/kg | 810 | 74. | 1 | |
| Acetone | | ND | | ug/kg | 810 | 390 | 1 | |
| Carbon disulfide | | ND | | ug/kg | 810 | 370 | 1 | |
| 2-Butanone | | ND | | ug/kg | 810 | 180 | 1 | |
| 4-Methyl-2-pentanone | | ND | | ug/kg | 810 | 100 | 1 | |
| 2-Hexanone | | ND | | ug/kg | 810 | 96. | 1 | |
| 1,2-Dibromoethane | | ND | | ug/kg | 81 | 23. | 1 | |
| n-Butylbenzene | | ND | | ug/kg | 81 | 14. | 1 | |
| sec-Butylbenzene | | ND | | ug/kg | 81 | 12. | 1 | |
| tert-Butylbenzene | | ND | | ug/kg | 160 | 9.6 | 1 | |
| 1,2-Dibromo-3-chloropro | pane | ND | | ug/kg | 240 | 81. | 1 | |
| Isopropylbenzene | | ND | | ug/kg | 81 | 8.9 | 1 | |
| p-Isopropyltoluene | | ND | | ug/kg | 81 | 8.9 | 1 | |
| Naphthalene | | ND | | ug/kg | 320 | 53. | 1 | |
| n-Propylbenzene | | ND | | ug/kg | 81 | 14. | 1 | |
| 1,2,4-Trichlorobenzene | | ND | | ug/kg | 160 | 22. | 1 | |
| 1,3,5-Trimethylbenzene | | ND | | ug/kg | 160 | 16. | 1 | |
| 1,2,4-Trimethylbenzene | | ND | | ug/kg | 160 | 27. | 1 | |
| Methyl Acetate | | ND | | ug/kg | 320 | 77. | 1 | |
| Cyclohexane | | ND | | ug/kg | 810 | 44. | 1 | |
| Freon-113 | | ND | | ug/kg | 320 | 56. | 1 | |
| Methyl cyclohexane | | ND | | ug/kg | 320 | 49. | 1 | |

| Total TIC Compounds | 186 | J | ug/kg | 1 |
|---------------------|-----|---|-------|---|
| Unknown | 186 | J | ug/kg | 1 |



| | | | | Serial_No:01152114:33 | | | | |
|--|---------------|--------|------------|-----------------------|----------|-------------------------|-----------------|--|
| Project Name: | JCC/DOWCRAFT | | | | Lab N | umber: | L2101107 | |
| Project Number: | N30 | | | | Repor | t Date: | 01/15/21 | |
| | | SAMP | LE RESULTS | 6 | | | | |
| Lab ID: | L2101107-04 | | | | Date Co | ollected: | 01/08/21 10:50 | |
| Client ID: | MIHPT-9 | | | | Date Re | eceived: | 01/08/21 | |
| Sample Location: | Not Specified | | | | Field Pr | Field Prep: Not Specifi | | |
| Sample Depth: | | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
| Volatile Organics by GC/MS - Westborough Lab | | | | | | | | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|-----------------------|------------|----------------------------------|--|
| 1,2-Dichloroethane-d4 | 110 | 70-130 | |
| Toluene-d8 | 94 | 70-130 | |
| 4-Bromofluorobenzene | 106 | 70-130 | |
| Dibromofluoromethane | 99 | 70-130 | |



Project Name: JCC/DOWCRAFT

Project Number:

N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/14/21 18:33Analyst:MKS

| Parameter | Result | Qualifier Units | 6 | RL | MDL |
|--------------------------------|-----------------|-----------------|-------|--------|-------------|
| Volatile Organics by GC/MS - V | Vestborough Lab | for sample(s): | 01-04 | Batch: | WG1455314-5 |
| Methylene chloride | ND | ug/k | g | 250 | 110 |
| 1,1-Dichloroethane | ND | ug/k | g | 50 | 7.2 |
| Chloroform | ND | ug/k | g | 75 | 7.0 |
| Carbon tetrachloride | ND | ug/k | g | 50 | 12. |
| 1,2-Dichloropropane | ND | ug/k | g | 50 | 6.2 |
| Dibromochloromethane | ND | ug/k | g | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | ug/k | g | 50 | 13. |
| Tetrachloroethene | ND | ug/k | g | 25 | 9.8 |
| Chlorobenzene | ND | ug/k | g | 25 | 6.4 |
| Trichlorofluoromethane | ND | ug/k | g | 200 | 35. |
| 1,2-Dichloroethane | ND | ug/k | g | 50 | 13. |
| 1,1,1-Trichloroethane | ND | ug/k | g | 25 | 8.4 |
| Bromodichloromethane | ND | ug/k | g | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | ug/k | g | 50 | 14. |
| cis-1,3-Dichloropropene | ND | ug/k | g | 25 | 7.9 |
| Bromoform | ND | ug/k | g | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | ug/k | g | 25 | 8.3 |
| Benzene | ND | ug/k | g | 25 | 8.3 |
| Toluene | ND | ug/k | g | 50 | 27. |
| Ethylbenzene | ND | ug/k | g | 50 | 7.0 |
| Chloromethane | ND | ug/k | g | 200 | 47. |
| Bromomethane | ND | ug/k | g | 100 | 29. |
| Vinyl chloride | ND | ug/k | g | 50 | 17. |
| Chloroethane | ND | ug/k | g | 100 | 23. |
| 1,1-Dichloroethene | ND | ug/k | g | 50 | 12. |
| trans-1,2-Dichloroethene | ND | ug/k | g | 75 | 6.8 |
| Trichloroethene | ND | ug/k | g | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | ug/k | g | 100 | 7.2 |
| 1,3-Dichlorobenzene | ND | ug/k | g | 100 | 7.4 |



Project Name: JCC/DOWCRAFT

Project Number:

N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/14/21 18:33Analyst:MKS

| Notatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1455314-5 1.4-Dichlorobenzene ND ug/kg 100 8.6 Methyl tert butyl ether ND ug/kg 100 28. o-Xylene ND ug/kg 50 14. cis-1_2-Dichloroethene ND ug/kg 50 8.8 Styrene ND ug/kg 50 9.8 Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 240 2-Butanone ND ug/kg 500 240 2-Hexanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 50 14. Pi-Diphorno-shane ND ug/kg 50 14. Pi-Butylbenzene ND ug/kg 50 | Parameter | Result | Qualifier Uni | ts | RL | MDL |
|---|------------------------------|-------------------|------------------|-------|--------|-------------|
| 1.4-Dichlorobenzene ND ug/kg 100 8.6 Methyl tert butyl ether ND ug/kg 100 10. p/m-Xylene ND ug/kg 50 14. cis-1,2-Dichloroethene ND ug/kg 50 8.8 Styrene ND ug/kg 50 9.8 Dichlorodfiluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 240 2-Butanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 64. 2-Hexanone ND ug/kg 50 64. 2-Hexanone ND ug/kg 50 59. 1,2-Dibromo-s-chloropropane ND ug/kg 50 5.4 p-Isopropyltoluene ND ug/kg 50 5. | /olatile Organics by GC/MS - | · Westborough Lab | o for sample(s): | 01-04 | Batch: | WG1455314-5 |
| Methyl tert butyl ether ND ug/kg 100 10. p/m-Xylene ND ug/kg 50 14. o-Xylene ND ug/kg 50 8.8 Styrene ND ug/kg 50 8.8 Styrene ND ug/kg 50 8.8 Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 50 59. 1,2-Dibromoethane ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 p-Isopropyltourene ND ug/kg 50 5.4 p-I | 1,4-Dichlorobenzene | ND | ug/ | ′kg | 100 | 8.6 |
| p/m-Xylene ND ug/kg 100 28. o-Xylene ND ug/kg 50 14. cis-1,2-Dichloroethene ND ug/kg 50 8.8 Styrene ND ug/kg 50 9.8 Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 240 2-Butanone ND ug/kg 500 230 2-Butanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 54 sec-Butylbenzene ND ug/kg 50 5.4 spropylbenzene ND ug/kg 50 5.4 p-Isopropylbenzene ND ug/kg 50 5.4 n-Pr | Methyl tert butyl ether | ND | ug | ′kg | 100 | 10. |
| o-Xylene ND ug/kg 50 14. cis-1,2-Dichloroethene ND ug/kg 50 8.8 Styrene ND ug/kg 50 9.8 Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 64. 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 p-Isopropyltoluene ND ug/kg 50 5.4 p-Isopropyltoluene ND ug/kg 50 5.4 | p/m-Xylene | ND | ug | ′kg | 100 | 28. |
| cis-1,2-Dichloroethene ND ug/kg 50 8.8 Styrene ND ug/kg 50 9.8 Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 50 64. 2-Hexanone ND ug/kg 50 64. 2-Hexanone ND ug/kg 50 64. 2-Dibromoethane ND ug/kg 50 7.3 1,2-Dibromoethane ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 Naphthenzene ND ug/kg 50 5.4 Naphth | o-Xylene | ND | ug/ | ′kg | 50 | 14. |
| Styrene ND ug/kg 50 9.8 Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 50 64. 2-Hexanone ND ug/kg 50 64. 1,2-Dibromethane ND ug/kg 50 64. n-Butylbenzene ND ug/kg 50 64. sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2.4-Trichlorobenzene ND ug/kg 100 14. <t< td=""><td>cis-1,2-Dichloroethene</td><td>ND</td><td>ug/</td><td>′kg</td><td>50</td><td>8.8</td></t<> | cis-1,2-Dichloroethene | ND | ug/ | ′kg | 50 | 8.8 |
| Dichlorodifluoromethane ND ug/kg 500 46. Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 p-lsopropyltoluene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 | Styrene | ND | ug/ | ′kg | 50 | 9.8 |
| Acetone ND ug/kg 500 240 Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 200 <t< td=""><td>Dichlorodifluoromethane</td><td>ND</td><td>ug/</td><td>′kg</td><td>500</td><td>46.</td></t<> | Dichlorodifluoromethane | ND | ug/ | ′kg | 500 | 46. |
| Carbon disulfide ND ug/kg 500 230 2-Butanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 | Acetone | ND | ug | ′kg | 500 | 240 |
| 2-Butanone ND ug/kg 500 110 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 50 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 200 | Carbon disulfide | ND | ug | ′kg | 500 | 230 |
| 4-Methyl-2-pentanone ND ug/kg 500 64. 2-Hexanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 14. 1,3,4-Trichlorobenzene ND ug/kg 100 14. 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg | 2-Butanone | ND | ug/ | ′kg | 500 | 110 |
| 2-Hexanone ND ug/kg 500 59. 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 150 50. Isopropylbenzene ND ug/kg 50 5.4 p-lsopropylbonzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 50 8.6 1,2,4-Trimethylbenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 | 4-Methyl-2-pentanone | ND | ug | ′kg | 500 | 64. |
| 1,2-Dibromoethane ND ug/kg 50 14. n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 150 50. Isopropylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 p-lsopropylbenzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 14. 1,2,4-Trimethylbenzene ND ug/kg 100 14. 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 500 27. Freon-113 ND ug/kg | 2-Hexanone | ND | ug | ′kg | 500 | 59. |
| n-Butylbenzene ND ug/kg 50 8.4 sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 150 50. Isopropylbenzene ND ug/kg 50 5.4 p-lsopropyltoluene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 50 8.6 1,2,4-Trimethylbenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 35. | 1,2-Dibromoethane | ND | ug | ′kg | 50 | 14. |
| sec-Butylbenzene ND ug/kg 50 7.3 tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 150 50. Isopropylbenzene ND ug/kg 50 5.4 p-Isopropyltoluene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 5.4 n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trichlorobenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | n-Butylbenzene | ND | ug | ′kg | 50 | 8.4 |
| tert-Butylbenzene ND ug/kg 100 5.9 1,2-Dibromo-3-chloropropane ND ug/kg 150 50. Isopropylbenzene ND ug/kg 50 5.4 p-Isopropylbenzene ND ug/kg 50 5.4 Naphthalene ND ug/kg 200 32. n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | sec-Butylbenzene | ND | ug | ′kg | 50 | 7.3 |
| 1,2-Dibromo-3-chloropropane ND ug/kg 150 50. Isopropylbenzene ND ug/kg 50 5.4 p-Isopropyltoluene ND ug/kg 50 5.4 Naphthalene ND ug/kg 50 32. n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | tert-Butylbenzene | ND | ug | ′kg | 100 | 5.9 |
| Isopropylbenzene ND ug/kg 50 5.4 p-Isopropyltoluene ND ug/kg 50 5.4 Naphthalene ND ug/kg 200 32. n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | 1,2-Dibromo-3-chloropropane | ND | ug | ′kg | 150 | 50. |
| p-lsopropyltoluene ND ug/kg 50 5.4 Naphthalene ND ug/kg 200 32. n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | Isopropylbenzene | ND | ug | ′kg | 50 | 5.4 |
| Naphthalene ND ug/kg 200 32. n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | p-Isopropyltoluene | ND | ug | ′kg | 50 | 5.4 |
| n-Propylbenzene ND ug/kg 50 8.6 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | Naphthalene | ND | ug | ′kg | 200 | 32. |
| 1,2,4-Trichlorobenzene ND ug/kg 100 14. 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | n-Propylbenzene | ND | ug | ′kg | 50 | 8.6 |
| 1,3,5-Trimethylbenzene ND ug/kg 100 9.6 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | 1,2,4-Trichlorobenzene | ND | ug | ′kg | 100 | 14. |
| 1,2,4-Trimethylbenzene ND ug/kg 100 17. Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | 1,3,5-Trimethylbenzene | ND | ug | ′kg | 100 | 9.6 |
| Methyl Acetate ND ug/kg 200 48. Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | 1,2,4-Trimethylbenzene | ND | ug | ′kg | 100 | 17. |
| Cyclohexane ND ug/kg 500 27. Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | Methyl Acetate | ND | ug | ′kg | 200 | 48. |
| Freon-113 ND ug/kg 200 35. Methyl cyclohexane ND ug/kg 200 30. | Cyclohexane | ND | ug | ′kg | 500 | 27. |
| Methyl cyclohexane ND ug/kg 200 30. | Freon-113 | ND | ug | ′kg | 200 | 35. |
| | Methyl cyclohexane | ND | ug/ | ′kg | 200 | 30. |



Project Name:JCC/DOWCRAFTProject Number:N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/14/21 18:33Analyst:MKS

| Parameter | Result | Qualifier | Units | RL | MDL |
|------------------------------------|------------|------------|-------------|----------|-------------|
| Volatile Organics by GC/MS - Westb | orough Lab | for sample | e(s): 01-04 | Batch: W | /G1455314-5 |
| | | | | | |
| Tentatively Identified Compounds | | | | | |
| | | | | | |

| Total TIC Compounds | 118 | J | ug/kg |
|---------------------|-----|---|-------|
| Unknown | 118 | J | ug/kg |

| | | | Acceptance | |
|-----------------------|-----------|-----------|------------|--|
| Surrogate | %Recovery | Qualifier | Criteria | |
| | | | | |
| 1,2-Dichloroethane-d4 | 99 | | 70-130 | |
| Toluene-d8 | 92 | | 70-130 | |
| 4-Bromofluorobenzene | 102 | | 70-130 | |
| Dibromofluoromethane | 97 | | 70-130 | |



Project Name: JCC/DOWCRAFT

Project Number: N30 Lab Number: L2101107 **Report Date:** 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: Analyst: ΜV

01/15/21 07:25

| Parameter | Result | Qualifier Units | s RL | MDL | |
|------------------------------|-----------------|------------------|-----------|-------------|--|
| Volatile Organics by GC/MS - | Westborough Lab | o for sample(s): | 03 Batch: | WG1455458-5 | |
| Methylene chloride | ND | ug/k | g 250 | 110 | |
| 1,1-Dichloroethane | ND | ug/k | g 50 | 7.2 | |
| Chloroform | ND | ug/k | g 75 | 7.0 | |
| Carbon tetrachloride | ND | ug/k | g 50 | 12. | |
| 1,2-Dichloropropane | ND | ug/k | g 50 | 6.2 | |
| Dibromochloromethane | ND | ug/k | g 50 | 7.0 | |
| 1,1,2-Trichloroethane | ND | ug/k | g 50 | 13. | |
| Tetrachloroethene | ND | ug/k | g 25 | 9.8 | |
| Chlorobenzene | ND | ug/k | g 25 | 6.4 | |
| Trichlorofluoromethane | ND | ug/k | g 200 | 35. | |
| 1,2-Dichloroethane | ND | ug/k | g 50 | 13. | |
| 1,1,1-Trichloroethane | ND | ug/k | g 25 | 8.4 | |
| Bromodichloromethane | ND | ug/k | g 25 | 5.4 | |
| trans-1,3-Dichloropropene | ND | ug/k | g 50 | 14. | |
| cis-1,3-Dichloropropene | ND | ug/k | g 25 | 7.9 | |
| Bromoform | ND | ug/k | g 200 | 12. | |
| 1,1,2,2-Tetrachloroethane | ND | ug/k | g 25 | 8.3 | |
| Benzene | ND | ug/k | g 25 | 8.3 | |
| Toluene | ND | ug/k | g 50 | 27. | |
| Ethylbenzene | ND | ug/k | g 50 | 7.0 | |
| Chloromethane | ND | ug/k | g 200 | 47. | |
| Bromomethane | ND | ug/k | g 100 | 29. | |
| Vinyl chloride | ND | ug/k | g 50 | 17. | |
| Chloroethane | ND | ug/k | g 100 | 23. | |
| 1,1-Dichloroethene | ND | ug/k | g 50 | 12. | |
| trans-1,2-Dichloroethene | ND | ug/k | g 75 | 6.8 | |
| Trichloroethene | ND | ug/k | g 25 | 6.8 | |
| 1,2-Dichlorobenzene | ND | ug/k | g 100 | 7.2 | |
| 1,3-Dichlorobenzene | ND | ug/k | g 100 | 7.4 | |



Project Name: JCC/DOWCRAFT

Project Number: N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/15/21 07:25Analyst:MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|-----------------------------|-------------------|-----------|-----------|--------|-------------|
| Volatile Organics by GC/MS | - Westborough Lab | for samp | le(s): 03 | Batch: | WG1455458-5 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| n-Butylbenzene | ND | | ug/kg | 50 | 8.4 |
| sec-Butylbenzene | ND | | ug/kg | 50 | 7.3 |
| tert-Butylbenzene | ND | | ug/kg | 100 | 5.9 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| p-Isopropyltoluene | ND | | ug/kg | 50 | 5.4 |
| Naphthalene | 36 | J | ug/kg | 200 | 32. |
| n-Propylbenzene | ND | | ug/kg | 50 | 8.6 |
| 1,2,4-Trichlorobenzene | 14 | J | ug/kg | 100 | 14. |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 100 | 9.6 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 100 | 17. |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |
| | | | | | |



Project Name:JCC/DOWCRAFTProject Number:N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/15/21 07:25Analyst:MV

| Parameter | Result | Qualifier | Units | RL | MDL | |
|------------------------------------|------------|------------|----------|--------|-------------|--|
| Volatile Organics by GC/MS - Westh | orough Lab | for sample | e(s): 03 | Batch: | WG1455458-5 | |
| | | | | | | |

| Tentatively Identified Compounds | | | | |
|----------------------------------|-----|---|-------|--|
| Total TIC Compounds | 198 | J | ug/kg | |
| Unknown | 198 | J | ug/kg | |

| | | Acceptance |
|-----------------------|------------------|--------------|
| Surrogate | %Recovery Qualit | ier Criteria |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 92 | 70-130 |
| Dibromofluoromethane | 98 | 70-130 |
| | | |



Project Name: JCC/DOWCRAFT

Project Number: N30 Lab Number: L2101107 **Report Date:** 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: Analyst: ΜV

01/15/21 07:25

| Parameter | Result | Qualifier | Units | 5 | RL | MDL | |
|------------------------------|-----------------|-----------|--------|-------|--------|-------------|--|
| Volatile Organics by GC/MS - | Westborough Lab | for samp | le(s): | 01-02 | Batch: | WG1455459-5 | |
| Methylene chloride | ND | | ug/k | g | 5.0 | 2.3 | |
| 1,1-Dichloroethane | ND | | ug/k | 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 Name: JCC/DOWCRAFT

Project Number: N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/15/21 07:25Analyst:MV

| Parameter | Result | Qualifier | Units | RL | MDL | |
|------------------------------|-----------------|-----------|-------------|-----------|-------------|--|
| Volatile Organics by GC/MS - | Westborough Lab | for samp | le(s): 01-0 | 02 Batch: | WG1455459-5 | |
| 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 | |
| 1,2-Dibromoethane | ND | | ug/kg | 1.0 | 0.28 | |
| n-Butylbenzene | ND | | ug/kg | 1.0 | 0.17 | |
| sec-Butylbenzene | ND | | ug/kg | 1.0 | 0.15 | |
| tert-Butylbenzene | ND | | ug/kg | 2.0 | 0.12 | |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.0 | 1.0 | |
| Isopropylbenzene | ND | | ug/kg | 1.0 | 0.11 | |
| p-Isopropyltoluene | ND | | ug/kg | 1.0 | 0.11 | |
| Naphthalene | 0.73 | J | ug/kg | 4.0 | 0.65 | |
| n-Propylbenzene | ND | | ug/kg | 1.0 | 0.17 | |
| 1,2,4-Trichlorobenzene | 0.27 | J | ug/kg | 2.0 | 0.27 | |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 2.0 | 0.19 | |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 2.0 | 0.33 | |
| Methyl Acetate | ND | | ug/kg | 4.0 | 0.95 | |
| Cyclohexane | ND | | ug/kg | 10 | 0.54 | |
| Freon-113 | ND | | ug/kg | 4.0 | 0.69 | |
| Methyl cyclohexane | ND | | ug/kg | 4.0 | 0.60 | |
| | | | | | | |



Project Name:JCC/DOWCRAFTProject Number:N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method:1,8260CAnalytical Date:01/15/21 07:25Analyst:MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|------------------------------------|------------|------------|-------------|--------|-------------|
| Volatile Organics by GC/MS - Westb | orough Lab | for sample | e(s): 01-02 | Batch: | WG1455459-5 |
| | | | | | |
| Tentatively Identified Compounds | | | | | |

| Total TIC Compounds | 3.95 | J | ug/kg |
|---------------------|------|---|-------|
| Unknown | 3.95 | J | ug/kg |

| Surrogate | %Recovery | Qualifier | Criteria | | |
|-----------------------|-----------|-----------|----------|--|--|
| | | | | | |
| 1,2-Dichloroethane-d4 | 98 | | 70-130 | | |
| Toluene-d8 | 97 | | 70-130 | | |
| 4-Bromofluorobenzene | 92 | | 70-130 | | |
| Dibromofluoromethane | 98 | | 70-130 | | |



Lab Control Sample Analysis Batch Quality Control

Project Number: N30 Lab Number: L2101107

Report Date: 01/15/21

| | LCS | | LCSD | | %Recovery | | | RPD | |
|------------------------------|----------------------------|------------|--------------|-------------|-------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | |
| Volatile Organics by GC/MS - | Westborough Lab Associated | sample(s): | 01-04 Batch: | WG1455314-3 | WG1455314-4 | | | | |
| Methylene chloride | 110 | | 108 | | 70-130 | 2 | | 30 | |
| 1,1-Dichloroethane | 119 | | 118 | | 70-130 | 1 | | 30 | |
| Chloroform | 110 | | 110 | | 70-130 | 0 | | 30 | |
| Carbon tetrachloride | 118 | | 115 | | 70-130 | 3 | | 30 | |
| 1,2-Dichloropropane | 116 | | 114 | | 70-130 | 2 | | 30 | |
| Dibromochloromethane | 86 | | 85 | | 70-130 | 1 | | 30 | |
| 1,1,2-Trichloroethane | 96 | | 96 | | 70-130 | 0 | | 30 | |
| Tetrachloroethene | 106 | | 103 | | 70-130 | 3 | | 30 | |
| Chlorobenzene | 98 | | 96 | | 70-130 | 2 | | 30 | |
| Trichlorofluoromethane | 121 | | 117 | | 70-139 | 3 | | 30 | |
| 1,2-Dichloroethane | 111 | | 111 | | 70-130 | 0 | | 30 | |
| 1,1,1-Trichloroethane | 123 | | 120 | | 70-130 | 2 | | 30 | |
| Bromodichloromethane | 114 | | 114 | | 70-130 | 0 | | 30 | |
| trans-1,3-Dichloropropene | 96 | | 95 | | 70-130 | 1 | | 30 | |
| cis-1,3-Dichloropropene | 105 | | 104 | | 70-130 | 1 | | 30 | |
| Bromoform | 80 | | 80 | | 70-130 | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | 92 | | 91 | | 70-130 | 1 | | 30 | |
| Benzene | 116 | | 114 | | 70-130 | 2 | | 30 | |
| Toluene | 100 | | 98 | | 70-130 | 2 | | 30 | |
| Ethylbenzene | 101 | | 100 | | 70-130 | 1 | | 30 | |
| Chloromethane | 121 | | 117 | | 52-130 | 3 | | 30 | |
| Bromomethane | 111 | | 110 | | 57-147 | 1 | | 30 | |
| Vinyl chloride | 125 | | 123 | | 67-130 | 2 | | 30 | |


Project Number: N30 Lab Number: L2101107 01/15/21

| | LCS | | LCSD | | %Recovery | | | RPD |
|-----------------------------|------------------------------|------------|--------------|-------------|-------------|-----|------|--------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits |
| Volatile Organics by GC/MS | - Westborough Lab Associated | sample(s): | 01-04 Batch: | WG1455314-3 | WG1455314-4 | | | |
| Chloroethane | 135 | | 135 | | 50-151 | 0 | | 30 |
| 1,1-Dichloroethene | 124 | | 120 | | 65-135 | 3 | | 30 |
| trans-1,2-Dichloroethene | 119 | | 116 | | 70-130 | 3 | | 30 |
| Trichloroethene | 121 | | 119 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | 92 | | 91 | | 70-130 | 1 | | 30 |
| 1,3-Dichlorobenzene | 95 | | 94 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 92 | | 91 | | 70-130 | 1 | | 30 |
| Methyl tert butyl ether | 108 | | 107 | | 66-130 | 1 | | 30 |
| p/m-Xylene | 102 | | 100 | | 70-130 | 2 | | 30 |
| o-Xylene | 98 | | 98 | | 70-130 | 0 | | 30 |
| cis-1,2-Dichloroethene | 114 | | 112 | | 70-130 | 2 | | 30 |
| Styrene | 98 | | 98 | | 70-130 | 0 | | 30 |
| Dichlorodifluoromethane | 120 | | 116 | | 30-146 | 3 | | 30 |
| Acetone | 101 | | 101 | | 54-140 | 0 | | 30 |
| Carbon disulfide | 108 | | 106 | | 59-130 | 2 | | 30 |
| 2-Butanone | 112 | | 109 | | 70-130 | 3 | | 30 |
| 4-Methyl-2-pentanone | 95 | | 91 | | 70-130 | 4 | | 30 |
| 2-Hexanone | 86 | | 85 | | 70-130 | 1 | | 30 |
| 1,2-Dibromoethane | 87 | | 86 | | 70-130 | 1 | | 30 |
| n-Butylbenzene | 102 | | 102 | | 70-130 | 0 | | 30 |
| sec-Butylbenzene | 99 | | 98 | | 70-130 | 1 | | 30 |
| tert-Butylbenzene | 97 | | 96 | | 70-130 | 1 | | 30 |
| 1,2-Dibromo-3-chloropropane | 78 | | 76 | | 68-130 | 3 | | 30 |



Project Number: N30

Lab Number: L2101107 01/15/21

| | LCS | | LCSD | | %Recovery | | | RPD | |
|--|---------------|------------|-------------|---------------|---------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recover | 'Y Qual | Limits | RPD | Qual | Limits | |
| Volatile Organics by GC/MS - Westborough L | ab Associated | sample(s): | 01-04 Batch | : WG1455314-3 | 3 WG1455314-4 | | | | |
| Isopropylbenzene | 97 | | 97 | | 70-130 | 0 | | 30 | |
| p-Isopropyltoluene | 99 | | 98 | | 70-130 | 1 | | 30 | |
| Naphthalene | 93 | | 92 | | 70-130 | 1 | | 30 | |
| n-Propylbenzene | 98 | | 98 | | 70-130 | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | 97 | | 96 | | 70-130 | 1 | | 30 | |
| 1,3,5-Trimethylbenzene | 96 | | 95 | | 70-130 | 1 | | 30 | |
| 1,2,4-Trimethylbenzene | 95 | | 95 | | 70-130 | 0 | | 30 | |
| Methyl Acetate | 110 | | 107 | | 51-146 | 3 | | 30 | |
| Cyclohexane | 129 | | 124 | | 59-142 | 4 | | 30 | |
| Freon-113 | 126 | | 122 | | 50-139 | 3 | | 30 | |
| Methyl cyclohexane | 126 | | 121 | | 70-130 | 4 | | 30 | |

| | LCS | LCSD | Acceptance |
|-----------------------|---------------|-------------------|------------|
| Surrogate | %Recovery Qua | al %Recovery Qual | Criteria |
| 1,2-Dichloroethane-d4 | 100 | 99 | 70-130 |
| Toluene-d8 | 91 | 90 | 70-130 |
| 4-Bromofluorobenzene | 96 | 97 | 70-130 |
| Dibromofluoromethane | 100 | 98 | 70-130 |



Project Number: N30 Lab Number: L2101107 01/15/21

| | LCS | | LCSD | | %Recovery | | RPD | |
|---------------------------------------|--------------------|---------------|-------------|-----------|-------------|-----|-------------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual Limits | |
| Volatile Organics by GC/MS - Westboro | ugh Lab Associated | sample(s): 03 | 3 Batch: WG | 1455458-3 | WG1455458-4 | | | |
| Methylene chloride | 91 | | 91 | | 70-130 | 0 | 30 | |
| 1,1-Dichloroethane | 98 | | 97 | | 70-130 | 1 | 30 | |
| Chloroform | 95 | | 95 | | 70-130 | 0 | 30 | |
| Carbon tetrachloride | 96 | | 97 | | 70-130 | 1 | 30 | |
| 1,2-Dichloropropane | 97 | | 97 | | 70-130 | 0 | 30 | |
| Dibromochloromethane | 97 | | 97 | | 70-130 | 0 | 30 | |
| 1,1,2-Trichloroethane | 91 | | 91 | | 70-130 | 0 | 30 | |
| Tetrachloroethene | 102 | | 101 | | 70-130 | 1 | 30 | |
| Chlorobenzene | 97 | | 98 | | 70-130 | 1 | 30 | |
| Trichlorofluoromethane | 100 | | 98 | | 70-139 | 2 | 30 | |
| 1,2-Dichloroethane | 105 | | 103 | | 70-130 | 2 | 30 | |
| 1,1,1-Trichloroethane | 93 | | 93 | | 70-130 | 0 | 30 | |
| Bromodichloromethane | 90 | | 90 | | 70-130 | 0 | 30 | |
| trans-1,3-Dichloropropene | 102 | | 100 | | 70-130 | 2 | 30 | |
| cis-1,3-Dichloropropene | 103 | | 104 | | 70-130 | 1 | 30 | |
| Bromoform | 91 | | 93 | | 70-130 | 2 | 30 | |
| 1,1,2,2-Tetrachloroethane | 93 | | 92 | | 70-130 | 1 | 30 | |
| Benzene | 98 | | 98 | | 70-130 | 0 | 30 | |
| Toluene | 95 | | 94 | | 70-130 | 1 | 30 | |
| Ethylbenzene | 94 | | 94 | | 70-130 | 0 | 30 | |
| Chloromethane | 87 | | 83 | | 52-130 | 5 | 30 | |
| Bromomethane | 93 | | 92 | | 57-147 | 1 | 30 | |
| Vinyl chloride | 93 | | 91 | | 67-130 | 2 | 30 | |



Project Number: N30 Lab Number: L2101107 01/15/21

| | LCS | | LCSD | | %Recovery | | F | RPD |
|-----------------------------|------------------------------|-----------------|-------------|-----------|-------------|-----|--------|-------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual L | imits |
| Volatile Organics by GC/MS | - Westborough Lab Associated | l sample(s): 03 | B Batch: WG | 1455458-3 | WG1455458-4 | | | |
| Chloroethane | 103 | | 102 | | 50-151 | 1 | | 30 |
| 1,1-Dichloroethene | 93 | | 92 | | 65-135 | 1 | | 30 |
| trans-1,2-Dichloroethene | 97 | | 97 | | 70-130 | 0 | | 30 |
| Trichloroethene | 94 | | 92 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | 98 | | 100 | | 70-130 | 2 | | 30 |
| 1,3-Dichlorobenzene | 99 | | 100 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 99 | | 99 | | 70-130 | 0 | | 30 |
| Methyl tert butyl ether | 103 | | 102 | | 66-130 | 1 | | 30 |
| p/m-Xylene | 99 | | 98 | | 70-130 | 1 | | 30 |
| o-Xylene | 99 | | 100 | | 70-130 | 1 | | 30 |
| cis-1,2-Dichloroethene | 96 | | 96 | | 70-130 | 0 | | 30 |
| Styrene | 99 | | 99 | | 70-130 | 0 | | 30 |
| Dichlorodifluoromethane | 84 | | 81 | | 30-146 | 4 | | 30 |
| Acetone | 106 | | 99 | | 54-140 | 7 | | 30 |
| Carbon disulfide | 89 | | 89 | | 59-130 | 0 | | 30 |
| 2-Butanone | 88 | | 88 | | 70-130 | 0 | | 30 |
| 4-Methyl-2-pentanone | 97 | | 93 | | 70-130 | 4 | | 30 |
| 2-Hexanone | 94 | | 91 | | 70-130 | 3 | | 30 |
| 1,2-Dibromoethane | 105 | | 106 | | 70-130 | 1 | | 30 |
| n-Butylbenzene | 95 | | 95 | | 70-130 | 0 | | 30 |
| sec-Butylbenzene | 94 | | 95 | | 70-130 | 1 | | 30 |
| tert-Butylbenzene | 94 | | 96 | | 70-130 | 2 | | 30 |
| 1,2-Dibromo-3-chloropropane | 95 | | 94 | | 68-130 | 1 | | 30 |
| | | | | | | | | |



Project Name: JCC/DOWCRAFT

Project Number: N30

Lab Number: L2101107 01/15/21

| | LCS | | LCSD | | %Recovery | | | RPD | |
|--|---------------|--------------|-------------|-----------|-------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | |
| Volatile Organics by GC/MS - Westborough L | ab Associated | sample(s): 0 | 3 Batch: WG | 1455458-3 | WG1455458-4 | | | | |
| Isopropylbenzene | 94 | | 96 | | 70-130 | 2 | | 30 | |
| p-Isopropyltoluene | 96 | | 97 | | 70-130 | 1 | | 30 | |
| Naphthalene | 98 | | 98 | | 70-130 | 0 | | 30 | |
| n-Propylbenzene | 95 | | 95 | | 70-130 | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | 103 | | 104 | | 70-130 | 1 | | 30 | |
| 1,3,5-Trimethylbenzene | 95 | | 96 | | 70-130 | 1 | | 30 | |
| 1,2,4-Trimethylbenzene | 96 | | 98 | | 70-130 | 2 | | 30 | |
| Methyl Acetate | 101 | | 99 | | 51-146 | 2 | | 30 | |
| Cyclohexane | 84 | | 84 | | 59-142 | 0 | | 30 | |
| Freon-113 | 96 | | 96 | | 50-139 | 0 | | 30 | |
| Methyl cyclohexane | 89 | | 89 | | 70-130 | 0 | | 30 | |

| | LCS | LCSD | Acceptance | |
|-----------------------|-------------|----------------|---------------|--|
| Surrogate | %Recovery G | Qual %Recovery | Qual Criteria | |
| 1,2-Dichloroethane-d4 | 101 | 99 | 70-130 | |
| Toluene-d8 | 99 | 97 | 70-130 | |
| 4-Bromofluorobenzene | 97 | 98 | 70-130 | |
| Dibromofluoromethane | 101 | 102 | 70-130 | |



Project Number: N30 Lab Number: L2101107

| Parameter | 9 | LCS %Recovery | Qual | LCSD %Recov | ery Qual | %Recovery Limits | RPD | Qual | RPD Limits | |
|----------------------------|-------------------|------------------|------------|----------------|----------------|---------------------|-----|------|---------------|--|
| Volatile Organics by GC/MS | - Westborough Lab | Associated | sample(s): | 01-02 Bato | :h: WG1455459- | 3 WG1455459-4 | | | | |
| | | | | | | | | | | |
| Methylene chloride | | 91 | | 91 | | 70-130 | 0 | | 30 | |
| 1,1-Dichloroethane | | 98 | | 97 | | 70-130 | 1 | | 30 | |
| Chloroform | | 95 | | 95 | | 70-130 | 0 | | 30 | |
| Carbon tetrachloride | | 96 | | 97 | | 70-130 | 1 | | 30 | |
| 1,2-Dichloropropane | | 97 | | 97 | | 70-130 | 0 | | 30 | |
| Dibromochloromethane | | 97 | | 97 | | 70-130 | 0 | | 30 | |
| 1,1,2-Trichloroethane | | 91 | | 91 | | 70-130 | 0 | | 30 | |
| Tetrachloroethene | | 102 | | 101 | | 70-130 | 1 | | 30 | |
| Chlorobenzene | | 97 | | 98 | | 70-130 | 1 | | 30 | |
| Trichlorofluoromethane | | 100 | | 98 | | 70-139 | 2 | | 30 | |
| 1,2-Dichloroethane | | 105 | | 103 | | 70-130 | 2 | | 30 | |
| 1,1,1-Trichloroethane | | 93 | | 93 | | 70-130 | 0 | | 30 | |
| Bromodichloromethane | | 90 | | 90 | | 70-130 | 0 | | 30 | |
| trans-1,3-Dichloropropene | | 102 | | 100 | | 70-130 | 2 | | 30 | |
| cis-1,3-Dichloropropene | | 103 | | 104 | | 70-130 | 1 | | 30 | |
| Bromoform | | 91 | | 93 | | 70-130 | 2 | | 30 | |
| 1,1,2,2-Tetrachloroethane | | 93 | | 92 | | 70-130 | 1 | | 30 | |
| Benzene | | 98 | | 98 | | 70-130 | 0 | | 30 | |
| Toluene | | 95 | | 94 | | 70-130 | 1 | | 30 | |
| Ethylbenzene | | 94 | | 94 | | 70-130 | 0 | | 30 | |
| Chloromethane | | 87 | | 83 | | 52-130 | 5 | | 30 | |
| Bromomethane | | 93 | | 92 | | 57-147 | 1 | | 30 | |
| Vinyl chloride | | 93 | | 91 | | 67-130 | 2 | | 30 | |
| | | | | | | | | | | |



Project Number: N30 Lab Number: L2101107

| | LCS | | LCSD | | %Recovery | | | RPD |
|-----------------------------|--------------------------------|-------------|-------------|-------------|-------------|-----|------|--------|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits |
| Volatile Organics by GC/MS | - Westborough Lab Associated s | ample(s): 0 | 1-02 Batch: | WG1455459-3 | WG1455459-4 | | | |
| Chloroethane | 103 | | 102 | | 50-151 | 1 | | 30 |
| 1,1-Dichloroethene | 93 | | 92 | | 65-135 | 1 | | 30 |
| trans-1,2-Dichloroethene | 97 | | 97 | | 70-130 | 0 | | 30 |
| Trichloroethene | 94 | | 92 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | 98 | | 100 | | 70-130 | 2 | | 30 |
| 1,3-Dichlorobenzene | 99 | | 100 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 99 | | 99 | | 70-130 | 0 | | 30 |
| Methyl tert butyl ether | 103 | | 102 | | 66-130 | 1 | | 30 |
| p/m-Xylene | 99 | | 98 | | 70-130 | 1 | | 30 |
| o-Xylene | 99 | | 100 | | 70-130 | 1 | | 30 |
| cis-1,2-Dichloroethene | 96 | | 96 | | 70-130 | 0 | | 30 |
| Styrene | 99 | | 99 | | 70-130 | 0 | | 30 |
| Dichlorodifluoromethane | 84 | | 81 | | 30-146 | 4 | | 30 |
| Acetone | 106 | | 99 | | 54-140 | 7 | | 30 |
| Carbon disulfide | 89 | | 89 | | 59-130 | 0 | | 30 |
| 2-Butanone | 88 | | 88 | | 70-130 | 0 | | 30 |
| 4-Methyl-2-pentanone | 97 | | 93 | | 70-130 | 4 | | 30 |
| 2-Hexanone | 94 | | 91 | | 70-130 | 3 | | 30 |
| 1,2-Dibromoethane | 105 | | 106 | | 70-130 | 1 | | 30 |
| n-Butylbenzene | 95 | | 95 | | 70-130 | 0 | | 30 |
| sec-Butylbenzene | 94 | | 95 | | 70-130 | 1 | | 30 |
| tert-Butylbenzene | 94 | | 96 | | 70-130 | 2 | | 30 |
| 1,2-Dibromo-3-chloropropane | 95 | | 94 | | 68-130 | 1 | | 30 |



Lab Control Sample Analysis

Batch Quality Control

Project Name: JCC/DOWCRAFT

Project Number: N30

Lab Number: L2101107 Report Date: 01/15/21

LCSD LCS %Recovery RPD %Recovery Parameter %Recovery Limits RPD Limits Qual Qual Qual Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1455459-3 WG1455459-4 Isopropylbenzene 94 96 70-130 2 30 p-Isopropyltoluene 97 96 70-130 30 1 Naphthalene 98 98 70-130 0 30 n-Propylbenzene 95 95 70-130 0 30 1,2,4-Trichlorobenzene 103 104 70-130 30 1 1,3,5-Trimethylbenzene 95 96 70-130 30 1 1,2,4-Trimethylbenzene 96 98 70-130 2 30 Methyl Acetate 51-146 30 101 99 2 30 Cyclohexane 84 84 59-142 0 Freon-113 96 96 50-139 0 30 Methyl cyclohexane 89 89 70-130 0 30

| | LCS | LCSD | Acceptance |
|-----------------------|-----------|----------------|---------------|
| Surrogate | %Recovery | Qual %Recovery | Qual Criteria |
| 1,2-Dichloroethane-d4 | 101 | 99 | 70-130 |
| Toluene-d8 | 99 | 97 | 70-130 |
| 4-Bromofluorobenzene | 97 | 97 | 70-130 |
| Dibromofluoromethane | 101 | 102 | 70-130 |



SEMIVOLATILES



| | | | Serial_No: | 01152114:33 |
|--------------------|----------------|----------------|--------------------|----------------|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 |
| Project Number: | N30 | | Report Date: | 01/15/21 |
| | | SAMPLE RESULTS | | |
| Lab ID: | L2101107-03 | | Date Collected: | 01/08/21 10:34 |
| Client ID: | MIHPT-4 | | Date Received: | 01/08/21 |
| Sample Location: | Not Specified | | Field Prep: | Not Specified |
| Sample Depth: | | | | |
| Matrix: | Soil | | Extraction Method: | EPA 3546 |
| Analytical Method: | 1,8270D | | Extraction Date: | 01/10/21 23:34 |
| Analytical Date: | 01/15/21 11:28 | | | |
| Analyst: | IM | | | |
| Percent Solids: | 79% | | | |
| | | | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------|-------------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS | - Westborough Lab | | | | | |
| Acenaphthene | ND | | ug/kg | 160 | 21. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 120 | 23. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 190 | 28. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 210 | 20. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 210 | 55. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 210 | 41. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 210 | 36. | 1 |
| Fluoranthene | ND | | ug/kg | 120 | 24. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 210 | 22. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 250 | 35. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 220 | 21. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 210 | 30. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 590 | 190 | 1 |
| Hexachloroethane | ND | | ug/kg | 160 | 34. | 1 |
| Isophorone | ND | | ug/kg | 190 | 27. | 1 |
| Naphthalene | ND | | ug/kg | 210 | 25. | 1 |
| Nitrobenzene | ND | | ug/kg | 190 | 31. | 1 |
| NDPA/DPA | ND | | ug/kg | 160 | 24. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 210 | 32. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 210 | 72. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 210 | 52. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 210 | 39. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 210 | 70. | 1 |
| Diethyl phthalate | ND | | ug/kg | 210 | 19. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 210 | 43. | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 120 | 23. | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 160 | 50. | 1 |
| | | | | | | |



| | | Serial_No:01152114:3 | | | | | |
|---|---|----------------------|--|---|--|--|--|
| Project Name: | JCC/DOWCRAFT | | Lab Number: | L2101107 | | | |
| Project Number: | N30 | SAMPLE RESULTS | Report Date: | 01/15/21 | | | |
| Lab ID: Client ID: Sample Location: | L2101107-03 MIHPT-4 Not Specified | | Date Collected: Date Received: Field Prep: | 01/08/21 10:34 01/08/21 Not Specified | | | |

Sample Depth:

| Parameter | Result | Qualifier Units | RL | MDL | Dilution Factor | |
|----------------------------------|-----------------|-----------------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - | Westborough Lab | | | | | |
| Benzo(b)fluoranthene | ND | ug/kg | 120 | 35. | 1 | |
| Benzo(k)fluoranthene | ND | ug/kg | 120 | 33. | 1 | |
| Chrysene | ND | ug/kg | 120 | 22. | 1 | |
| Acenaphthylene | ND | ug/kg | 160 | 32. | 1 | |
| Anthracene | ND | ug/kg | 120 | 40. | 1 | |
| Benzo(ghi)perylene | ND | ug/kg | 160 | 24. | 1 | |
| Fluorene | ND | ug/kg | 210 | 20. | 1 | |
| Phenanthrene | ND | ug/kg | 120 | 25. | 1 | |
| Dibenzo(a,h)anthracene | ND | ug/kg | 120 | 24. | 1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 160 | 29. | 1 | |
| Pyrene | ND | ug/kg | 120 | 20. | 1 | |
| Biphenyl | ND | ug/kg | 470 | 48. | 1 | |
| 4-Chloroaniline | ND | ug/kg | 210 | 38. | 1 | |
| 2-Nitroaniline | ND | ug/kg | 210 | 40. | 1 | |
| 3-Nitroaniline | ND | ug/kg | 210 | 39. | 1 | |
| 4-Nitroaniline | ND | ug/kg | 210 | 86. | 1 | |
| Dibenzofuran | ND | ug/kg | 210 | 20. | 1 | |
| 2-Methylnaphthalene | ND | ug/kg | 250 | 25. | 1 | |
| 1,2,4,5-Tetrachlorobenzene | ND | ug/kg | 210 | 22. | 1 | |
| Acetophenone | ND | ug/kg | 210 | 26. | 1 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 120 | 39. | 1 | |
| p-Chloro-m-cresol | ND | ug/kg | 210 | 31. | 1 | |
| 2-Chlorophenol | ND | ug/kg | 210 | 24. | 1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 190 | 33. | 1 | |
| 2,4-Dimethylphenol | ND | ug/kg | 210 | 68. | 1 | |
| 2-Nitrophenol | ND | ug/kg | 450 | 78. | 1 | |
| 4-Nitrophenol | ND | ug/kg | 290 | 84. | 1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 990 | 96. | 1 | |
| 4,6-Dinitro-o-cresol | ND | ug/kg | 540 | 99. | 1 | |
| Pentachlorophenol | ND | ug/kg | 160 | 46. | 1 | |
| Phenol | ND | ug/kg | 210 | 31. | 1 | |
| 2-Methylphenol | ND | ug/kg | 210 | 32. | 1 | |
| 3-Methylphenol/4-Methylphenol | ND | ug/kg | 300 | 32. | 1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 210 | 40. | 1 | |
| Carbazole | ND | ug/kg | 210 | 20. | 1 | |
| Atrazine | ND | ug/kg | 160 | 72. | 1 | |
| Benzaldehyde | ND | ug/kg | 270 | 56. | 1 | |



| Serial_No:01152114:33 | | | | | | p:01152114:33 | |
|--------------------------|------------------------|-----------|-----------|------------|-------------|---------------|----------------------|
| Project Name: | JCC/DOWCRAFT | | | | Lab Num | ber: | L2101107 |
| Project Number: | N30 | | | | Report D | ate: | 01/15/21 |
| SAMPLE RESULTS | | | | S | | | |
| Lab ID: | L2101107-03 | | | | Date Colle | cted: | 01/08/21 10:34 |
| Client ID: | MIHPT-4 | | | | Date Rece | ived: | 01/08/21 |
| Sample Location: | Not Specified | | | | Field Prep: | | Not Specified |
| Sample Depth: | | | | | | | |
| Parameter | | Result | Qualifier | Units | RL | MDL | Dilution Factor |
| Semivolatile Orgar | nics by GC/MS - Westbo | rough Lab | | | | | |
| Caprolactam | | ND | | ug/kg | 210 | 63. | 1 |
| 2,3,4,6-Tetrachlorophenc | bl | ND | | ug/kg | 210 | 42. | 1 |
| Tentatively Identified C | Compounds | | | | | | |
| No Tentatively Identifie | ed Compounds | ND |) | ug/k | g | | 1 |
| Surrogate | | | | % Recovery | Qualifier | Ac | ceptance Criteria |
| 2-Fluorophenol | | | | 70 | | | 25-120 |
| Phenol-d6 | | | | 69 | | | 10-120 |
| Nitrobenzene-d5 | | | | 70 | | | 23-120 |
| 2-Fluorobiphenyl | | | | 63 | | | 30-120 |

68

57

2,4,6-Tribromophenol 4-Terphenyl-d14



10-136

18-120

Project Name: JCC/DOWCRAFT

N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: Analyst:

Project Number:

1,8270D 01/13/21 12:33 IM Extraction Method: EPA 3546 Extraction Date: 01/10/21 01:02

| Parameter | Result | Qualifier | Units | | RL | MDL |
|-------------------------------|-----------------|-------------|-----------|----|--------|-------------|
| Semivolatile Organics by GC/M | S - Westborough | h Lab for s | ample(s): | 03 | Batch: | WG1454194-1 |
| Acenaphthene | ND | | ug/kg | | 130 | 17. |
| Hexachlorobenzene | ND | | ug/kg | | 100 | 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 | | 100 | 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 | | 100 | 19. |
| Benzo(a)pyrene | ND | | ug/kg | | 130 | 40. |
| Benzo(b)fluoranthene | ND | | ug/kg | | 100 | 28. |



Project Name: JCC/DOWCRAFT

N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date: Analyst:

Project Number:

1,8270D 01/13/21 12:33 IM Extraction Method: EPA 3546 Extraction Date: 01/10/21 01:02

| Parameter | Result | Qualifier | Units | | RL | MDL |
|--------------------------------|-----------------|-----------|------------|----|--------|-------------|
| Semivolatile Organics by GC/MS | S - Westborough | Lab for s | sample(s): | 03 | Batch: | WG1454194-1 |
| Benzo(k)fluoranthene | ND | | ug/kg | | 100 | 26. |
| Chrysene | ND | | ug/kg | | 100 | 17. |
| Acenaphthylene | ND | | ug/kg | | 130 | 26. |
| Anthracene | ND | | ug/kg | | 100 | 32. |
| Benzo(ghi)perylene | ND | | ug/kg | | 130 | 20. |
| Fluorene | ND | | ug/kg | | 160 | 16. |
| Phenanthrene | ND | | ug/kg | | 100 | 20. |
| Dibenzo(a,h)anthracene | ND | | ug/kg | | 100 | 19. |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | | 130 | 23. |
| Pyrene | ND | | ug/kg | | 100 | 16. |
| Biphenyl | ND | | ug/kg | | 380 | 38. |
| 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 | 69. |
| 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 | | 100 | 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. |



Project Name:JCC/DOWCRAFTProject Number:N30

 Lab Number:
 L2101107

 Report Date:
 01/15/21

Method Blank Analysis Batch Quality Control

| Analytical Method: | 1,8270D |
|--------------------|----------------|
| Analytical Date: | 01/13/21 12:33 |
| Analyst: | IM |

Extraction Method: EPA 3546 Extraction Date: 01/10/21 01:02

| Parameter | Result | Qualifier | Units | | RL | MDL | |
|------------------------------------|-------------|-----------|-----------|----|--------|-------------|--|
| Semivolatile Organics by GC/MS - \ | Nestborough | Lab for s | ample(s): | 03 | Batch: | WG1454194-1 | |
| 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 | 34. | |

Tentatively Identified Compounds

| No Tentatively Identified Compounds | ND | ug/kg |
|-------------------------------------|----|-------|
| ····· | | 3 3 |

| | | | Acceptance | |
|----------------------|-----------|-----------|------------|--|
| Surrogate | %Recovery | Qualifier | Criteria | |
| 2-Fluorophenol | 80 | | 25-120 | |
| Phenol-d6 | 79 | | 10-120 | |
| Nitrobenzene-d5 | 77 | | 23-120 | |
| 2-Fluorobiphenyl | 71 | | 30-120 | |
| 2,4,6-Tribromophenol | 71 | | 10-136 | |
| 4-Terphenyl-d14 | 75 | | 18-120 | |



Project Number: N30 Lab Number: L2101107

| Devementer | LCS % Pasavory | LCSD % Bocovory | % | 6Recovery | 000 | RPD Outel Limite | |
|---------------------------------------|-------------------------------|--------------------|-------------|-------------|-----|---------------------|--|
| Parameter | %Recovery Quar | ////ecovery | Quai | LIIIIIIS | RPD | Quai Liiniits | |
| Semivolatile Organics by GC/MS - West | borough Lab Associated sample | e(s): 03 Batch: | WG1454194-2 | WG1454194-3 | 3 | | |
| Acenaphthene | 75 | 80 | | 31-137 | 6 | 50 | |
| Hexachlorobenzene | 76 | 83 | | 40-140 | 9 | 50 | |
| Bis(2-chloroethyl)ether | 79 | 81 | | 40-140 | 3 | 50 | |
| 2-Chloronaphthalene | 75 | 80 | | 40-140 | 6 | 50 | |
| 3,3'-Dichlorobenzidine | 54 | 62 | | 40-140 | 14 | 50 | |
| 2,4-Dinitrotoluene | 92 | 100 | | 40-132 | 8 | 50 | |
| 2,6-Dinitrotoluene | 79 | 84 | | 40-140 | 6 | 50 | |
| Fluoranthene | 76 | 80 | | 40-140 | 5 | 50 | |
| 4-Chlorophenyl phenyl ether | 75 | 81 | | 40-140 | 8 | 50 | |
| 4-Bromophenyl phenyl ether | 76 | 82 | | 40-140 | 8 | 50 | |
| Bis(2-chloroisopropyl)ether | 77 | 80 | | 40-140 | 4 | 50 | |
| Bis(2-chloroethoxy)methane | 89 | 93 | | 40-117 | 4 | 50 | |
| Hexachlorobutadiene | 63 | 65 | | 40-140 | 3 | 50 | |
| Hexachlorocyclopentadiene | 70 | 73 | | 40-140 | 4 | 50 | |
| Hexachloroethane | 75 | 76 | | 40-140 | 1 | 50 | |
| Isophorone | 94 | 99 | | 40-140 | 5 | 50 | |
| Naphthalene | 72 | 76 | | 40-140 | 5 | 50 | |
| Nitrobenzene | 82 | 86 | | 40-140 | 5 | 50 | |
| NDPA/DPA | 80 | 87 | | 36-157 | 8 | 50 | |
| n-Nitrosodi-n-propylamine | 91 | 95 | | 32-121 | 4 | 50 | |
| Bis(2-ethylhexyl)phthalate | 103 | 110 | | 40-140 | 7 | 50 | |
| Butyl benzyl phthalate | 83 | 88 | | 40-140 | 6 | 50 | |
| Di-n-butylphthalate | 97 | 104 | | 40-140 | 7 | 50 | |



Project Number: N30 Lab Number: L2101107

| Paramatar | LCS % Pocovory | LC Val %Rev | SD | % Qual | Recovery | חחח | Qual | RPD Limits | |
|--------------------------------|--------------------------------|----------------|--------|-------------|-------------|-----|------|---------------|--|
| Farameter | | | overy | Quai | Linits | RPD | Quai | Linits | |
| Semivolatile Organics by GC/MS | - Westborough Lab Associated s | ample(s): 03 | Batch: | WG1454194-2 | WG1454194-3 | | | | |
| Di-n-octylphthalate | 98 | | 104 | | 40-140 | 6 | | 50 | |
| Diethyl phthalate | 89 | | 97 | | 40-140 | 9 | | 50 | |
| Dimethyl phthalate | 83 | | 88 | | 40-140 | 6 | | 50 | |
| Benzo(a)anthracene | 80 | | 86 | | 40-140 | 7 | | 50 | |
| Benzo(a)pyrene | 87 | | 93 | | 40-140 | 7 | | 50 | |
| Benzo(b)fluoranthene | 84 | | 88 | | 40-140 | 5 | | 50 | |
| Benzo(k)fluoranthene | 82 | | 86 | | 40-140 | 5 | | 50 | |
| Chrysene | 80 | | 84 | | 40-140 | 5 | | 50 | |
| Acenaphthylene | 80 | | 84 | | 40-140 | 5 | | 50 | |
| Anthracene | 77 | | 83 | | 40-140 | 8 | | 50 | |
| Benzo(ghi)perylene | 76 | | 82 | | 40-140 | 8 | | 50 | |
| Fluorene | 77 | | 83 | | 40-140 | 8 | | 50 | |
| Phenanthrene | 74 | | 79 | | 40-140 | 7 | | 50 | |
| Dibenzo(a,h)anthracene | 78 | | 83 | | 40-140 | 6 | | 50 | |
| Indeno(1,2,3-cd)pyrene | 77 | | 82 | | 40-140 | 6 | | 50 | |
| Pyrene | 74 | | 79 | | 35-142 | 7 | | 50 | |
| Biphenyl | 78 | | 83 | | 37-127 | 6 | | 50 | |
| 4-Chloroaniline | 38 | Q | 41 | | 40-140 | 8 | | 50 | |
| 2-Nitroaniline | 83 | | 87 | | 47-134 | 5 | | 50 | |
| 3-Nitroaniline | 62 | | 71 | | 26-129 | 14 | | 50 | |
| 4-Nitroaniline | 88 | | 95 | | 41-125 | 8 | | 50 | |
| Dibenzofuran | 76 | | 81 | | 40-140 | 6 | | 50 | |
| 2-Methylnaphthalene | 73 | | 76 | | 40-140 | 4 | | 50 | |



Project Number: N30 Lab Number: L2101107

| | LCS | | LCSD | | %Recovery | | | RPD | |
|---|---------------|------------------|-------------|-------------|---------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | |
| Semivolatile Organics by GC/MS - Westboro | ugh Lab Assoc | iated sample(s): | : 03 Batch: | WG1454194-2 | 2 WG1454194-3 | | | | |
| 1,2,4,5-Tetrachlorobenzene | 74 | | 77 | | 40-117 | 4 | | 50 | |
| Acetophenone | 98 | | 105 | | 14-144 | 7 | | 50 | |
| 2,4,6-Trichlorophenol | 78 | | 83 | | 30-130 | 6 | | 50 | |
| p-Chloro-m-cresol | 86 | | 93 | | 26-103 | 8 | | 50 | |
| 2-Chlorophenol | 82 | | 84 | | 25-102 | 2 | | 50 | |
| 2,4-Dichlorophenol | 85 | | 89 | | 30-130 | 5 | | 50 | |
| 2,4-Dimethylphenol | 90 | | 91 | | 30-130 | 1 | | 50 | |
| 2-Nitrophenol | 90 | | 95 | | 30-130 | 5 | | 50 | |
| 4-Nitrophenol | 91 | | 100 | | 11-114 | 9 | | 50 | |
| 2,4-Dinitrophenol | 73 | | 77 | | 4-130 | 5 | | 50 | |
| 4,6-Dinitro-o-cresol | 78 | | 85 | | 10-130 | 9 | | 50 | |
| Pentachlorophenol | 77 | | 83 | | 17-109 | 8 | | 50 | |
| Phenol | 85 | | 89 | | 26-90 | 5 | | 50 | |
| 2-Methylphenol | 87 | | 91 | | 30-130. | 4 | | 50 | |
| 3-Methylphenol/4-Methylphenol | 92 | | 98 | | 30-130 | 6 | | 50 | |
| 2,4,5-Trichlorophenol | 80 | | 84 | | 30-130 | 5 | | 50 | |
| Carbazole | 81 | | 87 | | 54-128 | 7 | | 50 | |
| Atrazine | 102 | | 108 | | 40-140 | 6 | | 50 | |
| Benzaldehyde | 73 | | 86 | | 40-140 | 16 | | 50 | |
| Caprolactam | 86 | | 93 | | 15-130 | 8 | | 50 | |
| 2,3,4,6-Tetrachlorophenol | 78 | | 81 | | 40-140 | 4 | | 50 | |



Project Name: JCC/DOWCRAFT

Project Number: N30

Lab Number: L2101107

| | LCS | | LCSD | 9 | %Recovery | | | RPD | |
|---|------------------|---------------|-------------|-------------|---------------|-----|------|--------|--|
| Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | |
| | | | | | | | | | |
| Semivolatile Organics by GC/MS - Westborg | ough Lab Associa | ted sample(s) | : 03 Batch: | WG1454194-2 | 2 WG1454194-3 | | | | |

| Surrogate | LCS %Recovery Qual | LCSD %Recovery Qual | Acceptance Criteria |
|----------------------|-----------------------|------------------------|------------------------|
| 2-Fluorophenol | 78 | 80 | 25-120 |
| Phenol-d6 | 80 | 82 | 10-120 |
| Nitrobenzene-d5 | 79 | 83 | 23-120 |
| 2-Fluorobiphenyl | 70 | 73 | 30-120 |
| 2,4,6-Tribromophenol | 80 | 87 | 10-136 |
| 4-Terphenyl-d14 | 71 | 75 | 18-120 |



INORGANICS & MISCELLANEOUS



|--|

01/12/21 13:16

121,2540G

RI

| Project Name: | JCC/DOWCRAF | т | | | | | Lab Nu | umber: | L2101107 | |
|------------------|---------------|-----------|-------|--------|-------|--------------------|------------------|------------------|----------------------|---------|
| Project Number: | N30 | | | | | | Report | t Date: | 01/15/21 | |
| | | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: | L2101107-01 | | | | | | Date C | ollected: | 01/08/21 09:15 | |
| Client ID: | MIHPT-1 | | | | | | Date R | eceived: | 01/08/21 | |
| Sample Location: | Not Specified | | | | | | Field P | rep: | Not Specified | |
| Sample Depth: | | | | | | | | | | |
| Matrix: | Soil | | | | | | | | | |
| Parameter | Result Qua | alifier U | Jnits | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |

0.100

NA

1

-

%



Solids, Total

75.8

|--|

| Project Name: Project Number: | JCC/DOWC N30 | RAFT | | | | | Lab N Repo | lumber: rt Date: | L2101107 01/15/21 | |
|---|---|-----------|-------|--------|-------|--------------------|-----------------------------|----------------------------------|---|---------|
| | | | | SAMPLE | RESUL | TS | | | | |
| Lab ID: Client ID: Sample Location: | L2101107-02 MIHPT-3 Not Specifie [,] | 2 d | | | | | Date (Date I Field I | Collected: Received: Prep: | 01/08/21 10:00 01/08/21 Not Specified | |
| Sample Depth: Matrix: | Soil | Qualifier | Units | RI | MDI | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |



|--|

| Project Number: | JCC/DOWC | RAFT | | | | | Lab N Repo | lumber: rt Date: | L2101107 01/15/21 | |
|---|--|-----------|-------|--------|-------|--------------------|-----------------------------|----------------------------------|---|---------|
| | | | | SAMPLE | RESUL | rs | | | | |
| Lab ID: Client ID: Sample Location: | L2101107-03 MIHPT-4 Not Specifie | 3 d | | | | | Date (Date F Field I | Collected: Received: Prep: | 01/08/21 10:34 01/08/21 Not Specified | |
| Sample Depth: Matrix: | Soil | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |



|--|

| Project Name: Project Number: | JCC/DOWC N30 | RAFT | | | | | Lab N Repo | lumber: rt Date: | L2101107 01/15/21 | |
|---|---------------------------------------|-----------|-------|--------|-------|--------------------|---------------------------|----------------------------------|---|---------|
| | 100 | | | SAMPLE | RESUL | TS | · | | | |
| Lab ID: Client ID: Sample Location: | L2101107-0 MIHPT-9 Not Specifie | 4 d | | | | | Date (Date I Field | Collected: Received: Prep: | 01/08/21 10:50 01/08/21 Not Specified | |
| Sample Depth: Matrix: | Soil | Qualifier | Unite | PI | МП | Dilution Factor | Date Prepared | Date Analvzed | Analytical Method | Analyst |



| Project Name: | JCC/DOWCRAFT | Li | ab Duplicate Analy Batch Quality Control | /sis | L | ab Number | : L2101107 |
|-----------------|--------------|---------------|---|-------|-----|------------|------------|
| Project Number: | N30 | | | | R | eport Date | : 01/15/21 |
| Paramotor | | Nativo Samplo | Duplicate Sample | Unite | חפפ | Qual | PPD Limits |

| Parameter | Native Sample | Duplicate Sample | e Units Ri | D Quai RPD Limits |
|-------------------------------------|--------------------------------|------------------------|----------------------|-------------------------------|
| General Chemistry - Westborough Lab | Associated sample(s): 03 QC B | atch ID: WG1453961-1 Q | C Sample: L2101337-0 | 01 Client ID: DUP Sample |
| Solids, Total | 83.7 | 81.9 | % | 2 20 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02,04 | QC Batch ID: WG1454120 | -1 QC Sample: L210 | 1378-01 Client ID: DUP Sample |
| Solids, Total | 85.0 | 85.1 | % | 0 20 |



Project Name: JCC/DOWCRAFT Project Number: N30

Serial_No:01152114:33 Lab Number: L2101107 Report Date: 01/15/21

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A | Absent |

| Container Info | | Initial | Final | Temp | | | Frozen | | |
|----------------|------------------------------------|---------|-------|------|-------|------|--------|-----------------|-------------------------|
| Container ID | Container Type | Cooler | рН | рН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L2101107-01A | Vial Large Septa unpreserved (4oz) | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14),TS(7) |
| L2101107-01X | Vial MeOH preserved split | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14) |
| L2101107-01Y | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-01Z | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-02A | Vial Large Septa unpreserved (4oz) | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14),TS(7) |
| L2101107-02X | Vial MeOH preserved split | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14) |
| L2101107-02Y | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-02Z | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-03A | Vial Large Septa unpreserved (4oz) | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14) |
| L2101107-03B | Glass 120ml/4oz unpreserved | А | NA | | 4.9 | Y | Absent | | NYTCL-8270(14),TS(7) |
| L2101107-03X | Vial MeOH preserved split | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14) |
| L2101107-03Y | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-03Z | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-04A | Vial Large Septa unpreserved (4oz) | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14),TS(7) |
| L2101107-04X | Vial MeOH preserved split | А | NA | | 4.9 | Y | Absent | | NYTCL-8260-R2(14) |
| L2101107-04Y | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |
| L2101107-04Z | Vial Water preserved split | А | NA | | 4.9 | Y | Absent | 12-JAN-21 03:14 | NYTCL-8260-R2(14) |



Project Name: JCC/DOWCRAFT

Project Number: N30

Lab Number: L2101107

Report Date: 01/15/21

GLOSSARY

Acronyms

| 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.) |
|----------|---|
| EDL | - 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. |
| LOD | - 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.) |
| LOQ | - 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 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 only.) |
| MDL | - 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. |
| MS | - 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. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile 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. |
| RPD | - 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. |
| TEQ | - 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: JCC/DOWCRAFT

Project Number: N30

Lab Number: L2101107

Report Date: 01/15/21

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.

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 Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. 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, Benz(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 at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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.)

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.
- B 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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the 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. For NJ-related projects, flag only applies to associated field samples that have detectable concentrations of 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).
- C Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** 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.
- J 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 Identified Compounds (TICs).
- 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.

Report Format: DU Report with 'J' Qualifiers



Serial_No:01152114:33

Project Name: JCC/DOWCRAFT

Project Number: N30

Lab Number: L2101107 Report Date: 01/15/21

Data Qualifiers

- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: JCC/DOWCRAFT Project Number: N30
 Lab Number:
 L2101107

 Report Date:
 01/15/21

REFERENCES

- 1 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.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.
Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 1-Methylnaphthalene.
EPA 3C Fixed gases
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 332: Perchlorate; 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 I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs **EPA 625.1**: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.

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

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.

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.

| Westborough, MA 01581 | NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 | Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Co Project Information | 05 | Page 0 | e if / | Date Rec'd in Lab //9/2/ | | | | | | ALPHA Job # | |
|---|---|--|---------------------------------|--|-----------|-----------------------------|-------------------------|------------------|---------|-----------|--|---------------------------------|--|
| 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Project Name: 5C Project Location: | C/D | bixcraf | 7 | | R | ASP-A EQuIS (| 1 File) | 日日 | ASP-B EQuIS (4 | 4 File) | Same as Client Info |
| Client Information | | Project # 1/30 | | | | | | Other | | | | | |
| Client: LES ZI | 1giller S | (Use Project name as Pr | (Use Project name as Project #) | | | | | | quireme | nt | | | Disposal Site Information |
| Address: | - | Project Manager: | | | | | | NY TOGS | | AT | Please identify below location of | | |
| | | ALPHAQuote #: | 2 | | - | | AWQ Standards NY CP-51 | | | | | applicable disposal facilities. | |
| Phone: | | Turn-Around Time | | Contraction of the local division of the loc | 12 11 12 | | NY Restricted Use Other | | | | | | Disposal Facility: |
| Fax: | | Standard | AT | Due Date: | | | NY Unrestricted Use | | | | | | |
| Email: | | Rush (only if pre approved | | # of Davs: | | | NYC Sewer Discharge | | | | | Other T | |
| These samples have b | een previously analyze | ed by Alpha | | | | - | ANALYSIS | | | | | Sample Filtration | |
| Other project specific | requirements/comm | ients: | | | | | | | | | | - | outple Fildentest |
| Please specify Metals | s or TAL. | | | | | | 0+17C | 0+17C | | | | | Done t Lab to do a Preservation l Lab to do B (Please Specify below) t |
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| (Lab use only) | 14414 | | Date | Time | Matrix | Initials | 00 | 3 | | | | | Sample Specific Comments |
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| Preservative Code: Container Code Westboro: Certification No: MA935 A = None P = Plastic Westboro: Certification No: MA935 B = HCl A = Amber Glass Mansfield: Certification No: MA015 C = HNO3 V = Vlal Mansfield: Certification No: MA015 D = H2SO4 G = Glass Mansfield: Certification No: MA015 | | | | | Con | A | | | | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not | | |
| E = NaOH F = MeOH | C = Cube | O should be a second se | | | | | | | | | | _ | start until any ambiguities are |
| G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH | O = Other E = Encore D = BOD Bottle | Contracting and the second sec | | | 1:000 | Mart | Receiv | ed By: | C ARI | Date/Time | | | THIS COC, THE CLIENT HAS READ AND AGREES |
| O = Other | | 17 you | - The | 118/2 | 1300 | 10G | 110 | 110 | 1 | 11 | IAI O | 1190 | TERMS & CONDITIONS |
| Form No: 01-25 HC (rev. 3(| 0-Sept-2013) | | | | , | | | -// | | | | | (See reverse side.) |