INVENTUM ENGINEERING, PC

August 3, 2020

Megan Kuczka
Project Manager
New York State Department of Environmental Conservation
270 Michigan Ave
Buffalo, NY 14203-2915.

Re: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Buffalo Color Corporation Site Area C
Site No.: C915231
Site Address: 229 Elk Street
Buffalo, New York 14210

Dear Ms. Kuczka:

On behalf of South Buffalo Development Corporation, LLC (SBD), Inventum Engineering is submitting this revised periodic review report (PRR) for the Buffalo Color Area C Site (referred hereafter as the Site). This report documents the implementation of, and compliance with, site-specific SM requirements for the reporting period of October 5, 2018 to October 2019. The forms for the site are enclosed documenting the SM requirements during the reporting period. The Institutional Controls (ICs) portion of the form (Box 6) and the Engineering Controls (ECs) portion of the form (Box 7) have been signed.

Please feel free to call with any questions or comments.
Respectfully submitted,

John P. Black, P.E.

President
Enclosures

Enclosures

Enclosure A

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**

Site No. **C915231**

Site Name Buffalo Color Corporation Site Area C

Site Address: 229 Elk Street Zip Code: 14210
City/Town: Buffalo
County: Erie
Site Acreage: 6.0

Reporting Period: October 05, 2018 to October 05, 2019

YES NO

1. Is the information above correct?

   If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? No

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? Yes

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? Yes

   If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development? Yes

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
   Commercial and Industrial

7. Are all ICs/ECs in place and functioning as designed? Yes

IF THE ANSWER TO EITHER QUESTION 6 OR 7 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 issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

   If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years) Yes

   If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915231

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
122.12-1-30	South Buffalo Development, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction * Monitoring Plan Site Management Plan IC/EC Plan

* IN 2020 A CHANGE IN USE WILL BE PROPOSED.

The Site Management Plan includes:
- An Institutional Controls Plan. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial purposes).
- A Soil/Fill Management Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

122.12-1-35	South Buffalo Development, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction * Monitoring Plan Site Management Plan IC/EC Plan

The Site Management Plan includes:
- An Institutional Controls Plan. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial purposes).
- A Soil/Fill Management Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

122.12-1-36	South Buffalo Development, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction * Monitoring Plan Site Management Plan IC/EC Plan

The Site Management Plan includes:
- An Institutional Controls Plan. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial purposes).
- A Soil/Fill Management Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
122.12-1-30	Cover System

- Cover System per Site Management Plan. MODIFIED BY DEVELOPMENT

122.12-1-35	Cover System

Parcel	Engineering Control
- Cover System per Site Management Plan.	
122.12-1-36	
	Cover System
- Cover System per Site Management Plan.	

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

   YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or 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 Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

   YES NO

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 issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915231

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.

I John P. Black at 481 Carlisle Dr. #202 Herndon, VA 20170,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/2/2020
Date

C

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 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.

JOHN P. BLACK at INVENTUM ENGINEERING
print name print business address

am certifying as a Professional Engineer for the SED
(Owner or Remedial Party)

STATE OF NEW YORK
JOHN P. BLACK
No. 062818-1
LICENSED PROFESSIONAL ENGINEER

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

6/17/2020
Date

Enclosure B

Buffalo Color Corporation Site Area C
Site Management Periodic Review Report

229 Elk St.
NYSDEC Site Number C915231

Dates Covered by Report:
October 5, 2018 to October 4, 2019

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Executive Summary

1.1 Site Summary

The 6.03-acre Area C Site is located at 229 Elk Street in the City of Buffalo, County of Erie, New York (Figure 1). Area C is one of five areas that comprised the former Buffalo Color Corporation (BCC). BCC produced dyes and organic chemicals until its bankruptcy in 2005. Remedial investigations had previously determined that Site soil contained concentrations of certain metals and organic substances that exceeded the NY Commercial Soil Cleanup Objectives (SCOs). Shallow groundwater on the northern half of Area C was found to contain concentrations of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) that exceeded the NY Class GA standards (a/k/a groundwater quality standards or GWQS), a remedial goal.

The primary remedial objectives at the Area C Site were to eliminate the potential for direct contact with impacted soils and to eliminate the potential for impacted groundwater to discharge off-Site.

The key remedial actions for the Site included:

- Excavation and off-Site disposal of soils containing constituents exceeding SCOs;
- Utilization of a bioremediation enhancement agent (Regenesis ORC-A) within source excavation backfill to promote the bioremediation of residual soil and groundwater contamination.
- Installation of an integrated Site-wide cover system to prevent human exposure to remaining contamination at the Site;
- Abandonment/plugging of unused process sewers and installation of a new storm sewer system;
- Execution and recording of an Environmental Easement to restrict land use and address future exposure to any remaining contamination at the Site; and
- Development and implementation of a Site Management Plan for long term management of remaining contamination.

During the reporting period, the following routine Operations, Maintenance, and Monitoring (OMM) activities were completed in accordance with the Site Management Plan (SMP) prepared by Mactec Engineering and Consulting P.C. dated December 20, 2010 (referred to hereafter as the SMP):

- Quarterly shallow groundwater sampling; and
- Quarterly Site inspections.

Tables summarizing groundwater monitoring results and figures showing the corresponding VOC concentrations are included for each of the quarterly sampling events covered within the reporting time period.

1.2 Effectiveness of the Remedial Program

The following conclusions were developed based on the data collected during the reporting period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cover system is satisfactory, and vegetation is established within soil/grass areas, the remedy

remains protective for direct contact with impacted soils. It should be noted that during the redevelopment and reconstruction of the cover there will be times when the vegetation and cover thickness is reduced to allow removal and replacement of the topsoil and to allow excavations required for utilities, transition zones, and pavement. During those periods, the site access will be limited by the full-time presence of the remedial crews.

- VOCs remain at the Site in groundwater samples from the northern portion as shown by the data from monitoring wells MW-C04, PS-05A, RFI-20A (low) and RFI-31; however, decreasing trends (evident in RFI-31, PS-05A, and RFI-20A) and asymptotic and/or below standards concentrations (evident in PS-04A,PS-06, MW-C01 and MW-C04) is apparent from the long term groundwater analytical comparative tables (See Table 2).
- Monitoring wells MW-C01, PS-04A, and PS-06 are proposed to be removed from the monitoring program and that the wells be abandoned..
- Tabulated groundwater analytical data, concentration and groundwater elevation figures are provided in Tables 1, 2 and 3 and Figures 4, 5, 6 and 7.

The Inspection logs are attached in Table 4.

1.2.1 Progress During the Reporting Period

The groundwater system is relatively stable, the rate of attenuation in the northeast corner has not accelerated since the previous reporting period, and the southern portion of the site in the vicinity of monitoring wells MW-C01, PS-04A, and PS-06 has been successfully remediated.

1.2.2 Progress to Remedial Objectives for the Site

The following conclusions were developed based on data collected during the reporting period:

- Site inspection reports (Table 4) indicate that the soil cover was intact, and the remedy remained protective for preventing inadvertent direct contact with impacted soils. It should be noted that during the redevelopment and reconstruction of the cover there will be times when the cover thickness is reduced to allow removal and replacement of the topsoil and to allow excavations required for utilities, transition zones, and pavement. During those periods, the site access will be limited by the full-time presence of the remedial crews.
- The groundwater in the southern portion of the site in the vicinity of monitoring wells MW-C01, PS-04A, and PS-06 has been successfully remediated. Despite the progress, the renovations include an active sub-slab depressurization system designed in accordance with the SMP. The system will include a series of sumps, sump pumps, perforated piping, and fans. The sumps include sump pumps to maintain the groundwater elevation below the slabs and soil vapor extraction piping. The water will be discharged from the sumps to the BSA Sewer under permit.
- The groundwater concentrations in the northern part of the site remain above the goals for the site, albeit well below the concentrations at the beginning of the remedial action.

1.3 Compliance

The cover system and environmental easement were in place and continued to function as designed during the reporting period. The site is being actively developed and the minimum thickness of the cover system will be increased to 24-inches and a sub-slab depressurization system will be installed, tested, and operated below the building basement. The building basement elevation is below the elevation periodically monitored for the top of groundwater, the space currently being developed as a basement was normally flooded, and therefore the

SSD system will be supplemented with sumps and sump pumps to create a soil vapor space below the slabs during those periods when the groundwater rises.

1.3.1 Potential Non-compliance

No areas of non-compliance were identified during the reporting period.

1.3.2 Proposed Steps

As the renovation of the building is completed, the minimum thickness of the capping system will be increased in accordance with the site plans.

1.4 Recommendations

1.4.1 Recommended Changes to the SMP

The SMP will be revised as soon as the As-Built Drawings for the redevelopment are available. Following the installation, testing and initial operation of the sub-slab depressurization (SSD) system, the SMP will be modified to include the new cap as-built conditions and the monitoring of the manometers for the SSD. The groundwater in the southern portion of the site in the vicinity of monitoring wells MW-C01, PS-04A, and PS-06 has been successfully remediated and following the next reporting period these wells are proposed for removal from the program and abandonment.

1.4.2 Recommend Changes to the Frequency for Submittal of PRRs

There is no recommended change to the frequency of the PRRs currently.

1.4.3 Recommend Whether the Requirements for Discontinuing Site Management

It is appropriate to continue Site Management.

2 Site Overview

2.1 Site Location

The Site is located at 229 Elk Street in the City of Buffalo, County of Erie, New York (Figure 1). The Site is an approximate 6.03-acre area bounded by Elk Street to the north, a rail spur and associated right-of-way to the south, Lee Street to the east, and multiple railroad tracks to the west. A single structure remains on Area C, the former Buffalo Color powerhouse. This structure has been cleared of asbestos and residual chemicals and is currently being renovated for adaptive reuse; commercial, office and restricted residential. The Site is part of the former Buffalo Color Corporation facility, which also included Areas A and B located beyond the rail spur to the south and Area E located across Lee Street to the east (Figure 2). The surrounding area consists of industrial and residential properties.

Originally founded as the Schoellkopf Aniline and Dye Company in 1879, the plant produced dyes and organic chemicals based primarily on aniline and various aniline derivatives. The company was reorganized into the National Aniline Chemical Company in 1916. It became one of the five companies that merged to create Allied Chemical Corporation (Allied Chemical) in 1920. The existing dye-making facility and the right to produce certain dyes and intermediates were sold by Allied Chemical to Buffalo Color Corporation (BCC) on July 1, 1977. At the time of the sale, the plant was divided into eight areas designated with the letters A, B, C, D, E, F, G, and H. Buffalo Color Corporation purchased the manufacturing areas A through E, while Allied Chemical retained an acid plant (which was subsequently sold to PVS Chemicals in 1981), the research and development facility on Area F, and the parking lots on Areas G (Elk Street) and H (Smith Street). In 2005, BCC filed for bankruptcy and ceased manufacturing activity. In conjunction with the bankruptcy, the office building and former plant hospital located at 100 Lee Street on Area B and the warehouse building (Building 322) located near Elk Street on Area E, along with some of the land under and around those buildings, were sold to other parties. Agreements are in place to preserve access rights to the land for the purposes of any required monitoring, inspections, environmental investigation, and remediation activities. The remaining buildings and property on Areas A, B, C, D and E were purchased by SBD in 2008.

Beginning in July 2017, OSC on behalf of SBD began the demolition of the 30,000 square feet Icehouse building on Area A. The building was taken down due to structural instability, and the work was completed in December 2017. OSC removed brick and rubble from the building and basement of the Boiler House between February 2018 and April 2018. Following those activities, the brick and block in-fill in the former window openings was removed.

The redevelopment activities extend into the next reporting period and will be addressed in additional detail in that PRR. A Remedial Action Work Plan has been prepared for the site to increase the cover systems to allow restricted residential use of the property.

2.2 Chronology of the Remedial Program

Numerous environmental investigations have been completed for the Buffalo Color property, including Area C, dating back to the 1980s. In 2007-2008, Mactec Engineering and Consulting P.C. completed, with NYSDEC approval, a Remedial Investigation (RI) to characterize the nature and extent of contamination at the overall Site including Area C. In early 2009, demolition of former plant structures and remedial source excavations were initiated across the SBD properties.

The primary remedial objectives at the Area C Site were to eliminate the potential for direct contact with impacted soils and to eliminate the potential for impacted groundwater to discharge off-Site. The key remedial actions for the Site are summarized below:

- Excavation and off-Site disposal of approximately 10,527 CY (in-place volume) of VOC-contaminated soils from two locations on the northern side of Area C to accomplish mass removal of the source material;
- The addition of a bioremediation enhancement agent (Regenesis ORC-A) to the excavation backfill to promote the bioremediation of residual soil and groundwater contamination at and downgradient of the excavated areas;
- Utilization of an integrated Site-wide cover system consisting of a combination of (1) a minimum of one foot of imported clean soil and topsoil (seeded with native grasses) underlain by a demarcation layer consisting of a woven geotextile; (2) existing/new pavement (asphalt or concrete); and/or (3) existing buildings to address human exposure to remaining contamination at the Site;
- Introduction of enhancements for the natural attenuation of organic compounds in groundwater. Regenisis ORC-A was introduced in the backfill used to fill the remedial investigations and introduced in a number of wells on the Site;
- Abandonment/plugging of unused process sewers and installation of new storm sewer infrastructure, as appropriate;
- Execution and recording of an Environmental Easement in favor of NYSDEC to restrict land use and address future exposure to any remaining contamination at the Site. Elements of the Environmental Easement include prohibiting groundwater use, providing protocols for disturbance of Site and, soils and/or groundwater, limiting future land use to commercial or industrial use, and requiring that occupied structures associated with future development at the Site address the vapor intrusion (VI) pathway (either through construction methods or through additional characterization to ensure that the area over which the structure will reside does not present a potential VI concern); and
- Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

The above-described remedial activities were completed at the Site in 2010 and are documented in the Area C Final Engineering Report (Mactec, 2010).

Groundwater monitoring activities to assess contaminant levels in shallow Site groundwater and assess the process of natural attenuation (enhanced through addition of ORC-A to remedial excavation backfill), will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable concentrations over an extended period. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC.

3 Evaluate Remedy Performance, Effectiveness, and Protectiveness

The performance, effectiveness and protectiveness of the remedy is verified by ensuring that the cover system is intact as constructed and ensure that off-Site migration of remaining contamination is progressively mitigated through the long-term Site monitoring well sampling program. New York State Water Quality Standards for Surface Water and Groundwater (Table 1 and 1A, Section 703.5 - Class GA) are the established groundwater quality objectives for the Site. TestAmerica Laboratories, Inc. in Amherst, NY performed the laboratory analysis for the collected groundwater samples. Tabulated groundwater analytical data, concentration and groundwater elevation data are provided in Tables 1, 1A and 2 and Figures 3 through 8. The data show the groundwater in the southern half of the site has been successfully remediated, while natural attenuation is ongoing in the northern half of the Area C Site.

3.1 IC/EC Requirements and Compliance

A series of Institutional Controls (IC) have been developed and are adhered to by the established Site Environmental Easement. These Institutional Controls are designed to:

- Implement, maintain, and monitor Engineering Control systems;
- Address future exposure to remaining contamination by controlling disturbances of the subsurface contamination;
- Prohibit Site groundwater use; and
- Limit the use and development of the Site to commercial and industrial uses only.

3.1.1 Controls

Engineering Controls (EC) developed for the Site consist of:

- An integrated Site-wide cover system consisting of a combination of a minimum of one foot of imported clean soil and topsoil (seeded with native grasses) underlain by a demarcation layer consisting of a woven geotextile, existing/new pavement (asphalt or concrete), and/or existing buildings to address human exposure to remaining contamination at the Site;
- Protocols for the activities required for disturbance of Site soils and/or groundwater, and
- Contingencies for addressing potential vapor intrusion (VI) pathways of occupied structures associated with future development at the Site.

Compliance with the Site IC/EC's is evaluated through documented quarterly Site-wide and cover system inspections. Site-wide and cover system inspection sheets for the reporting period are provided in Attachment B.

No deficiencies or comments for concern were noted throughout the reporting period.

The City of Buffalo approved redevelopment of the property in 2019. The RAWP for 2019 includes enhancements to the cover (minimum thickness shall be 2-feet), installation of sub-slab depressurization (SSD) beneath structures to be occupied, improved stormwater management, and enhanced attenuation of constituents in groundwater.

3.1.2 Status

Performance of Site IC/ECs is evaluated through the following tasks:

- Documented Site-wide, cover system to ensure the environmental easement was active and in force, the cover system was intact and protective to potential human exposure during the reporting period.

The Site IC/ECs are all currently active and in force.

3.1.3 Corrective Measures

No corrective measures are required, but it is worth noting that following renovation of the building, the cover system will be upgraded and an SSD system will be installed, tested, and continuously operated.

3.1.4 Conclusions and Recommendations

There will be several recommended modifications to the cover, management of soil vapor, and ground water monitoring as the redevelopment is constructed.

3.2 IC/EC Certification

The IC/EC certifications are provided in Enclosure A of the cover letter.

4 Monitoring Plan Compliance Report

Components of the Monitoring Plan: Routine Site monitoring activities include:

- Quarterly Low-Flow shallow groundwater sampling; and
- Quarterly Site and cover system inspections.

Summary of Monitoring Completed During Reporting Period: The following tables summarize the routine Site monitoring activities that have been completed in accordance with SMP during the reporting period:

Area C 2018 -2019 Quarterly Monitoring Compliance Summary

	2018	2019
Low Flow Shallow Groundwater Sampling	Quarterly	Quarterly
Site-wide and Cover System Inspections	Quarterly	Quarterly

4.1 Comparisons with Remedial Objectives

Site groundwater analytical results have been tabulated and compared against the established groundwater quality objectives for the Site. Refer to the Evaluation of Remedy Performance, Effectiveness and Protectiveness portion of this report for additional information.

4.2 Monitoring Deficiencies

PS-04A was damaged and could not be monitored after Q2 2019. As this well has only produced one sample (which may have been an anomaly) exceeding the GWQSs this is not considered a significant deficiency.

4.3 Conclusions and Recommendations for Changes

The remedial actions have successfully addressed groundwater impacts in the southern half of Area C. The site is undergoing redevelopment. As a result, the following recommendations are being made:

- The following monitoring wells be considered for abandonment (Q2 2020):
  - MW-C01;
  - PS-04A; and
  - PS-06.
- ORC socks be placed in the following monitoring wells after the Q2 sampling (Q3 2020):
  - MW-C04
  - PS-05A
  - RFI-20A and
  - RFI-31A.
- No samples collected in Q3 or Q4 2020.
- ORC Socks should be removed after 5 months, allowing a minimum of 30 days before the Q1 2021 samples.
- Data validation not necessary as there is no human exposure to groundwater at this site.

5 Operations and Maintenance Plan Compliance Report

5.1 Components of the O&M Plan

The Site remedy does not currently rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included within the SMP.

An active system is required as the former powerhouse building will be occupied in the future, the SMP will be modified accordingly to address operation and maintenance requirements.

5.2 Components of the Monitoring Plan

Area C 2018-2019 Quarterly Well Monitoring Summary

			2018				2019		
Well ID	Monitoring Type	Monitoring Parameters	Q1	Q2	Q3	Q4	Q1	Q2	Q3
MW-C01	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	X
MW-C04	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	X
RFI31-RFI31A	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	X
PS-04A	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	
RFI-20-RFI-20A	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	X
PS-05A	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	X
PS-06	Quarterly Sampling	RCL VOCs, TCL SVOCs, TAL Metals	X	X	X	X	X	X	X

5.3 Summary of Monitoring

Natural attenuation of Site groundwater is tracked through the sampling of Site monitoring wells. New York State Water Quality Standards for Surface Water and Groundwater are the established groundwater quality objectives for the Site. TestAmerica Laboratories, Inc. in Amherst, New York performed the laboratory analysis for the collected groundwater samples.

Tabulated groundwater analytical data for the compounds detected historically, concentration and groundwater elevation figures are provided in Tables 1 and 3 and Figures 2 through 7. While some progress toward the standards is being made the groundwater, concentrations have largely stabilized at the current concentrations.

5.4 Comparisons with Remedial Objectives

The data that exceeded the GWQSs are presented in Table 1 and on Figure 3.

5.5 Monitoring Deficiencies

PS-04A was damaged and could not be monitored after Q2 2019. As this well has only produced one sample (which may have been an anomaly) exceeding the GWQSs this is not considered a significant deficiency.

5.6 Conclusions and Recommendations for Changes

The following monitoring wells be considered for abandonment and removal from the monitoring program (Q2 2020):

    - MW-C01;
    - PS-04A; and
    - PS-06.
- ORC socks be placed in the following monitoring wells after the Q2 sampling (Q3 2020):
    - MW-C04
    - PS-05A
    - RFI-20A and
    - RFI-31A.
- No samples collected in Q3 or Q4 2020.
- ORC Socks should be removed after 5 months, allowing a minimum of 30 days before the Q1 2021 samples.
- Metals have never been a driver and no remedial action was defined by metals. It is proposed that metals be removed from the monitoring program.
- Data validation not necessary as there is no human exposure to groundwater at this site.

6 Operation & Maintenance (O&M) Plan Compliance Report

6.1 Summary of O&M Completed During Reporting Period

Inspections and sampling were conducted in accordance with the SMP.

6.2 O&M Deficiencies

No deficiencies in complying with the O&M Plan have been noted. See notes concerning redevelopment in 2020

7 Overall PRR Conclusions and Recommendations

Compliance with SMP: Activities completed during the reporting period complied with the requirements of the SMP.

7.1 Performance and Effectiveness of the Remedy

The cover system is intact as constructed, and the Site remedy is preventing off-Site migration of Site-related COCs in groundwater. Site groundwater will continue to be monitored as recommended above to determine if the remedy is decreasing COC concentrations in groundwater.

7.2 Future PRR Submittals

It is currently expected that the next PRR will be submitted on or about November 2020.

SBD is conducting redevelopment activities for the buildings located in Area C. The redevelopment includes partial demolition of remaining buildings, enhancements to the capping system, enhancements to the stormwater management system, enhancements to the attenuation of compounds in groundwater (see Supplemental Corrective Measures Work Plan transmitted separately, and Appendix C), addition of sub-slab depressurization systems. and addition of a parking area in accordance with he plans submitted to the City of Buffalo and the Department.

Tables

Table 1
Groundwater Data Summary
Area C
Former Buffalo Color Corporation
Buffalo, New York

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
MW-C01	11/18/2009	24	<5	6.8	2.8 J	<5	<5	33.6	<5	<5	<10	<5	<5	0
	10/10 - 11/10	ORC-A Application												
	3/24/2011	No Sample Collected												
	6/29/2011	6.2	1.2	5.7	1.2	<1	18	32.3	<5.6	<5.6	<11	2.3 J	<5.6	2.3
	9/30/2011	<4	<4	<4	<4	<4	<4	0	<5.9	<5.9	<12	0.63 J	<5.9	0.63
	11/25/2011	<4	<4	<4	<4	<4	<4	0	<4.8	<4.8	<9.7	3.2 J	<4.8	3.2
	3/28/2012	3.1	2.2	29	8.3	<1	21	63.6	<4.7	<4.7	<9.4	1.1 J	<4.7	1.1
	6/22/2012	1.2	0.82 J	7.2	1	<1	2.8	13.02	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/17/2012	0.55 J	<1	2.1 J	<1	<1	<1	2.65	<4.7	<4.7	<9.4	<4.7	<4.7	0
	12/3/2012	0.5 J	<1	1.7	<1	<1	<1	2.2	<4.8	<4.8	<9.7	<4.8	<4.8	0
	3/27/2013	2.9	1.5	13	1.5	<1	3	21.9	<4.8	<4.8	<9.6	<4.8	<4.8	0
	6/1/2013	3.7	1.5	12	1.3	<1	3.8	22.3	<4.7	<4.7	<9.4	<4.7	<4.7	0.43
	9/5/2013	1	<1	2.9	<1	<1	0.88	4.78	<4.7	<4.7	<9.4	<4.7	<4.7	0
	12/2/2013	<4	<4	3.6	<4	<4	<4	3.6	<5	<5	<10	<5	<5	0
	3/21/2014	<1	<1	<1	<1	<1	1.7	1.7	<5	<5	<10	<5	<5	0
	6/19/2014	16	2.6	18	2.9	<1	4.2	43.7	<1.9	<9.4	<9.4	0.31 J	<1.9	3.46
	9/3/2014	1.8 J	<4	5.1	<4	<4	<4	6.9	<5	<5	<10	<5	<5	0
	11/24/2014	2.2	<1	5.7	<1	<1	1.4	9.3	<4.7	<4.7	<9.5	<4.7	<4.7	4.33
	4/2/2015	2.1 J	<4	<4	<4	<4	<4	2.1	<4.6	<4.6	<9.2	<4.6	<4.6	1.92
	6/17/2015	1.8 J	<4	<4	<4	<4	<4	1.8	<4.7	<4.7	<9.4	<4.7	<4.7	1.73
	9/2/2015	1.9	<1	4	<1	<1	1	6.9	<4.7	<4.7	<9.5	<4.7	<4.7	0
	11/5/2015	<1	<1	0.79 J	<1	<1	<1	0.79	<4.6	<4.6	<9.3	<4.6	<4.6	0
	3/30/2016	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	1.1 J	<4.7	<4.7	1.66
	5/23/2016	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	0.74 J	<4.7	<4.7	0.74
	9/7/2016	<1	<1	<1	<1	<1	<1	0	<4.6	<4.6	<9.3	0.48 J	<4.6	2.47
	11/3/2016	<1	<1	<1	<1	<1	<1	0	<4.6	<4.6	<9.2	<4.6	<4.6	0
	2/28/2017	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/13/2017	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0.75
	8/17/2017	<1	<1	<1	<1	<1	<1	3.1	<5	<5	<10	1 J	<5	12.36
	11/21/2017	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	1.3 J	<5	19.22
	2/27/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	1.1 J	<5	12.01
	6/11/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	0.59 J	<5	8.57
	8/21/2018	<2	<2	<2	<2	<2	<2	0	<5	<5	<10	<5	<5	11.4
	11/13/2018	<2	<2	<2	<2	<2	<2	2.1	<50	<25	<50	<25	<25	0
	3/20/2019	<4	<4	<4	<4	<4	<4	0	<5	<5	<10	0.72 J	<5	6.08 J
	5/22/2019	<2	<2	<2	<2	<2	<2	0.91 J	<25	<25	<50	2.4 J	<25	20.1 J
	9/5/2019	0.94 J	<2	3.4	<2	<2	<2	5.03	<25	<25	<50	<25	<25	3.7 J

Table 1
Groundwater Data Summary
Area C
Former Buffalo Color Corporation
Buffalo, New York

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
		No Sample Collected												
	10/10 - 11/10	ORC-A Application												
	3/24/2011	<8	<8	17	29	<8	390	436	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/29/2011	<1	5.7	17	30	<1	390	442.7	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/30/2011	<1	5.7	21	36	<1	500	562.7	<4.8	<4.8	<9.5	<4.8	<4.8	0
	11/25/2011	<4	4.2	16	29	<4	390	439.2	<4.7	<4.7	<9.4	<4.7	<4.7	0
	3/27/2012	2.6 J	4.4	18	29	<1	330	384	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/21/2012	<1	4.6	16	29	<1	310	359.6	1.1 J	<4.7	0.61 J	<4.7	<4.7	1.71
	9/14/2012	<5	<5	9.4	17	<5	370 J	396.4	<4.8	<4.8	<9.6	<4.8	<4.8	0.92
	12/3/2012	<5	<5	15	27	<5	340	382	<4.9	<4.9	<9.8	<4.9	<4.9	2.41
	3/27/2013	<5	5.3	16	27	<5	290	338.3	<5	<5	<10	<5	<5	1.86
	5/31/2013	<5	5.7	16	28	<5	290	343.9	<4.8	<4.8	<9.5	<4.8	<4.8	1.53
	9/5/2013	<5	5.8	17	28	<5	330	380.8	0.72	<4.9	<9.7	<4.9	<4.9	3.03
	12/3/2013	<5	6.9	24	39	<5	360	429.9	<5	<5	<10	<5	<5	1.71
	3/20/2014	<5	5.4	19	30	<5	260	314.4	<5	<5	<10	<5	<5	1.51
	6/19/2014	<4	7.3	23	37	<4	300	369.4	0.48 J	<9.6	<9.6	<1.9	<1.9	0.48
MW-C04	9/3/2014	<5	4.7 J	16	28	<5	260	308.7	<5	<5	<10	<5	<5	2.2
	11/24/2014	<5	6	22	36	<5	320	384	0.52 J	<5	<10	<5	<5	6.29
	4/2/2015	<5	4.5 J	20	31	<5	230	285.5	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/17/2015	<5	5.2	23	36	<5	280	358.2	<4.7	<4.7	<9.4	<4.7	<4.7	2.26
	9/2/2015	<1	<1	<1	<1	<1	<1	0	<5.2	<5.2	<10	<5.2	<5.2	0
	11/5/2015	<10	5	24	40	<10	370	439	0.72 J	<4.7	<9.4	<4.7	<4.7	8.25
	3/30/2016	<10	<10	21	34	<10	260	315	<4.7	<4.7	0.62 J	<4.7	<4.7	3.86
	5/23/2016	<10	<10	24	38	<10	340	402	<4.8	<4.8	<9.7	<4.8	<4.8	1.82
	9/7/2016	<10	<10	16	26	<10	230	272	<4.6	<4.6	<9.3	<4.6	<4.6	1.32
	11/3/2016	<10	<10	17	29	<10	320	366	<4.6	<4.6	<9.3	<4.6	<4.6	2.21
	2/28/2017	<10	<10	14	22	<10	150	198	<4.8	<4.8	<9.5	<4.8	<4.8	0
	6/13/2017	<10	<10	14	25	<10	230	269	<5	<5	<10	<5	<5	4.16
	8/17/2017	<10	<10	10	17	<10	140	167	<5	<5	<10	<5	<5	0
	11/21/2017	<1	2.8	16	30	<1	180	228.8	0.98 J	<5	<10	<5	<5	1.75
	2/27/2018	<1	4.6 J	24	41	<1	280	349.6	<5	<5	<10	<5	<5	0
	6/11/2018	<2	4.4	23	40	<2	310	377.4	3.3 J	<5	<10	<5	<5	5.4
	8/21/2018	<5	5.4	31	59F1	<5	480F1	575.4	5.0	<5	0.99 J	<5	<5	7.4
	11/13/2018	<10	<10	28	49	<10	350	435.8	<10	<5	1.0 J	<5	<5	2.6
	3/20/2019	<10	<10	25	49	<10	330 F1	404	0.54 J	<5	<10	<5	<5	3.02
	5/22/2019	<10	<10	27	51	5.0 J	380	470.7	2.7 J	<10	0.80J	<5	<5	3.5 J
	9/4/2019	<10	<10	36	76	<10F2	560F1	672	5.6	<5	0.94J	<5	<5	7.15

Table 1
Groundwater Data Summary
Area C
Former Buffalo Color Corporation
Buffalo, New York

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
	11/19/2009	<1	<1	<1	<1	<1	0.81 J	0.81	<6.2	<6.2	<12	<6.2	<6.2	0
	10/10 - 11/10	ORC-A Application												
	3/24/2011	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/29/2011	No Sample Collected												
	9/30/2011	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.4	<4.7	<4.7	0
	11/25/2011	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.4	<4.7	<4.7	0
	3/27/2012	<1	<1	<1	<1	<1	<1	0	<26	<26	<52	<26	<26	0
	6/22/2012	2.2	<1	<1	<1	<1	<1	2.2	No Sample Collected					
	9/14/2012	<1	<1	<1	<1	<1	<1	3.2	No Sample Collected					
	12/3/2012	<1	<1	<1	<1	<1	<1	0	<4.9	<4.9	<9.7	<4.9	<4.9	0
	3/27/2013	0.73	<1	<1	<1	<1	<1	0.73	<4.9	<4.9	<9.8	<4.9	<4.9	0
	5/31/2013	<1	<1	<1	<1	<1	1.2	1.2	<5.1	<5.1	<10	<5.1	<5.1	0
	12/2/2013	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	3/20/2014	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	6/19/2014	<1	<1	<1	<1	<1	<1	0	<1.9	<9.7	<9.7	<1.9	<1.9	0
	11/24/2014	0.74 J	<1	<1	<1	<1	<1	0.74	<4.9	<4.9	<9.7	<4.9	<4.9	3.3
PS-04A	4/2/2015	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.5	<4.7	<4.7	0
	6/17/2015	0.58 J	<1	<1	<1	<1	<1	0.58	<4.7	<4.7	<9.3	<4.7	<4.7	0.3
	9/2/2015	<1	5.2	23	36	<1	330	399.8	0.7 J	<4.9	<9.8	<4.9	<4.9	4.84
	11/5/2015	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.4	<4.7	<4.7	0
	3/30/2016	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.4	<4.7	<4.7	0
	5/23/2016	<1	<1	<1	<1	<1	<1	0	<4.8	<4.8	<9.5	<4.8	<4.8	0
	11/3/2016	<1	<1	<1	<1	<1	<1	0	<4.6	<4.6	<9.3	<4.6	<4.6	0
	2/28/2017	<1	<1	<1	<1	<1	<1	0	<4.7	<4.7	<9.3	<4.7	<4.7	0
	6/13/2017	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	8/17/2017	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	1.39
	11/21/2017	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	1.5
	2/27/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	6/11/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	8/21/2018	Dry Well												
	11/13/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	3/20/2019	<1	<1	<1	<1	<1	<1	0	<10	<5	<10	<5	<5	0.47 J
	5/22/2019	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	9/4/2019	No sample collected, well damaged												

Table 1
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		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
PS-05A	11/17/2009*	<1	5	<1	0.76 J	0.97 J	700	706.73	<4.9	<4.9	<9.8	<4.9	<4.9	0
	10/10 - 11/10	ORC-A Application												
	3/24/2011	No Sample Collected												
	6/29/2011	No Sample Collected												
	9/30/2011	<4	41	<4	<4	<4	1200	1241	<5.3	<5.3	<11	<5.3	<5.3	0
	11/25/2011	<4	11	<4	<4	<4	580	591	<4.7	<4.7	<9.4	<4.7	<4.7	0
	3/27/2012	<1.4	13	<1	0.96 J	9.5	560	583.46	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/21/2012	<5	58	<5	<5	<5	870	928	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/17/2012	<4	<4	<4	<4	23 J	210	233	<9.8	<9.8	<20	<9.8	<9.8	2.3
	12/4/2012	<4	8.1	<4	<4	<4	490	498.1	<4.8	<4.8	<9.7	<4.8	<4.8	3.4
	3/26/2013	<8	<8	<8	<8	<8	330	337.5	<5	<5	<9.9	<5	<5	4.45
	5/31/2013	<8	8	<8	<8	<8	470	484.5	<4.8	<4.8	<9.6	<4.8	<4.8	8.1
	9/5/2013	<4	4.5	<4	<4	<4	310	329.2	<4.9	<4.9	<9.8	<4.9	<4.9	3.6
	12/2/2013	<4	4.1	<4	<4	<4	210	214.1	<5	<5	<10	<5	<5	1.7
	3/20/2014	<4	<4	<4	<4	16	330	346	<5	<5	<10	<5	0.64	3.44
	6/19/2014	<4	7.8	<4	<4	<4	330	337.8	<1.9	<9.5	<9.5	<1.9	<1.9	99.9
	9/3/2014	<4	<4	<4	<4	<4	220	220	<5	<5	<10	<5	0.67 J	55.37
	11/24/2014	<4	4.6	<4	<4	<4	270	274.6	<5	<5	<10	<5	<5	6.1
	4/2/2015	<4	3.6 J	<4	<4	10	320	333.6	<4.8	<4.8	<9.5	<4.8	<4.8	3.6
	6/17/2015	<4	9.6	<4	<4	<4	390	399.6	<4.7	<4.7	<9.4	<4.7	<4.7	2.9
	9/2/2015	<4	<4	<4	<4	<4	170	170	<5	<5	<10	<5	<5	1.7
	11/5/2015	<5	4.3 J	<5	<5	<5	280	284.3	<4.6	<4.6	<9.3	<4.6	<4.6	2.16
	3/30/2016	<5	<5	<5	<5	<5	180	180	<4.7	<4.7	<9.4	<4.7	<4.7	3
	5/23/2016	<5	4.1 J	<5	<5	<5	250	254.1	<5	<5	<10	<5	<5	1.1
	9/7/2016	<2	<2	<2	<2	<2	92 J	102.9	<5	<5	<9.9	<5	<5	0.53
	11/3/2016	<5	3.7	<5	<5	<5	250	277.7	<4.7	<4.7	<9.4	<4.7	<4.7	1.17
	2/27/2017	<5	<5	<5	<5	<5	110	131	<4.9	<4.9	<9.8	<4.9	<4.9	2.04
	6/13/2017	<5	<5	<5	<5	<5	260	260	<5	<5	<10	<5	<5	2.9
	8/17/2017	<5	14	<5	<5	<5	550	564	<5	<5	<10	<5	<5	5.4
	11/21/2017	<1	3.6	<1	0.38 J	<1	140	146.98	<5	<5	<10	<5	<5	2.5
	2/27/2018	<1	2.7	<1	<1	<1	160	162.7	<5	<5	<10	<5	<5	1.7
	6/11/2018	<2	28	<2	1.7 J	<2	740F1	769.7	<5	<5	<10	<5	<5	12
	8/22/2018	<10	<10	<10	<10	<10	360	360	<5	<5	<10	<5	<5	7.23
	11/13/2018	<5	<5	<5	<5	<5	220	224.4	<25	<25	<50	<25	<25	3.2
	3/20/2019	<5	<5	<5	<5	<5	130	131.1	<5	<10	<10	<5	<5	1.46 J
	5/22/2019	<5	<5	<5	<5	<5	170	174	<5	<5	<10	<5	<5	0
	9/5/2019	<5	6.4	<5	<5	<5	280	286.4	<5	<5	<10	<5	<5	3.0 J

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Former Buffalo Color Corporation
Buffalo, New York

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
	11/17/2009	<1	<1	<1	<1	0.61 J	<1	0.61	<25	<25	<50	<25	<25	0
	10/10 - 11/10	ORC-A Application												
	3/24/2011	<10	<10	<10	<10	<10	<10	0	<5.2	1.8 J	45	<5.2	1.9 J	48.7
	6/29/2011	<1	<1	<1	<1	2.7	<1	2.7	<4.7	1.3 J	36	<4.7	<4.7	37.3
	9/30/2011	<5	<5	<5	<5	<5	<5	0	<26	<26	8.9 J	<26	<26	8.9
	11/25/2011	<4	<4	<4	<4	<4	<4	0	<4.7	1.3 J	11	<4.7	<4.7	12.3
	3/28/2012	<4	<4	<4	<4	<4	<4	0	<4.7	<4.7	2.9 J	<4.7	<4.7	2.9
	6/21/2012	<4	<4	<4	<4	<4	<4	0	<4.7	0.75 J	3.5 J	<4.7	<4.7	4.25
	9/14/2012	No Sample Collected												
	12/4/2012	<5	<5	<5	<5	<5	<5	0	<4.9	<4.9	<9.7	<4.9	<4.9	0
	3/27/2013	<5	<5	<5	<5	<5	<5	4.6	<25	<25	<49	<25	<25	0
	5/31/2013	<5	<5	<5	<5	<5	<5	3.1	<4.9	<4.9	0.63	<4.9	<4.9	0.98
	9/5/2013	<5	<5	<5	<5	<5	<5	0	<4.8	<4.8	0.74	<4.8	<4.8	0.74
	12/2/2013	<5	<5	<5	<5	<5	<5	0	<5	<5	<10	<5	<5	0.47
	3/21/2014	<5	<5	<5	<5	<5	<5	0	<5	<5	<10	<5	<5	1.3
	6/19/2014	<1	<1	<1	<1	<1	<1	1.2	<1.9	<9.5	<9.5	<1.9	<1.9	1.68
PS-06	9/3/2014	<5	<5	<5	<5	<5	<5	0	<5	<5	<10	<5	<5	0
	11/24/2014	<5	<5	<5	<5	<5	<5	0	<4.9	<4.9	<9.7	<4.9	<4.9	3.1
	4/2/2015	<5	<5	<5	<5	<5	<5	0	<4.7	<4.7	0.59 J	<4.7	<4.7	0.59
	6/17/2015	<5	<5	<5	<5	<5	<5	0	<4.7	<4.7	<9.3	<4.7	<4.7	0
	9/1/2015	<5	<5	<5	<5	<5	<5	13	<4.8	<4.8	<9.6	<4.8	<4.8	0
	11/4/2015	<5	<5	<5	<5	<5	<5	0	<23	<23	<47	<23	<23	0
	3/29/2016	<5	<5	<5	<5	<5	<5	2.3	<4.7	<4.7	<9.5	<4.7	<4.7	0.31
	5/23/2016	<1	<1	1.1	<1	<1	1.6	7.9	<5.1	<5.1	0.67 J	<5.1	<5.1	1.53
	9/7/2016	<5	<5	<5	<5	<5	<5	0	<4.9	<4.9	<9.7	<4.9	<4.9	0
	11/3/2016	<5	<5	<5	<5	<5	<5	0	<4.6	<4.6	<9.3	<4.6	<4.6	0
	2/27/2017	<1	<1	<1	<1	<1	<1	3.6	<4.8	<4.8	<9.7	<4.8	<4.8	0
	6/13/2017	<2	<2	<2	<2	<2	<2	1.2	<5	<5	<10	<5	<5	0
	8/17/2017	<5	<5	<5	<5	<5	<5	0	<25	<25	<50	<25	<25	0
	11/21/2017	<1	<1	<1	<1	<1	<1	1.1	<25	<25	<50	<25	<25	0
	2/27/2018	<1	<1	<1	<1	<1	<1	1	<5	<5	<10	<5	<5	0
	6/11/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	8/21/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	11/13/2018	<5	<5	<5	<5	<5	<5	4.4	<25	<25	<50	<25	<25	0
	3/20/2019	<1	<1	<1	<1	<1	<1	1.1	<5	<5	<10	<5	<5	0.42 J
	5/22/2019	<1	<1	<1	<1	<1	<1	1	<5	<5	0.65 J	<5	<5	0.65 J
	9/5/2019	<1	<2	<2	<2	<2	<2	1.1 J	<5	<5	<10	<5	<5	0

Table 1
Groundwater Data Summary
Area C
Former Buffalo Color Corporation
Buffalo, New York

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
RFI-20A	11/19/2009	130	11	<1	2	7.6	5900	6050.6	<5	<5	<9.9	<5	<5	0
	10/10 - 11/10	ORC-A Application												
	3/24/2011	180	16	<5	<5	120	3000	3316	<24	<24	<47	<24	<24	0
	6/29/2011	130	<50	<50	<50	25 J	5900	6055	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/30/2011	34	3.8	<1	2.3	4.8	1100	1144.9	0.75 J	<5.3	<11	<5.3	<5.3	0.75
	11/25/2011	280	24	<4	<4	4	2100	2408	<4.7	<4.7	<9.4	<4.7	<4.7	0
	3/27/2012	74 J	5	<1	1.8 J	11 J	6600	6691.8	<4.7	<4.7	<9.4	<4.7	<4.7	0
	6/21/2012	<80	<80	<80	<80	<80	6700	6700	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/14/2012	270	<100	<100	<100	<100	8700	8727	<4.8	<4.8	<9.6	<4.8	<4.8	8.7
	12/3/2012	<100	<100	<100	<100	<100	4600	4600	<4.9	<4.9	<9.8	<4.9	<4.9	2.1
	3/26/2013	21	2.1	<1.4	1	280	6500	6804.1	<5	<5	<9.9	<5	<5	2.2
	5/31/2013	<100	<100	<100	<100	410	6400	6863	<4.8	<4.8	<9.6	<4.8	0.66	8.16
	9/5/2013	<100	<100	<100	<100	51	6900	6951	<4.8	<4.8	<9.7	<4.8	<4.8	1.3
	12/2/2013	<100	<100	<100	<100	61	8200	8261	<5	<5	<10	<5	<5	0
	3/20/2014	<100	<100	<100	<100	370	9400	9770	<5	<5	<10	<5	0.39	4.99
	6/18/2014	ORC Application												
	6/19/2014	<100	<100	<100	<100	<100	9600	9600	<1.9	<9.6	<9.6	<1.9	<1.9	12
	9/3/2014	7.3	<5	<5	<5	<5	61	68.3	0.86 J	<5	<10	<5	<5	2.96
	11/24/2014	3.4	<1	<1	<1	<1	28	31.4	<5	<5	<10	<5	<5	3.3
	4/2/2015	0.55 J	<1	<1	<1	1	57	62.45	<4.7	<4.7	<9.5	<4.7	<4.7	0
	6/17/2015	<5	<5	<5	<5	<5	41	41	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/1/2015	<5	<5	<5	<5	<5	32	52	<4.7	<4.7	<9.4	<4.7	<4.7	0
	11/4/2015	<1	<1	<1	<1	<1	41	41	<4.7	<4.7	<9.4	<4.7	<4.7	4.7
	3/30/2016	<1	<1	<1	<1	0.43 J	35	35.43	<4.6	<4.6	<9.3	<4.6	<4.6	0
	5/23/2016	<1	<1	<1	<1	<1	24	27	<4.9	<4.9	<9.8	<4.9	<4.9	0
	9/7/2016	2.7	<1	<1	<1	<1	24	29.98	<4.8	<4.8	<9.6	<4.8	<4.8	0
	11/3/2016	<1	<1	<1	<1	<1	7	7	<4.6	<4.6	<9.2	<4.6	<4.6	0
	2/27/2017	<1	<1	<1	<1	<1	13	13	<4.8	<4.8	<9.6	<4.8	<4.8	0
	6/13/2017	<1	<1	<1	<1	<1	22	22	<5	<5	<10	<5	<5	0
	8/17/2017	<1	<1	<1	<1	<1	25	25	<5	<5	<10	<5	<5	0
	11/21/2017	<1	<1	<1	<1	<1	12	12	<5	<5	<10	<5	<5	4.18
	2/27/2018	<1	<1	<1	<1	<1	15	15	<5	<5	<10	<5	<5	0
	6/11/2018	<1	<1	<1	<1	<1	19	19	<5	<5	<10	<5	<5	0
	8/22/2018	<1	<1	<1	<1	<1	57	60.9	<5	<5	<10	<5	<5	0.35 J
	11/13/2018	<1	<1	<1	<1	<1	24	24.48	<5	<5	<10	<5	<5	0
	3/20/2019	<1	<1	<1	<1	<1	5.9	5.9	<5	<5	<10	<5	<5	0.46 J
	5/22/2019	<1	<1	<1	<1	<1	14	14	<5	<5	<10	<5	<5	0
	9/5/2019	<2	<2	<2	<2	<2	29	29	<5	<5	<10	<5	<5	0

Table 1
Groundwater Data Summary
Area C
Former Buffalo Color Corporation
Buffalo, New York

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dicholorbenzene	1,4-Dicholorbenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	5	50	5	0	1	--
	11/19/2009	1200	8.6 J	1600	110	9.6 J	830	3758.2	7.9	<5.5	<11	<5.5	0.47 J	8.37
	10/10 - 11/10	ORC-A Application												
	3/24/2011	1100	7.1	1000	69	9.5	680	2865.6	3.8 J	<25	<50	<25	<25	3.8
	6/29/2011	330	2	200	15	2.8	180	729.8	0.57 J	<4.8	<9.6	<4.8	<4.8	0.57
	9/30/2011	2000	8.6	340	34	17	1100	3499.6	25 J	<5.4	<11	<5.4	<5.4	25
	11/25/2011	410	<4	180	15	<4	320	925	<4.7	<4.7	<9.4	<4.7	<4.7	0
	3/28/2012	1900	10	960	69	9.7	740	3688.7	0.81	<4.8	2.5 J	<4.8	<4.8	3.31
	6/22/2012	820	4.2	250	22	7.5	470	1573.7	0.87 J	<4.7	2 J	<4.7	<4.7	2.87
	9/17/2012	230	<4	160	11	3 J	180	584	<4.8	<4.8	1.5 J	<4.8	<4.8	6.9
	12/4/2012	250	<4	280	18	<4	120	668	<4.9	<4.9	<9.8	<4.9	<4.9	1.2
	3/27/2013	400	<4	780	22	<4	37	1239	4.5	<4.9	1.4	<4.9	<4.9	8.76
	6/1/2013	400	<10	610	22	<10	200	1239.5	4.1	<4.7	1.4	<4.7	<4.7	7.9
	9/5/2013	610	<10	1300	66	10	610	2596	14	<4.8	1.6	<4.8	<4.8	25.3
	12/3/2013	350	<10	730	32	<10	120	1232	1.3	<5	<10	<5	<5	3.24
	3/21/2014	450	<10	1700	86	6.7	540	2782.7	<5	<5	1.7	<5	0.45	11.22
	6/19/2014	130	<5	390	19	<5	120	664	<2	<9.8	<9.8	<2	<2	0
RFI-31A	9/3/2014	1100	27	<25	<25	<25	97	1224	<5	<5	<10	<5	1.3 J	7.06
	11/24/2014	310	13	5.9	49	2.3 J	65	445.2	1.9 J	<5	<10	<5	<5	8.44
	4/2/2015	84	<25	<25	<25	<25	<25	84	<4.6	<4.6	<9.3	<4.6	<4.6	0
	6/17/2015	670	21 J	<25	24 J	<25	84	799	<4.7	<4.7	<9.4	<4.7	<4.7	0
	9/2/2015	420	15	15	18	<10	91	559	0.61 J	<4.8	<9.6	<4.8	<4.8	0.61
	11/5/2015	1000	35	82	43	<20	140	1300	0.92 J	<4.7	<9.4	<4.7	<4.7	2.32
	3/30/2016	100	4.4	120	14	<2	4.5	244.8	1.4 J	<4.7	0.63 J	<4.7	<4.7	2.03
	5/23/2016	260	10	170	20	<5	20	480	0.93 J	<4.7	<9.4	<4.7	<4.7	0.93
	9/7/2016	710	31	550	55	<25	120	1466	2 J	<4.6	0.64 J	<4.6	<4.6	2.64
	11/3/2016	580	34	700	66	<25	150	1530	2.1 J	<4.6	<9.2	<4.6	<4.6	3.17
	2/28/2017	29	<10	78	<10	<10	<10	126	0.61 J	<4.7	<9.4	<4.7	<4.7	0.61
	6/13/2017	140 J	9.9	220 J	18	<8	55	442.9	0.9 J	<5	<10	<5	<5	0.9
	8/17/2017	110	5	120	10	<10	46	291	1.1 J	<5	<10	<5	<5	1.1
	11/21/2017	450	33	420	55	1.8	150	1110.1	1.2 J	<5	<10	<5	<5	3.21
	2/27/2018	16	<2	8.5	<2	<2	2.1	26.6	0.51 J	<5	<10	<5	<5	0.51
	6/11/2018	540	21	93	19	<10	93	745	0.64 J	<5	<10	<5	<5	0.86
	8/22/2018	130	<10	51	<100	<10	40	221	1.3 J	<5	<10	<5	<5	1.71
	11/13/2018	170	8.1 J	28	<10	<10	18	232.8	<25	<25	<50	<25	<25	0
	3/20/2019	22	<10	<10	<10	<10	<10	22	0.58 J	<5	<10	<5	<5	0.9 J
	5/22/2019	99	<10	63	<10	<10	38	207.7	0.76 J	<5	0.86 J	<5	<5	1.62 J
	9/5/2019	170	7.7	32	6.4	<5	45	265.9	2.1 J	<5	<10	<5	<5	2.1 J

Notes:
* - Sample collected from well PS-05 which was replaced by PS-05A after it was destroyed.
** - Results compared to NYSDEC Class GA water quality standards
B - Compound was found in the blank and sample
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1 - MS/MSD RPD exceeds control limits
Results for VOCs and SVOCs are shown in ug/L.
Blue cells indicate groundwater monitoring events completed prior to the remediation activities.

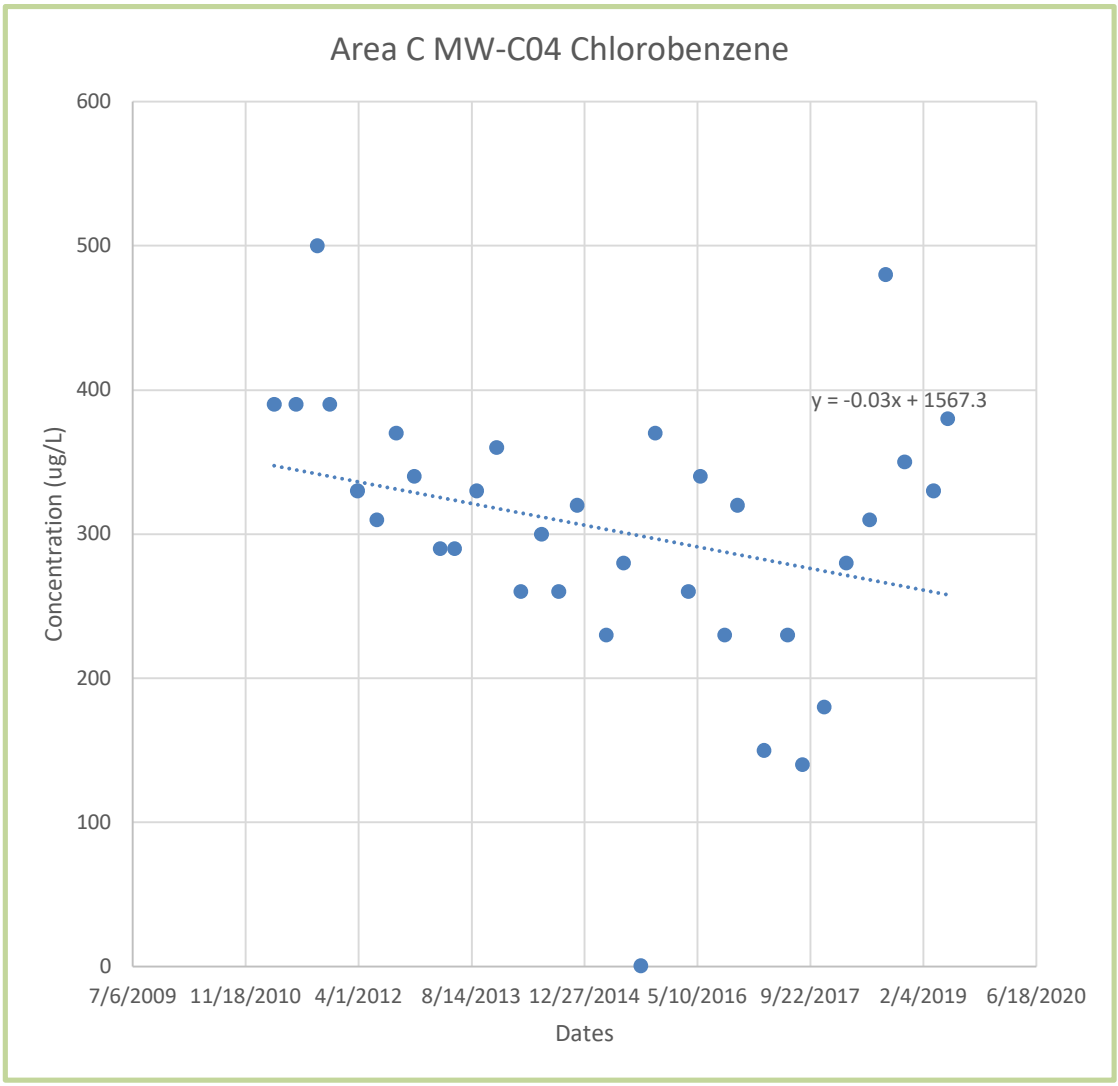
Table 1
Groundwater Data Summary - Metals
Area C
Former Buffalo Color Corporation
Buffalo, New York

Buffalo, New York

		Aluminum	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Vanadium	Zinc	Mercury
Class GA Standard**		0.1	0.025	1	0.005	NS	0.05		0.2	0.3	0.025	35	0.3	0.1	NS	20	NS	5	0.0007
MW-C01	11/13/2018	1.3	<0.015	0.32	0.00075 J	289	0.0076	0.0012 J	0.012	3.0 B	0.019	82.5	0.51 B	0.0066 J	29.9	2480	0.0027 J	0.095	0.00028
	3/20/2019	6.1	0.015	0.56 F1	0.0013 J	757	0.018	0.0087	0.04	12.9	0.061	294	1.6	0.015	43.9	9560	0.012	0.23 B	0.0016
	5/22/2019	5.4	0.011 J	0.86	0.0015 J	1030	0.018	0.011	0.048	17.3	0.22	389	1.7	0.022	33.2 B	11300 B	0.015	0.35	0.0022
	9/5/2019	2.4	0.0089 J	0.44	0.00089 J	667	0.011	0.0022 J	0.017	7.1 B	0.04	259	0.67	0.0077 J	41.3	7560	0.0052	0.11	0.00043
MW-C04	11/13/2018	0.096 J	<0.015	0.63	<0.0020	245	<0.0040	<0.0040	0.0051 J	7.4 B	0.0040 J	31.8	1.1 B	<0.010	10.4	35.9	<0.0050	0.0094 J	<0.00020
	3/20/2019	<0.20	<0.015	0.43	<0.0020	194	<0.0040	<0.0040	0.0027 J	7.8	<0.010	26.6	0.91 B	<0.010	6.6	26.5	<0.0050	0.0059 J	<0.00020
	5/22/2019	0.87	<0.015	0.48	<0.0020	202	0.0018 J	0.00066 J	0.036	7.1	0.0079 J	27.7	0.94	<0.010	8.1 B	32.7 B	0.0018 J	0.038	0.003
	9/4/2019	<0.2	<0.015	0.37	<0.0020	210	<0.0040	<0.0040	.0050J	4.9B	.0056J	25.8	1	<0.0013	9.6	47.5	<0.0015	0.0080J	<0.00012
PS-04A	11/13/2018	0.066 J	<0.015	0.05	0.009	254	0.0011 J	0.0039 J	0.047	0.14 B	<0.010	33.2	0.013 B	0.067	10.2	21.9	<0.0050	0.47	<0.00020
	3/20/2019	<0.20	<0.020	0.03	0.007	186	<0.0040	0.0036 J	0.043	0.087	<0.010	25.3	0.0087 B	0.053	7.3	20.2	<0.0050	0.43	<0.00020
	5/22/2019	<0.20	<0.015	0.033	0.0065	178	<0.0040	0.0088	0.064	0.063	<0.010	30.1	0.013	0.07	7.5 B	18.8 B	<0.0050	0.43	<0.00020
	9/4/2019	No sample collected, well damaged																	
PS-05A	11/13/2018	0.063J	0.18	0.02	<0.0020	268	<0.0040	0.0013 J	<0.010	31.0 B	<0.010	25.7	0.38 B	0.0031 J	15.7	109	<0.0050	0.028	<0.00020
	3/20/2019	0.31	0.032	0.014	<0.0020	196	<0.0040	<0.0040	0.0017 J	8	0.01	21.7	0.21 B	00014 J	10.1	99.6	<0.0050	0.056	<0.00020
	5/22/2019	<0.20	0.068	0.016	<0.0020	213	<0.0040	<0.0040	<0.010	17.1	<0.010	23	0.25	<0.010	12.4 B	99.7 B	<0.0050	0.015	<0.00020
	9/5/2019	<0.20	0.27	0.023	<0.0020	239	<0.0040	0.0026 J	0.0028 J	17.1 B	0.0055 J	22.2	0.45	0.0029 J	14.4	83.7	<0.0050	0.086	<0.00020
PS-06	11/13/2018	0.13 J	0.097	0.012	<0.0020	226	0.0018 J	<0.0040	<0.010	41.8 B	<0.010	9.7	<0.19 B	0.0030 J	62.1	64.9	<0.0050	0.0097 J	<0.00020
	3/20/2019	0.064 J	0.064	0.0086	<0.0020	212	<0.0040	<0.0040	<0.010	33.6	<0.010	9.9	0.16 B	<0.010	43.7	37.8	<0.0050	0.0038 J	<0.00020
	5/22/2019	<0.20	0.063	0.0081	<0.0020	188	<0.0040	<0.0040	<0.010	26.5	<0.010	8.8	0.15	<0.010	42.9 B	35.8 B	<0.0050	<0.010	<0.00020
	9/5/2019	0.089 J	<0.015	0.36	<0.0020	203	<0.0040	<0.0040	0.0064 J	4.8 B	0.0056 J	24.9	0.98	<0.010	9.5	43.3	<0.0050	0.0074 J	<0.00020
RFI-20A	11/13/2018	0.077 J	<0.015	0.067	<0.0020	236	<0.0040	<0.0040	<0.010	5.9 B	<0.010	22.3	0.36 B	0.0035 J	8.9	28.3	<0.0050	<0.0092 J	<0.00020
	3/20/2019	<0.20	<0.015	0.041	<0.0020	119	<0.0040	<0.0040	<0.010	8.2	<0.010	13.3	0.31 B	0.0015 J	4.3	20.4	0.0017 J	0.0081 J	<0.00020
	5/22/2019	<0.20	<0.015	0.048	<0.0020	148	<0.0040	<0.0040	<0.010	4.5	<0.010	16.7	0.28	0.0053	6.4 B	22.2 B	<0.0015	0.0031 J	<0.00020
	9/5/2019	<0.20	0.083	0.012	<0.0020	217	<0.0040	<0.0040	<0.0017 J	33.0 B	0.0059 J	9.4	0.18	<0.010	52.5	60.4	<0.0050	0.014	<0.00020
RFI-31A	11/13/2018	0.13 J	<0.015	0.022	0.00081 J	355	0.0017 J	0.0028 J	<0.010	0.71	<0.010	114	1.4	0.0054 J	15.6	1960	<0.0050	0.0099 J	<0.00020
	3/20/2019	<0.20	<0.015	0.02	<0.0020	424	<0.0040	0.0029 J	0.0019 J	0.67	<0.010	150	1.5 B	0.0043 J	14.2	2330	<0.0050	0.0065J	0.00012 J
	5/22/2019	<0.20	<0.015	0.018	<0.0020	392	<0.0040	0.0028 J	0.0026 J	1.1	<0.010	147	1.3	0.0036 J	11.2 B	1990 B	<0.0050	0.0033 J	0.00032
	9/5/2019	<0.20	<0.015	0.018	<0.0020	336	<0.0040	0.0025 J	0.0026	0.51 B	0.0030 J	112	1.5	0.0032 J	20	1990	<0.0050	0.0058 J	<0.00020

Notes:
* - Sample collected from well PS-05 which was replaced by PS-05A after it was destroyed.
** - Results compared to NYSDEC Class GA water quality standards
B - Compound was found in the blank and sample
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1 - MS/MSD RPD exceeds control limits
Results for VOCs and SVOCs are shown in ug/L. Metals in mg/L.

Table 2
MW-C04 Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



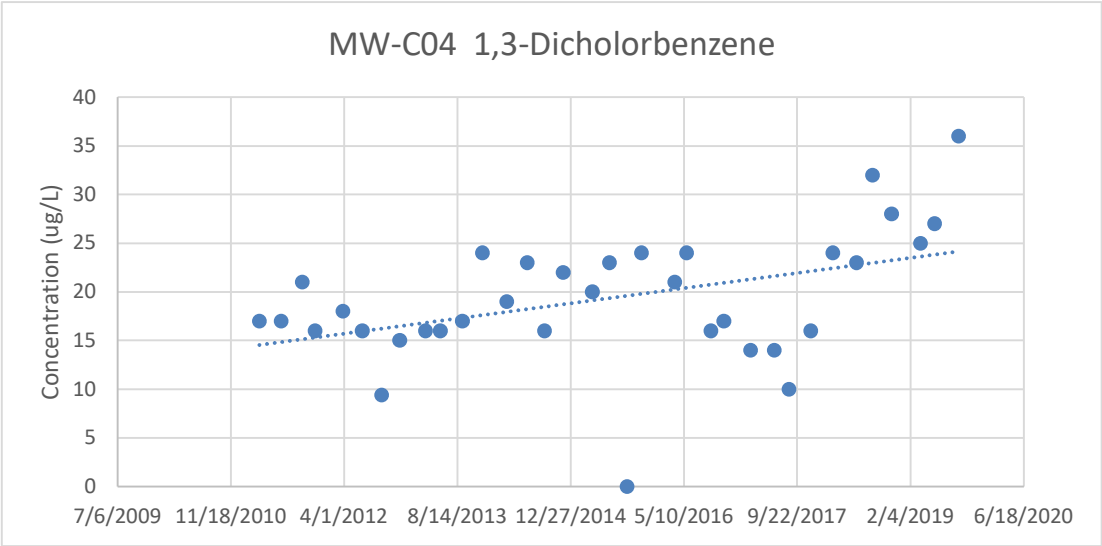
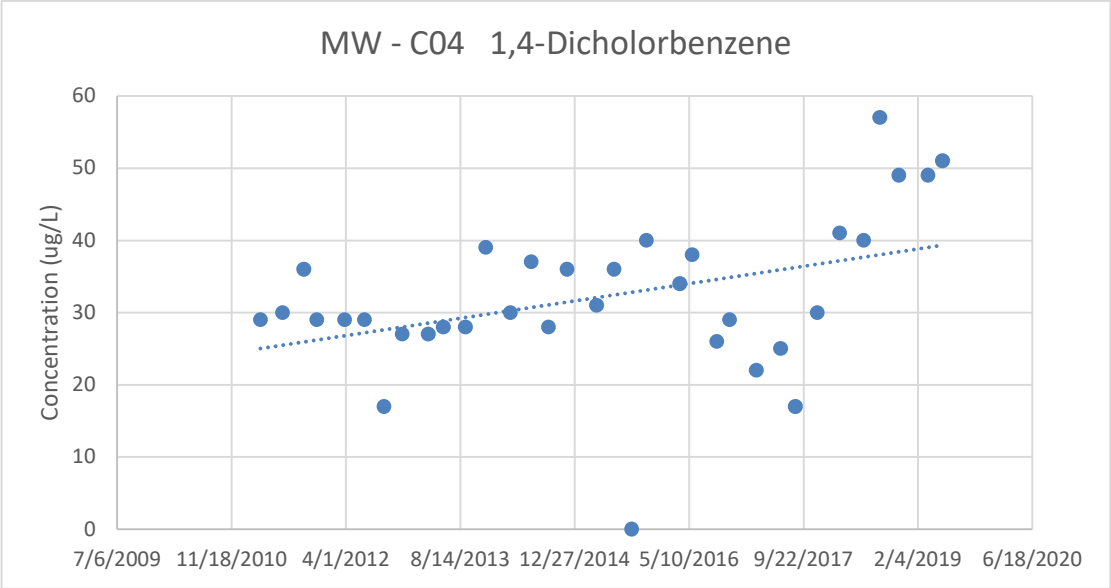


Table 2
MW-C04 Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



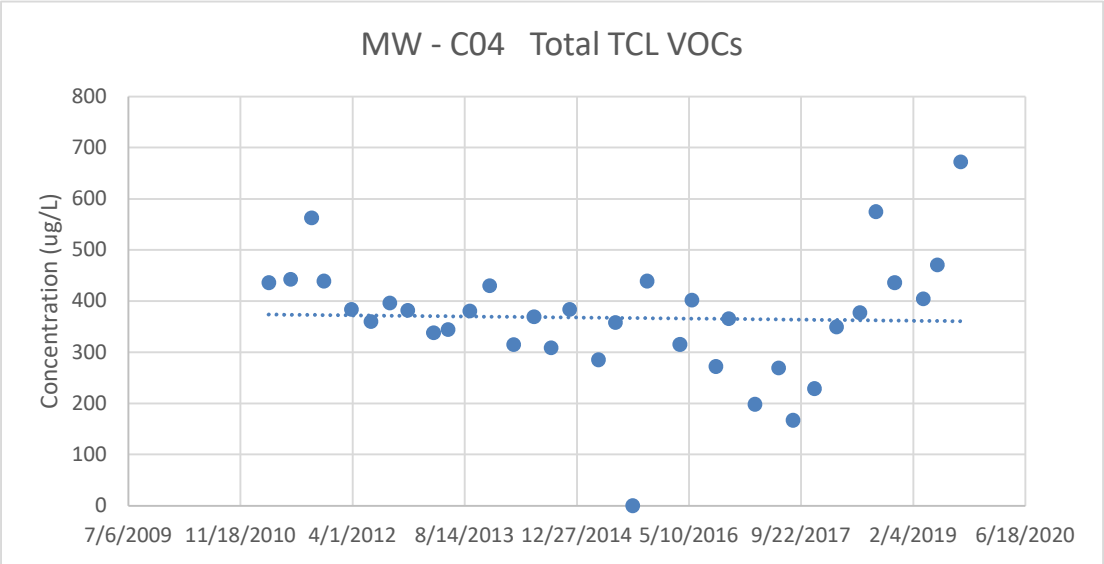
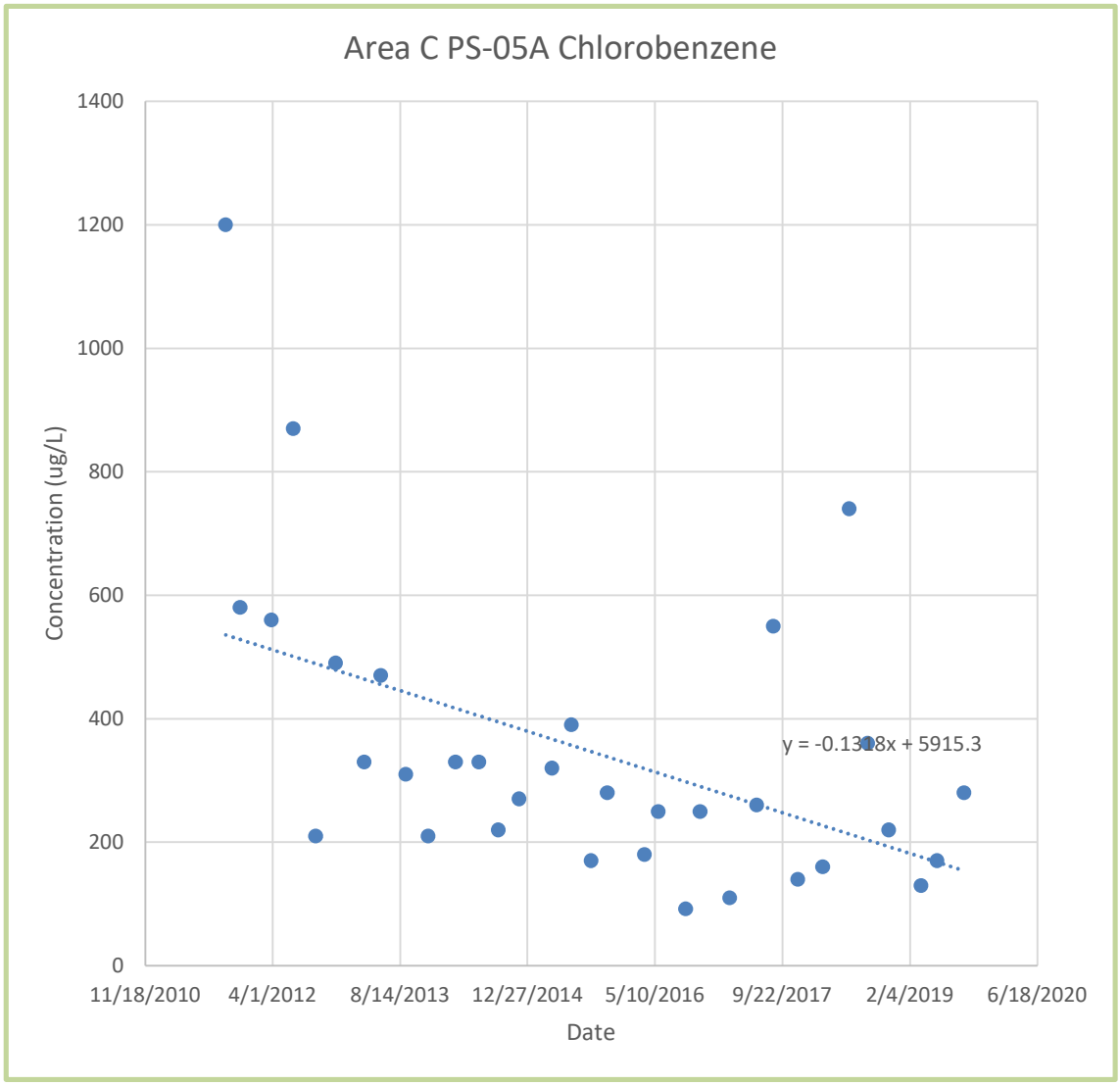


Table 2 (continued)
Monitoring Well PS-05S Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



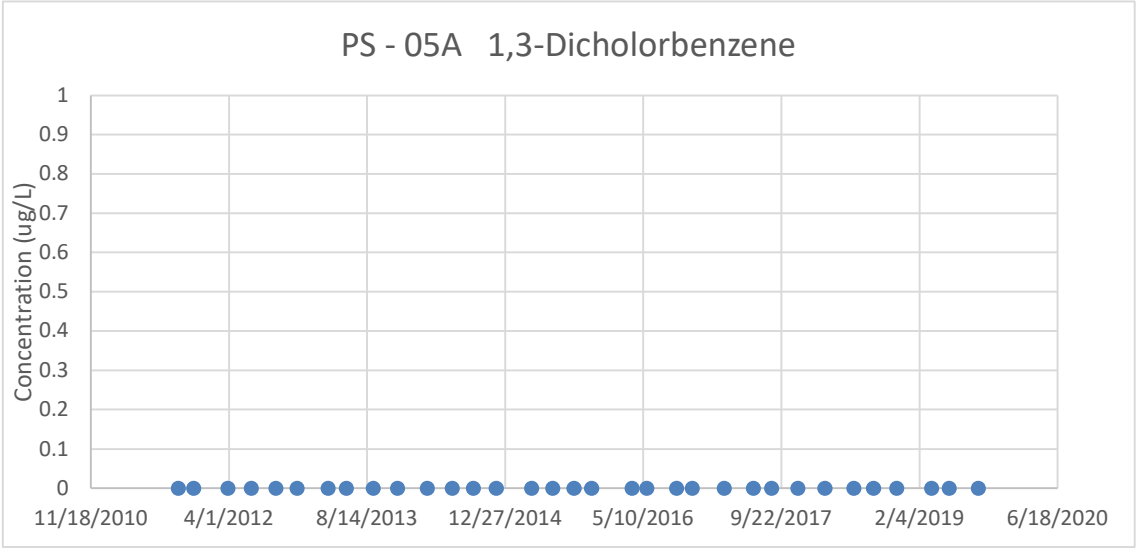
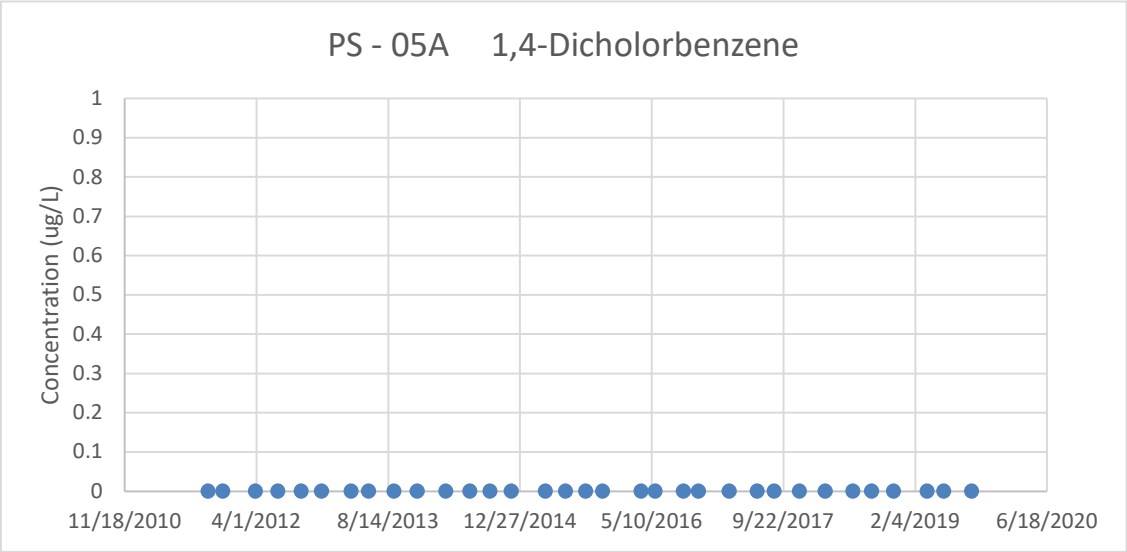


Table 2 (continued)
Monitoring Well PS-05S Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



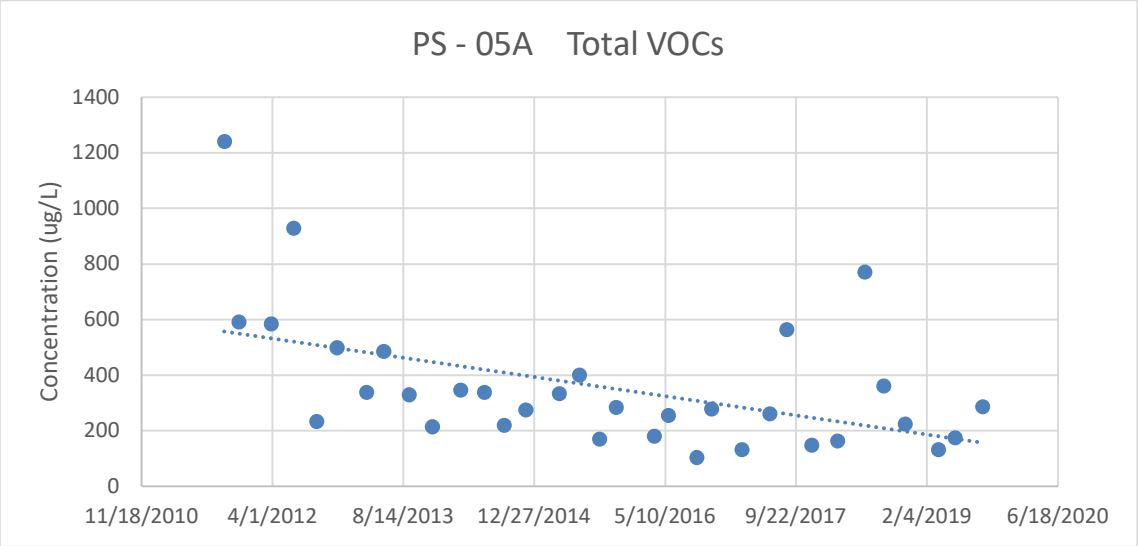


Table 2 (continued)
Monitoring Well PS-05S Trend Graphs
Area C
Former Buffalo Color Corporation
Buffa

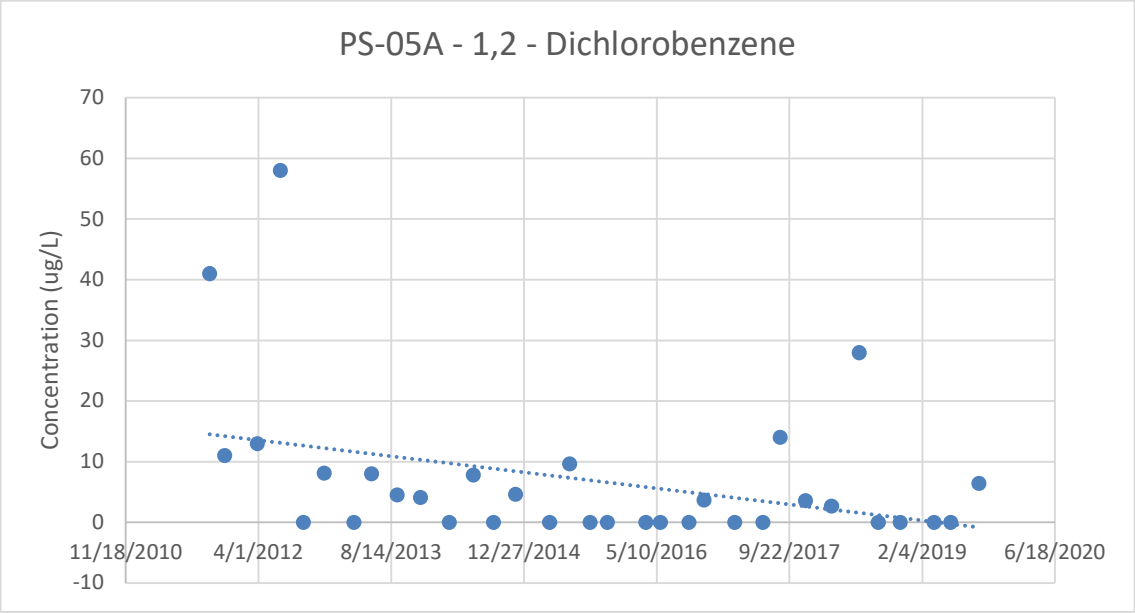
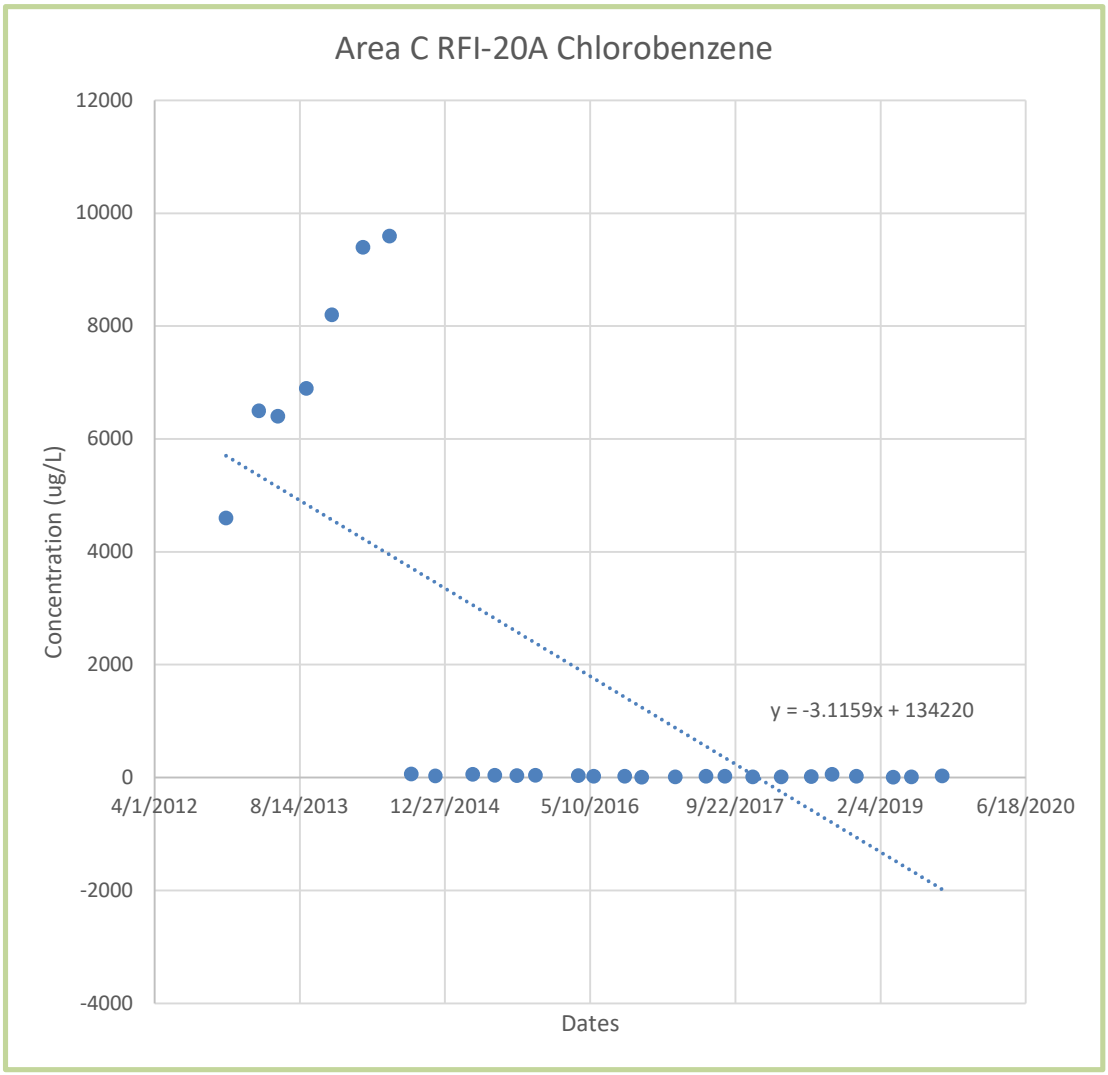


Table 2 (continued)
Monitoring Well RFI-20A Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



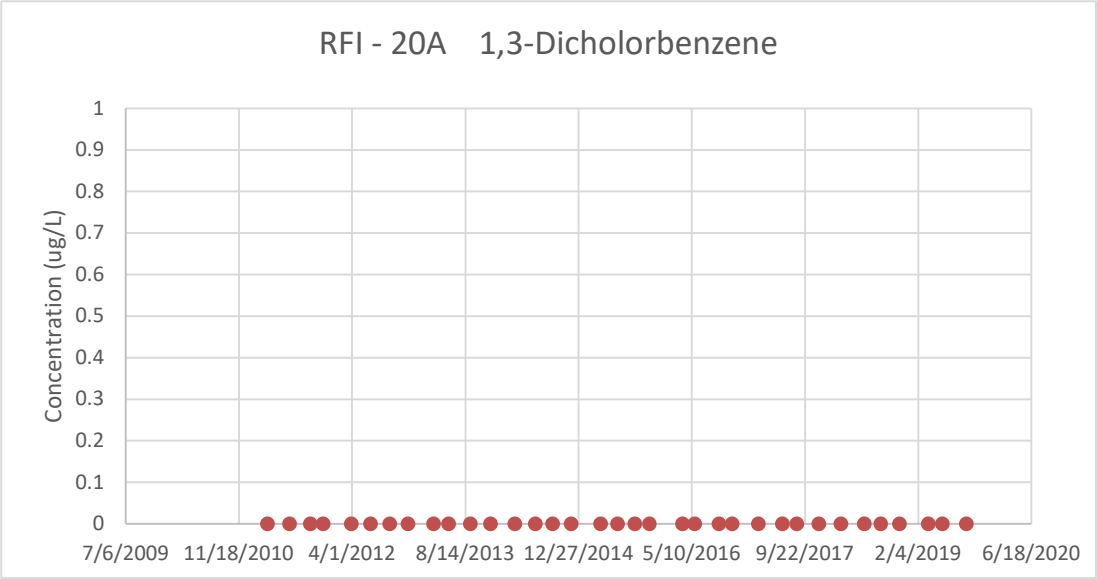
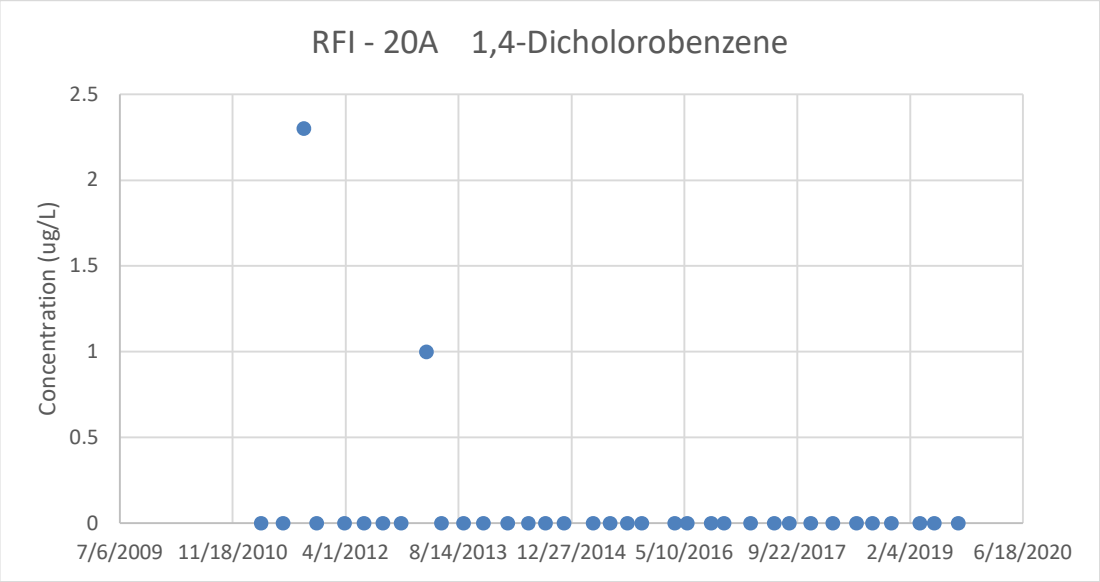


Table 2 (continued)
Monitoring Well RFI-20A Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



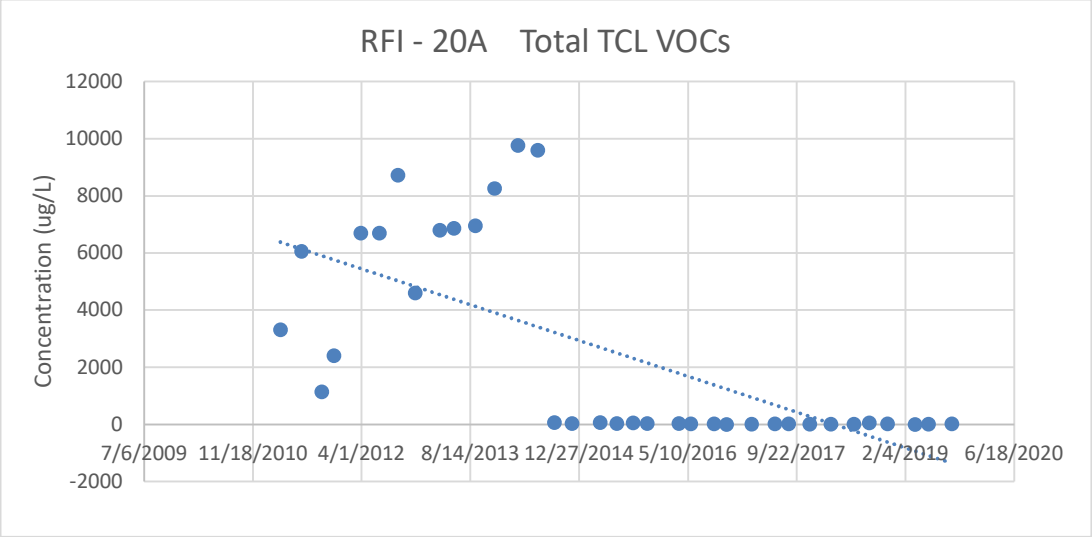


Table 2 (continued)
Monitoring Well RFI-31A Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York

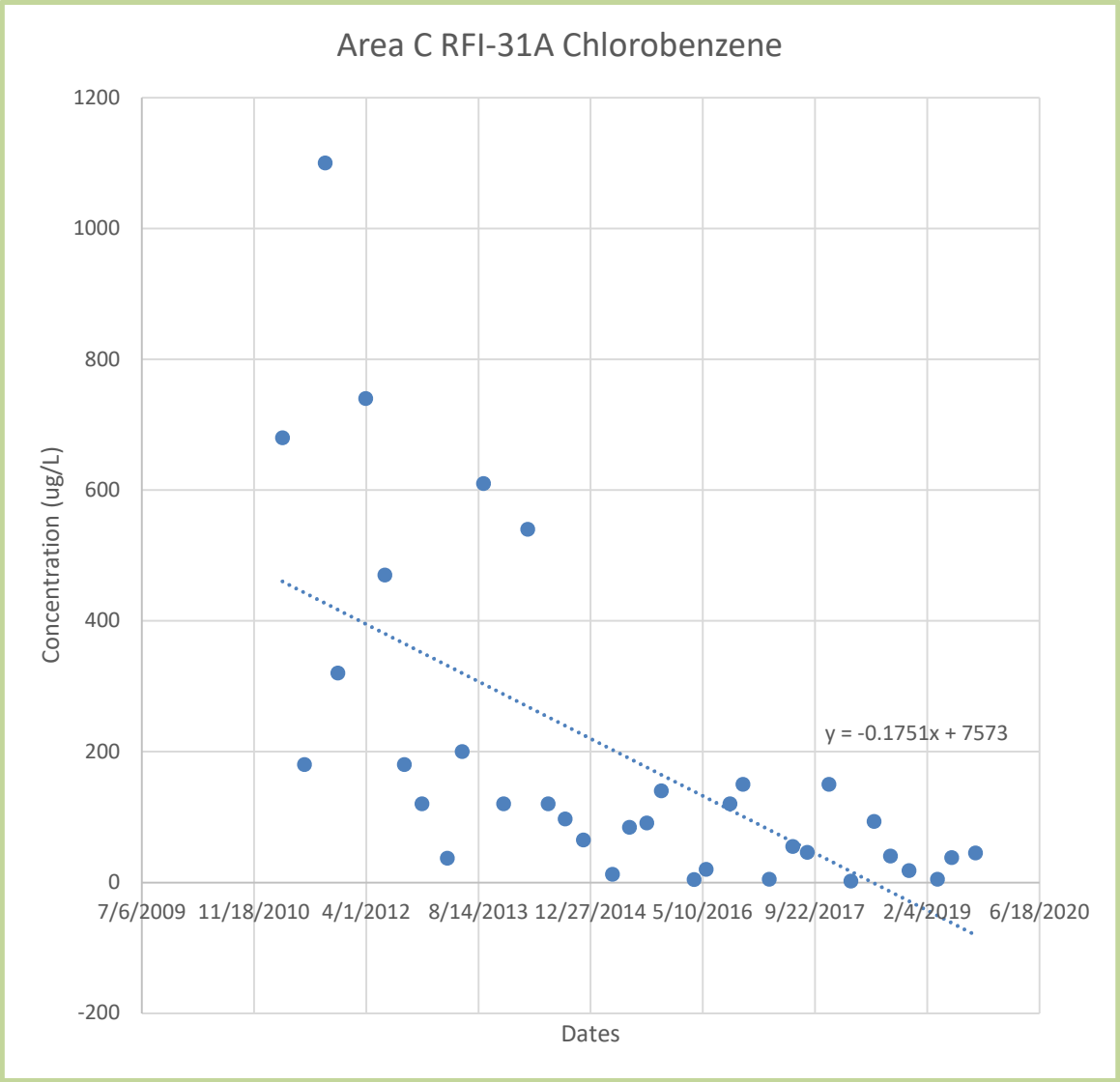
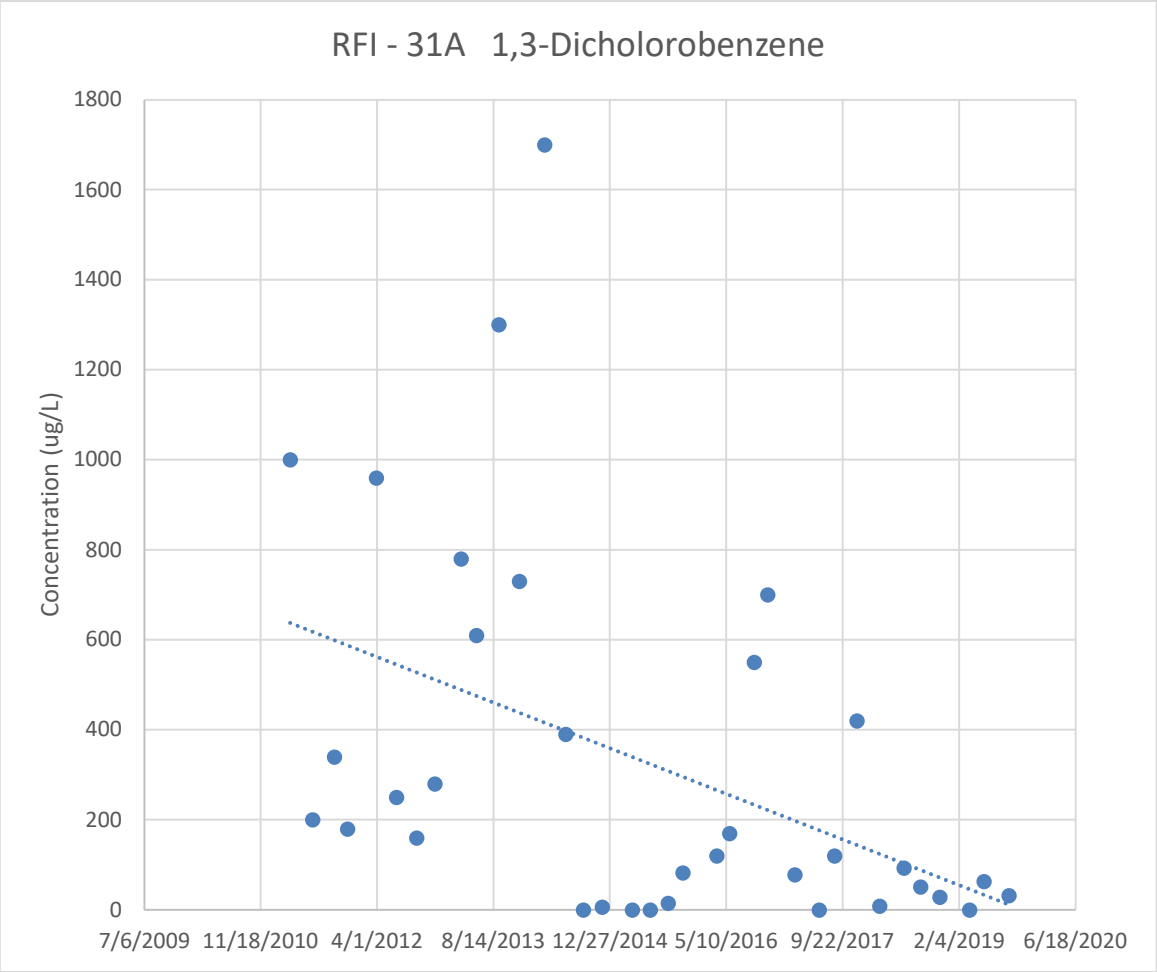


Table 2 (continued)
Monitoring Well RFI-31A Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



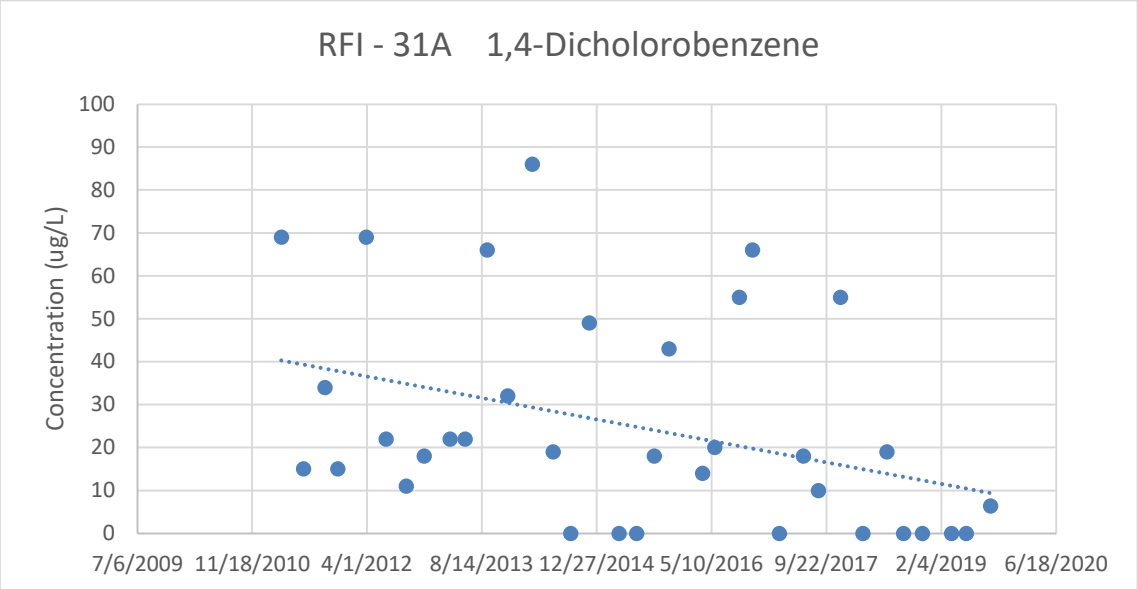
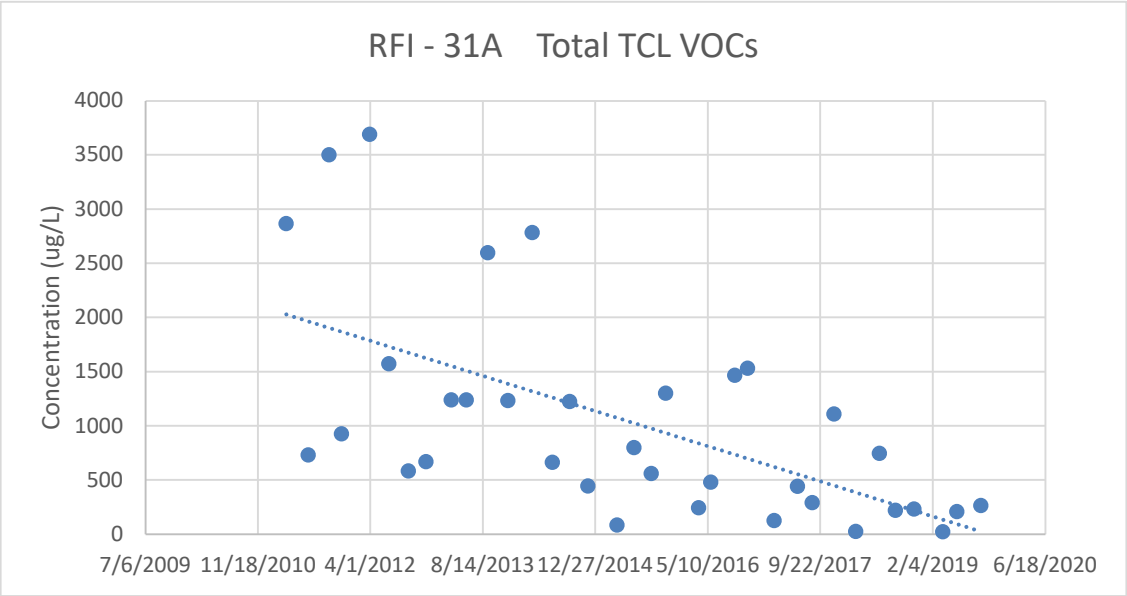


Table 2 (continued)
Monitoring Well RFI-31A Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo, New York



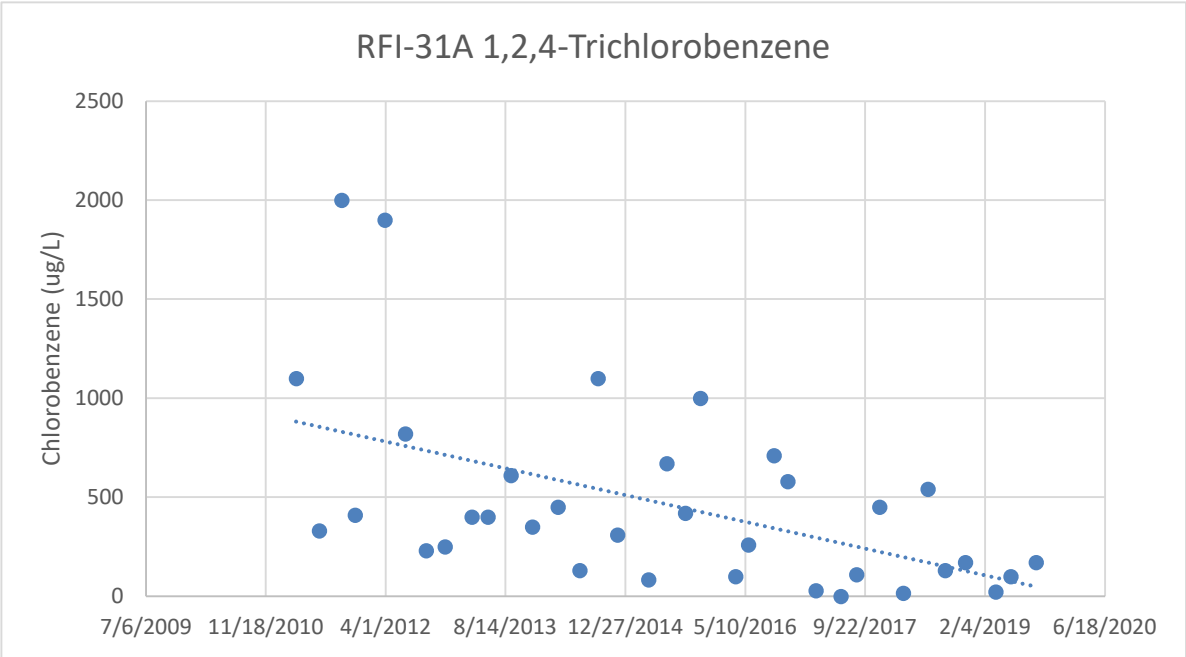


Table 2 (continued)
Monitoring Well RFI-31A Trend Graphs
Area C
Former Buffalo Color Corporation
Buffalo,

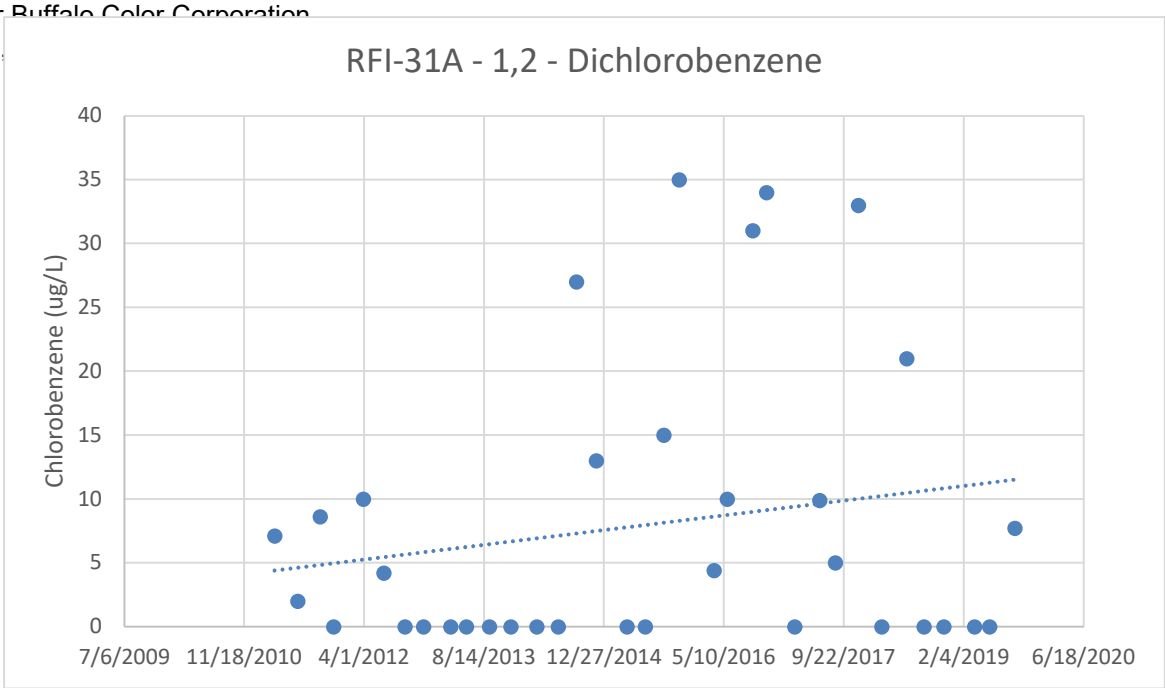


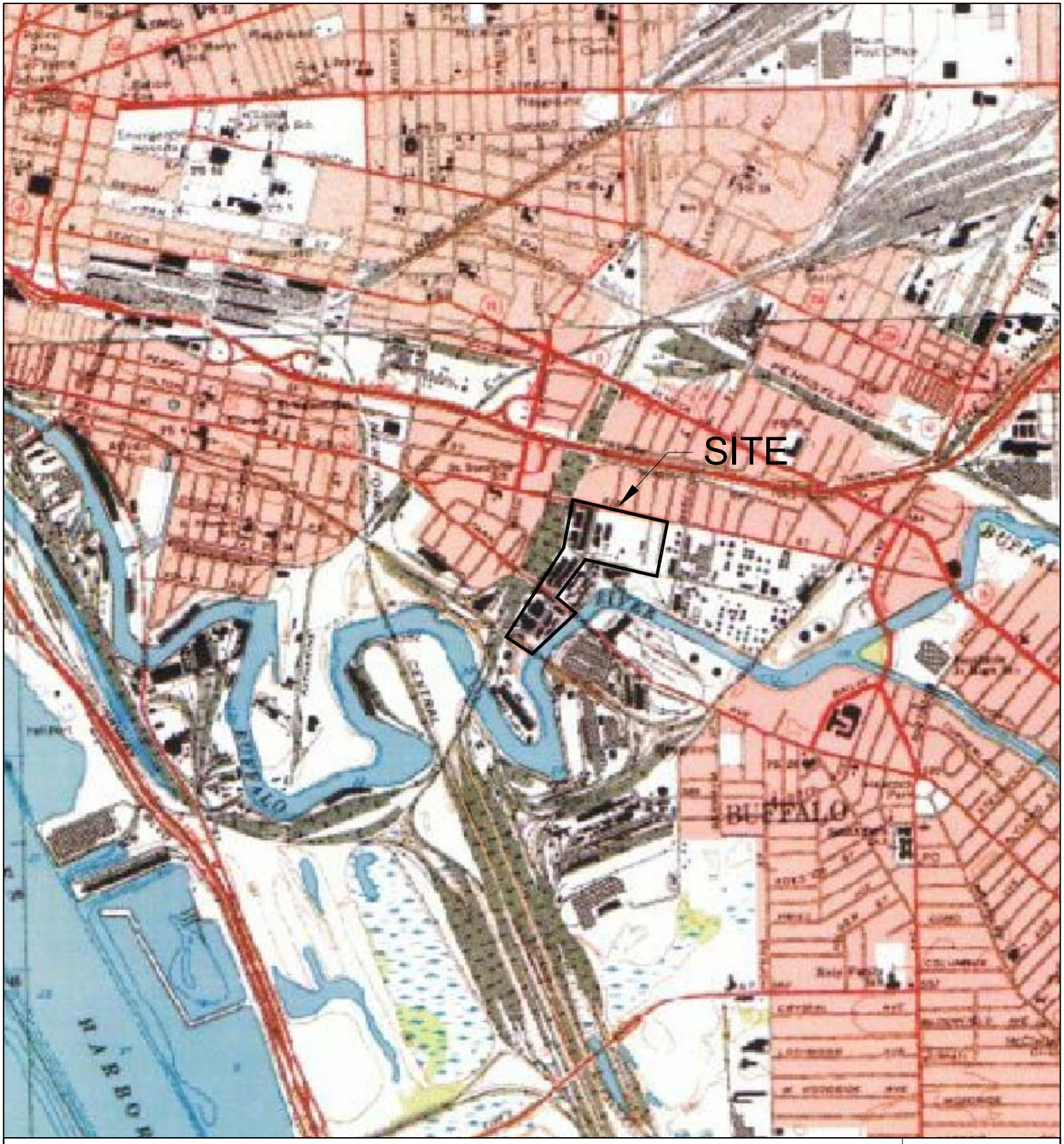
Table 3
Groundwater Elevation Data
Area C
Former Buffalo Color Corproarion
Buffalo, New York

Sample Event Quarter	Area	Well ID	Water Level Measurement Date	Casing Elevation	Static Depth To Water (ft)	Depth To NAPL Layer (ft)	Elevation
4Q	AREA.C	MW-C01	10/30/2018	587.93	5.80	ND	582.13
4Q	AREA.C	MW-C04	10/30/2018	585.11	6.02	ND	579.09
4Q	AREA.C	PS-04	10/30/2018	589.14	7.98	ND	581.16
4Q	AREA.C	PS-05A	10/30/2018	588.84	4.97	ND	583.87
4Q	AREA.C	PS-06	10/30/2018	587.71	5.34	ND	582.37
4Q	AREA.C	RFI-20	10/30/2018	588.68	5.25	ND	583.43
4Q	AREA.C	RFI-31	10/30/2018	586.37	5.28	ND	581.09
1Q	AREA.C	MW-C01	2/20/2019	587.93	6.82	ND	581.11
1Q	AREA.C	MW-C04	2/20/2019	585.11	5.69	ND	579.42
1Q	AREA.C	PS-04A	2/20/2019	589.14	7.15	ND	581.99
1Q	AREA.C	PS-05A	2/20/2019	588.84	5.51	ND	583.33
1Q	AREA.C	PS-06	2/20/2019	587.71	5.00	ND	582.71
1Q	AREA.C	RFI-20	2/20/2019	588.68	5.12	ND	583.56
1Q	AREA.C	RFI-31	2/20/2019	586.37	4.73	ND	581.64
2Q	AREA.C	MW-C01	5/9/2019	587.93	6.31	ND	581.62
2Q	AREA.C	MW-C04	5/9/2019	585.11	5.70	ND	579.41
2Q	AREA.C	PS-04A	5/9/2019	589.14	7.15	ND	581.99
2Q	AREA.C	PS-05A	5/9/2019	588.84	5.32	ND	583.52
2Q	AREA.C	PS-06	5/9/2019	587.71	5.10	ND	582.61
2Q	AREA.C	RFI-20	5/9/2019	588.68	5.50	ND	583.18
2Q	AREA.C	RFI-31	5/9/2019	586.37	5.31	ND	581.06
3Q	AREA.C	MW-CO1	8/20/2019	587.93	7.01	ND	580.92
3Q	AREA.C	MW-CO4	8/20/2019	585.11	6.15	ND	578.96
3Q	AREA.C	PS-04A	8/20/2019	589.14		ND	589.14
3Q	AREA.C	PS-05A	8/20/2019	588.84	7.68	ND	581.16
3Q	AREA.C	PS-06	8/20/2019	587.71	6.77	ND	580.94
3Q	AREA.C	RFI-20	8/20/2019	588.68	7.05	ND	581.63
3Q	AREA.C	RFI-31	8/20/2019	586.37	2.43	ND	583.94

Table 4
Inspection Records
Area C
Former Buffalo Color Corporation
Buffalo, New York

Pre-Inspection Data										Area C Cover System & Site-Wide Compliance Inspection										
			Weather					Site Conditions		Cover System (OK / Comment)						Site-Wide Compliance (OK / Comment)				
Date	Associate(s)	NYSDEC Invitation Extended (Yes / No / List Attendees)	Cloud Cover (Clear / Pt. Cloudy / Overcast)	Precipitation (None / Rain / Snow / Hail)	Lightning (Yes / No)	Wind (Calm / Moderate / Strong)	Temperature Range (+/- 10 Deg F Range)	Ground Surface (Dry / Damp / Wet)	Standing Snow & Ice (LOW: 1" or less / MID: 1" to 12" / HI: 12" or more)	Area C Soil Cover Integrity	Area C Grass / Vegetation	Area C Gravel Cover Integrity	Area C Outdoor Paved Areas	Area C Occupied Basement Slabs	Area C Storm Drainage System & Structures	Area C Groundwater Monitoring Program	Area C Site Records	Area C Active Site Permits	Area C O&M Schedule	Area C Institutional Site Use Restrictions	Area C Additional Notes
Mon 6/4/2018	Tom Wagner	YES- GENE, Dave	Pt. Cloudy	None	No	Calm	40	Wet	Low	OK	OK	OK	OK	None	OK	OK	OK	None	OK	OK	Re-hab work for Bldg's on Hold
Wed 9/12/2018	Tom Wagner	No	Clear	None	No	Moderate	68	Dry	Low	OK	OK	OK	OK	None	OK	OK	OK	None	OK	OK	Work on Bldg's on Hold
Tue 11/13/2018	Tom Wagner	No	Pt. Cloudy	None	No	Moderate	36	Damp	Low	OK	OK	OK	OK	None	OK	OK	OK	None	OK	OK	Work on Bldg's on Hold
Tue 2/5/2019	Tom Wagner	No	Pt. Cloudy	None	No	Calm	24	Damp	MID	OK	Dormant	OK	OK	None	OK	OK	OK	None	OK	OK	Demolition work on Old Ice House Bldg.
Wed 5/15/2019	Tom Wagner	No	Overcast	None	No	Moderate	60	Damp	Low	OK	Spring, Wet	OK	OK	None	OK	OK	OK	None	OK	OK	
Mon 8/19/2019	Tom Wagner	Yes	Clear	None	No	Calm	84	Dry	None	OK	OK	OK	OK	None	OK	OK	OK	Yes	OK	OK	Work on Power House Bldg

Figures



SCALE 1:24000

1 0.5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0.5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

BUFFALO SE QUADRANGLE

N

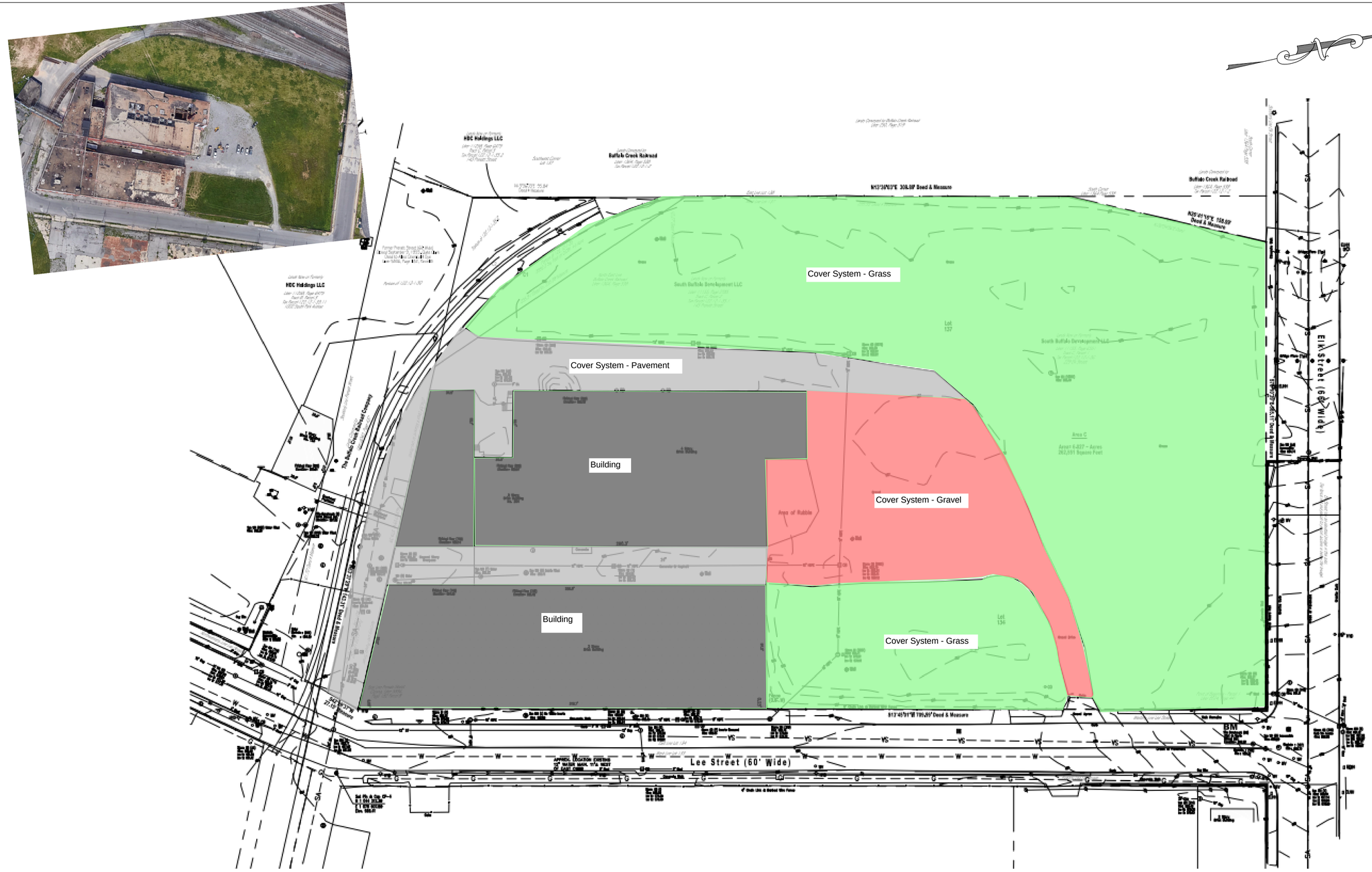
FILE: P:\PROJECTS\Managed\Buffalo NY\Buffalo Color Areas ABCE\3410070582 ? Buffalo Color Redevelopment\CADD\FINAL\AutoCAD Figs-Alternatives Analysis Report(8-08)

PROJECT NUMBER:	3410070582
DRAWING NUMBER:	A01.DWG
DATE:	2-20-2008
DRAWN BY:	WS
APPROVED BY:	JMS

MACTEC Engineering & Consulting Inc.
700 North Bell Avenue Suite 200
Pittsburgh, PA 15106

SITE LOCATION MAP
BUFFALO COLOR AREAS ABCE
BUFFALO, NY

FIGURE 1



D

1" = 40'

100' 50' 0' 100'

DRAWING BY	
CHECKED	
APPROVED	

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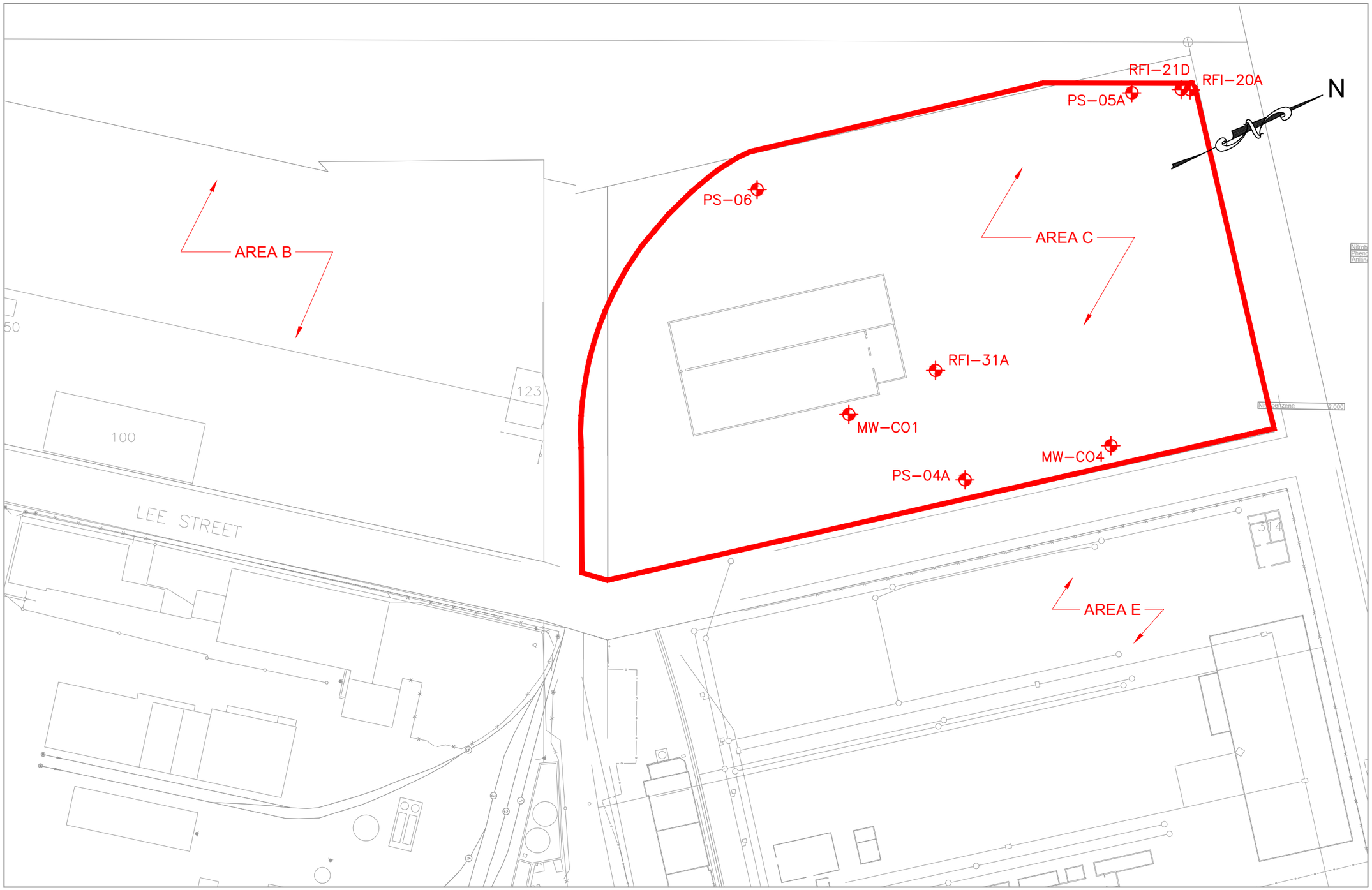
SITE PLAN

BUFFALO COLOR AREA - C
SOUTH BUFFALO DEVELOPMENT
BUFFALO, NEW YORK

INVENTUM ENGINEERING
481 CARLISLE DRIVE
SUITE 202
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 2

DRAWING NUMBER



B

1" = 100'

100' 50' 0' 100'

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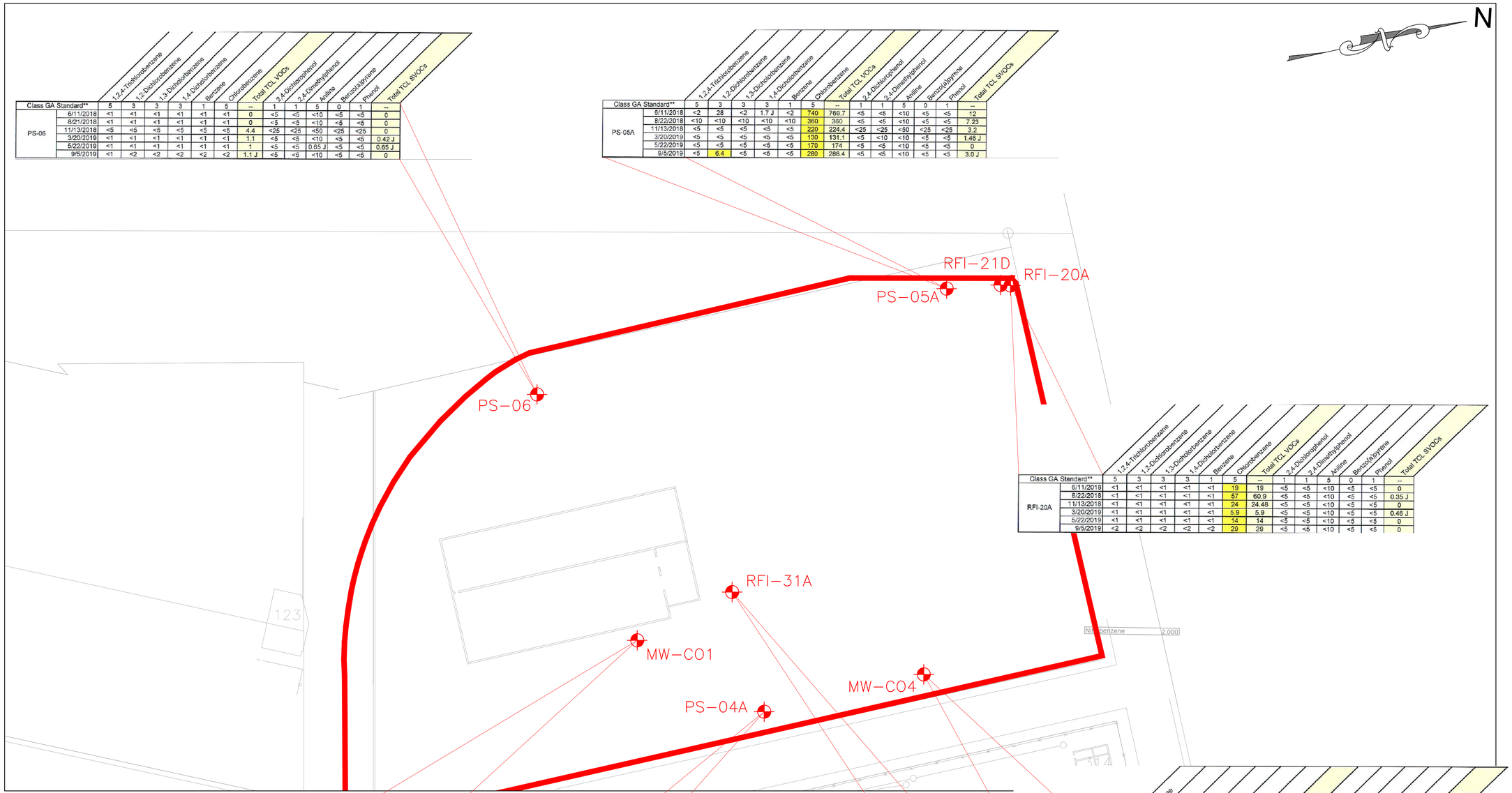
GROUNDWATER
MONITORING EVENT
BUFFALO COLOR AREA - C
BUFFALO, NEW YORK

INVENTUM ENGINEERING
481 CARLISLE DRIVE
SUITE 202
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 3

DRAWING NUMBER



		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
PS-06	6/11/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	8/21/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	11/13/2018	<5	<5	<5	<5	<5	<5	4.4	<25	<25	<50	<25	<25	0
	3/20/2019	<1	<1	<1	<1	<1	<1	1.1	<5	<5	<10	<5	<5	0.42 J
	5/22/2019	<1	<1	<1	<1	<1	<1	1	<5	<5	0.65 J	<5	<5	0.65 J
	9/5/2019	<1	<2	<2	<2	<2	<2	1.1 J	<5	<5	<10	<5	<5	0

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
PS-05A	8/11/2018	<2	28	<2	1.7 J	<2	740	769.7	<5	<5	<10	<5	<5	12
	8/22/2018	<10	<10	<10	<10	<10	360	360	<5	<5	<10	<5	<5	7.23
	11/13/2018	<5	<5	<5	<5	<5	220	224.4	<25	<25	<50	<25	<25	3.2
	3/20/2019	<5	<5	<5	<5	<5	130	131.1	<5	<10	<10	<5	<5	1.46 J
	5/22/2019	<5	<5	<5	<5	<5	170	174	<5	<5	<10	<5	<5	0
	9/5/2019	<5	6.4	<5	<5	<5	280	286.4	<5	<5	<10	<5	<5	3.0 J

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
RFI-20A	6/11/2018	<1	<1	<1	<1	<1	19	19	<5	<5	<10	<5	<5	0
	8/22/2018	<1	<1	<1	<1	<1	57	60.9	<5	<5	<10	<5	<5	0.35 J
	11/13/2018	<1	<1	<1	<1	<1	24	24.48	<5	<5	<10	<5	<5	0
	3/20/2019	<1	<1	<1	<1	<1	5.9	5.9	<5	<5	<10	<5	<5	0.46 J
	5/22/2019	<1	<1	<1	<1	<1	14	14	<5	<5	<10	<5	<5	0
	9/5/2019	<2	<2	<2	<2	<2	29	29	<5	<5	<10	<5	<5	0

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
MW-C04	6/11/2018	<2	4.4	23	40	<2	310	377.4	3.3 J	<5	<10	<5	<5	5.4
	8/21/2018	<5	5.4	32	57	<5	480	574.4	5.0	<5	0.99 J	<5	<5	7.4
	11/13/2018	<10	<10	28	49	<10	350	435.8	<10	<5	1.0 J	<5	<5	2.8
	3/20/2019	<10	<10	25	49	<10	330	404	0.54 J	<5	<10	<5	<5	3.02
	5/22/2019	<10	<10	27	51	5.0 J	*380 F1*	470.7	2.7 J	<10	<5	<5	<5	3.5 J

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
MW-C01	6/11/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	0.82 J	<5	8.57
	8/21/2018	<2	<2	<2	<2	<2	<2	0	<5	<5	<10	<5	<5	11.4
	11/13/2018	<2	<2	<2	<2	<2	<2	2.1	<50	<25	<50	<25	<25	0
	3/20/2019	<4	<4	<4	<4	<4	<4	0	<5	<5	<10	0.72 J	<5	6.08 J
	5/22/2019	<2	<2	<2	<2	<2	<2	0.91 J	<25	<25	<50	2.4 J	<25	20.1 J
	9/5/2019	0.94 J	<2	3.4	<2	<2	<2	5.03	<25	<25	<50	<25	<25	3.7 J

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
PS-04A	6/11/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	11/13/2018	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	3/20/2019	<1	<1	<1	<1	<1	<1	0	<10	<5	<10	<5	<5	0.47 J
	5/22/2019	<1	<1	<1	<1	<1	<1	0	<5	<5	<10	<5	<5	0
	9/4/2019	<10	<10	36	76	<10	*560 F1*	672	5.6	<5	0.54 J	<5	<5	7.15

		1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Total TCL VOCs	2,4-Dichlorophenol	2,4-Dimethylphenol	Aniline	Benzo(a)pyrene	Phenol	Total TCL SVOCs
Class GA Standard**		5	3	3	3	1	5	--	1	1	5	0	1	--
RFI-31A	6/11/2018	540	21	93	19	<10	93	745	0.64 J	<5	<10	<5	<5	0.86
	8/22/2018	130	<10	51	<100	<10	40	221	1.3 J	<5	<10	<5	<5	1.71
	11/13/2018	170	8.1 J	28	<10	<10	18	232.8	<25	<25	<50	<25	<25	0
	3/20/2019	22	<10	<10	<10	<10	<10	22	0.58 J	<5	<10	<5	<5	0.9 J
	5/22/2019	99	<10	63	<10	<10	38	207.7	0.76 J	<5	0.86 J	<5	<5	1.62 J
	9/5/2019	170	7.7	32	6.4	<5	45	265.9	2.1 J	<5	<10	<5	<5	2.1 J

D

1" = 50'

100' 50' 0' 100'

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GROUNDWATER DATA
GROUNDWATER MONITORING EVENT
BUFFALO COLOR AREA - C
BUFFALO, NEW YORK

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FIGURE 4

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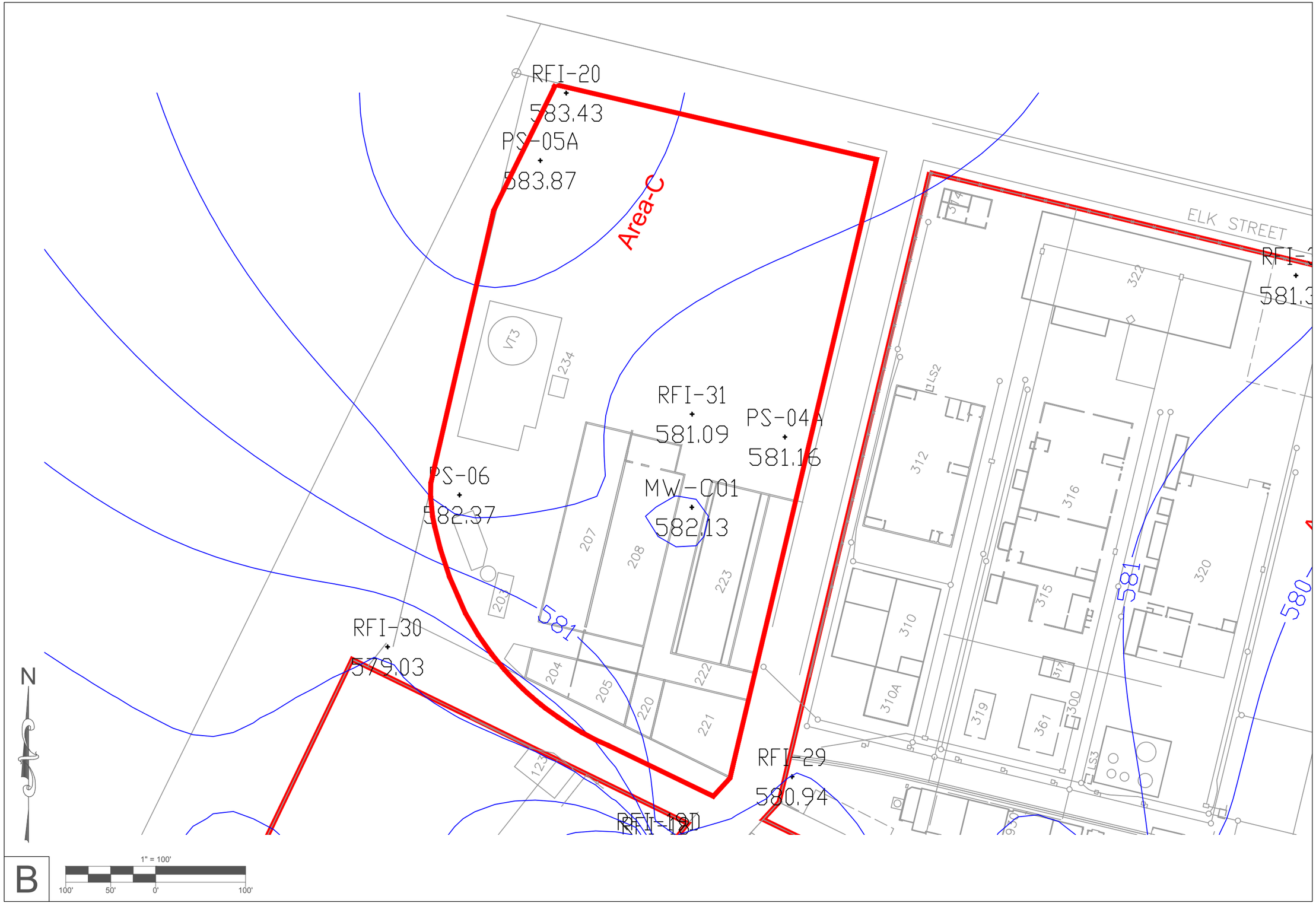

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FOURTH QUARTER 2018
GROUNDWATER ELEV CONTOURS
BUFFALO COLOR AREA-C

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FIGURE 4

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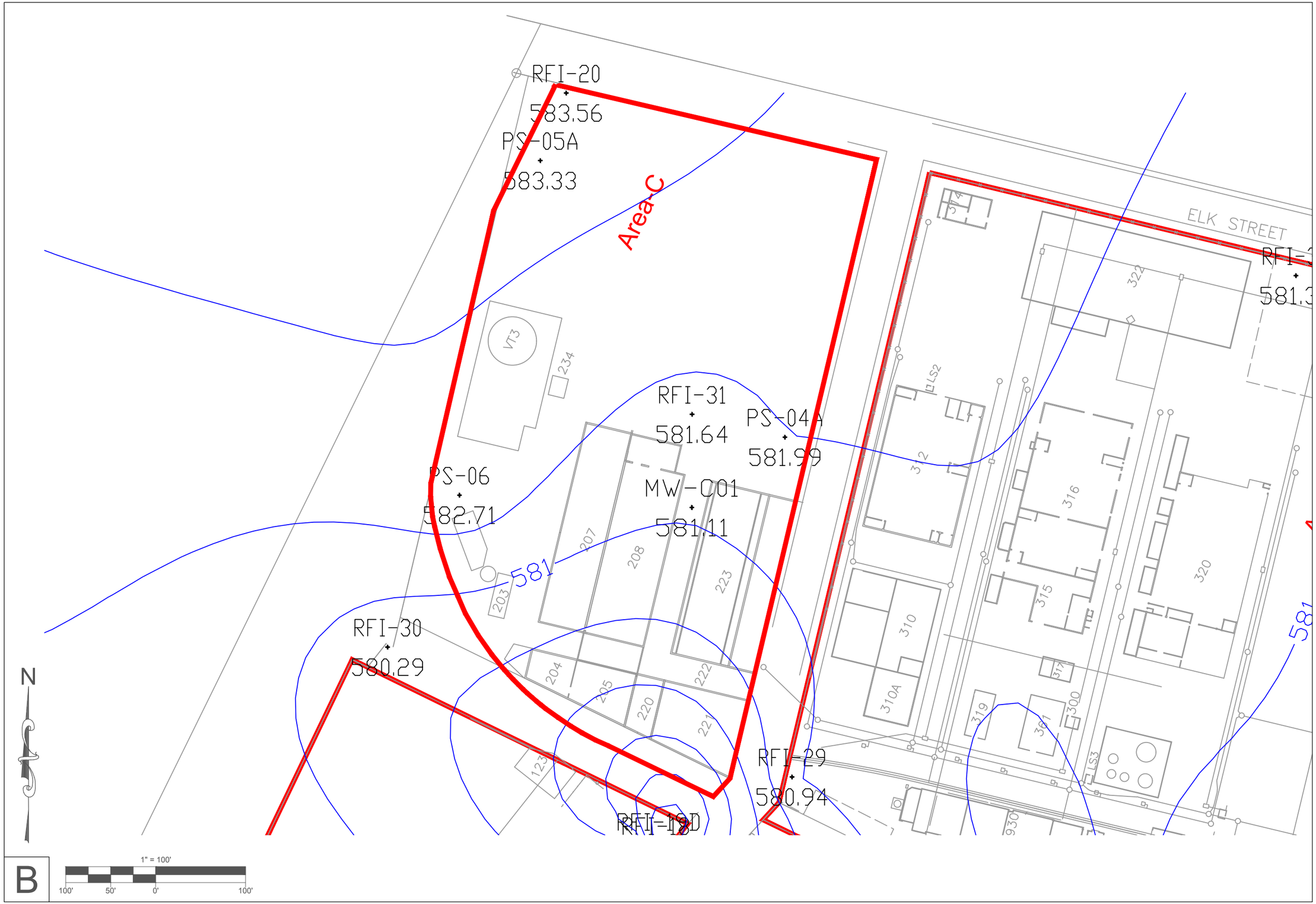

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FIGURE 5

DRAWING NUMBER

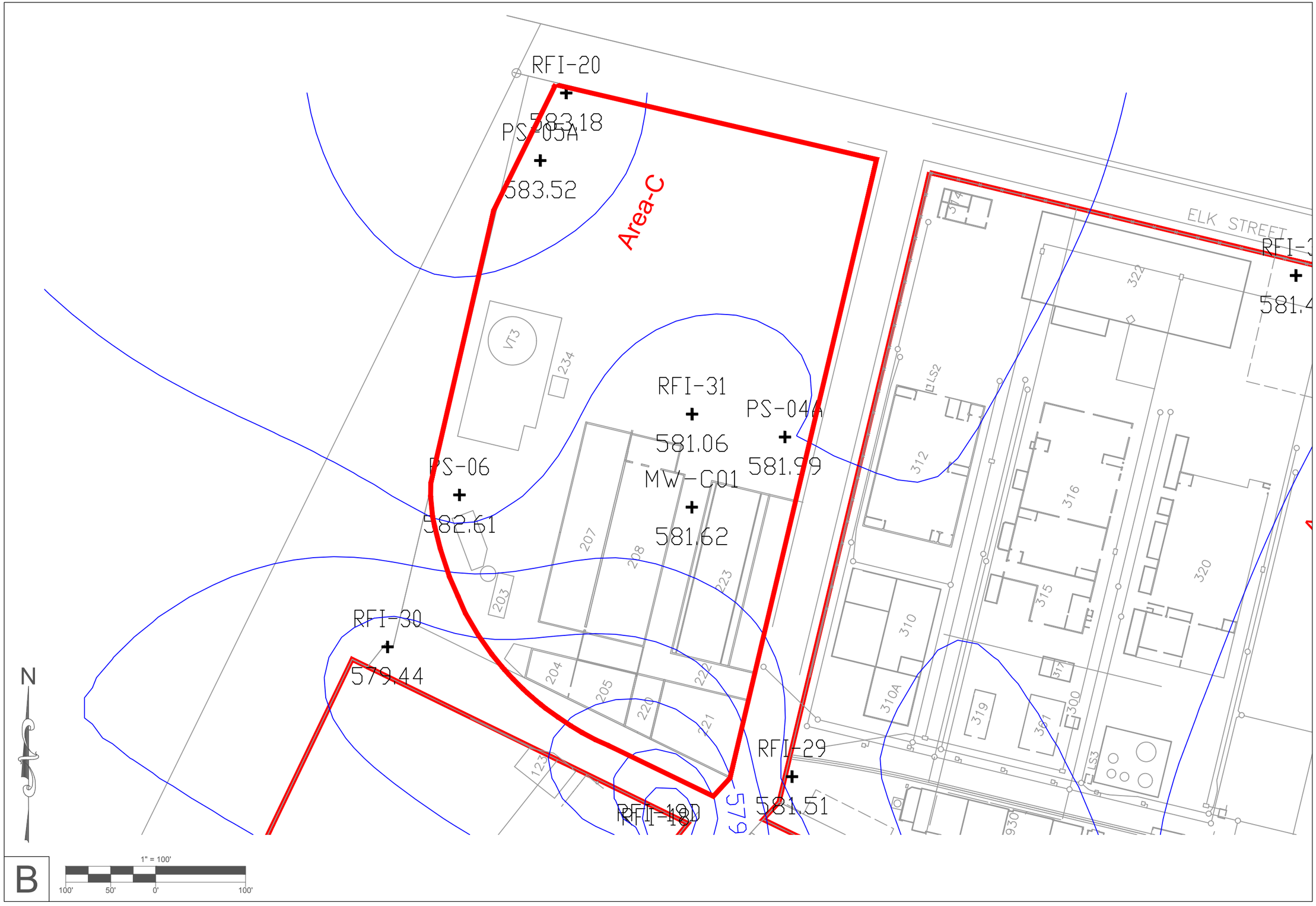

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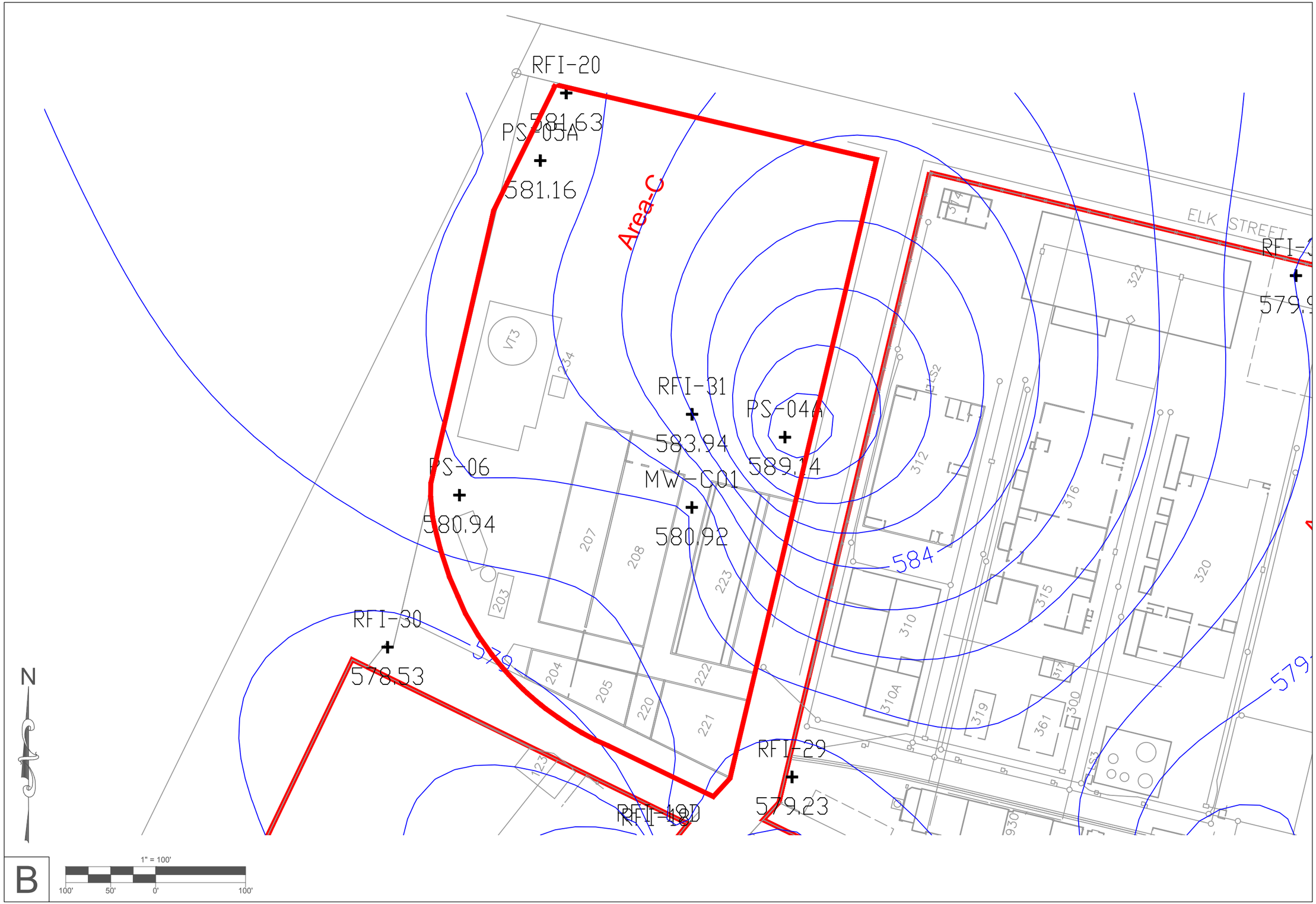
FIGURE 6

DRAWING NUMBER



B

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THIRD QUARTER 2019
GROUNDWATER ELEV CONTOURS
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FIGURE 7

DRAWING NUMBER

Appendices

Appendix A – Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-140719-1
Client Project/Site: Buffalo Color Area C Wells
Sampling Event: Buffalo Color Area C Wells

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Kirsten Colligan

Authorized for release by:
9/7/2018 7:31:15 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-140719-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-140719-1

Comments
No additional comments.

Receipt
The samples were received on 8/22/2018 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1º C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-C01_0818 (480-140719-2), BCC Area C PS-06_0818 (480-140719-5) and BCC Area C RFI-31_0818 (480-140719-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCC Area C MW-C04_0818 (480-140719-1), BCC Area C MW-C04 MS_0818 (480-140719-1[MS]), BCC Area C MW-C04 MSD_0818 (480-140719-1[MSD]), BCC Area C MW-C04 D_0818 (480-140719-3) and BCC Area C PS-05A_0818 (480-140719-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Due to the high concentration of 1,4-Dichlorobenzene and Chlorobenzene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-431217 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-431619 recovered above the upper control limit for Atrazine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BCC Area C MW-C04_0818 (480-140719-1), BCC Area C MW-C01_0818 (480-140719-2), BCC Area C MW-C04 D_0818 (480-140719-3), BCC Area C PS-05A_0818 (480-140719-4), BCC Area C PS-06_0818 (480-140719-5), BCC Area C RFI-20_0818 (480-140719-6) and BCC Area C RFI-31_0818 (480-140719-7).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-431619 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: BCC Area C MW-C01_0818 (480-140719-2) and BCC Area C PS-06_0818 (480-140719-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-431041 and analytical batch 480-431619 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples above the reporting limit; therefore, the data have been reported.

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

Metals
Method(s) 6010C: The following samples were diluted due to the presence of Total Sulfur which interferes with Total Lead: BCC Area C PS-05A_0818 (480-140719-4), BCC Area C PS-06_0818 (480-140719-5) and BCC Area C RFI-31_0818 (480-140719-7). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04_0818 — Lab Sample ID: 480-140719-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	5.4		5.0	4.0	ug/L	5		8260C	Total/NA
1,3-Dichlorobenzene	31		5.0	3.9	ug/L	5		8260C	Total/NA
1,4-Dichlorobenzene	59	F1	5.0	4.2	ug/L	5		8260C	Total/NA
Chlorobenzene	480	F1	5.0	3.8	ug/L	5		8260C	Total/NA
2,4-Dichlorophenol	5.0		5.0	0.51	ug/L	1		8270D	Total/NA
Aniline	0.99	J	10	0.61	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.39	J B *	5.0	0.31	ug/L	1		8270D	Total/NA
Nitrobenzene	0.41	J	5.0	0.29	ug/L	1		8270D	Total/NA
N-Nitrosodiphenylamine	0.61	J *	5.0	0.51	ug/L	1		8270D	Total/NA
Aluminum	0.095	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.26		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	221	B	0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0023	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	7.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	26.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	10.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	39.1		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0060	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00021		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C MW-C01_0818 — Lab Sample ID: 480-140719-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(b)fluoranthene	3.5	J *	50	3.4	ug/L	10		8270D	Total/NA
Fluoranthene	4.3	J *	50	4.0	ug/L	10		8270D	Total/NA
Pyrene	3.6	J *	50	3.4	ug/L	10		8270D	Total/NA
Aluminum	7.0		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.013	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.32		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00033	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.0014	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	303	B	0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.018		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0044		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.058		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	11.6		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.15		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	83.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.91	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.016		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	27.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	3260		5.0	1.6	mg/L	5		6010C	Total/NA
Vanadium	0.019		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.25		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.0020		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C MW-C04 D_0818 — Lab Sample ID: 480-140719-3

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04 D_0818 (Continued) — Lab Sample ID: 480-140719-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	32		10	7.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	57		10	8.4	ug/L	10		8260C	Total/NA
Chlorobenzene	480		10	7.5	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	4.6	J	5.0	0.51	ug/L	1		8270D	Total/NA
Aniline	0.86	J	10	0.61	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.38	J B *	5.0	0.31	ug/L	1		8270D	Total/NA
N-Nitrosodiphenylamine	0.62	J *	5.0	0.51	ug/L	1		8270D	Total/NA
Aluminum	0.14	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.25		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	216	B	0.50	0.10	mg/L	1		6010C	Total/NA
Iron	6.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	26.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	10.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	38.5		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0058	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-05A_0818 — Lab Sample ID: 480-140719-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	360		10	7.5	ug/L	10		8260C	Total/NA
2-Chlorophenol	6.9		5.0	0.53	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.33	J B *	5.0	0.31	ug/L	1		8270D	Total/NA
Arsenic	0.36		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.025		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	257	B	0.50	0.10	mg/L	1		6010C	Total/NA
Iron	27.7		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	23.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.36	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	16.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	99.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.029		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-06_0818 — Lab Sample ID: 480-140719-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.11	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.095		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.012		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	208	B	0.50	0.10	mg/L	1		6010C	Total/NA
Iron	35.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	10.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.18	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	57.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	64.8		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.015		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-20_0818 — Lab Sample ID: 480-140719-6

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-20_0818 (Continued) — Lab Sample ID: 480-140719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	3.0	ug/L	1		8260C	Total/NA
Chlorobenzene	57		1.0	0.75	ug/L	1		8260C	Total/NA
Di-n-butyl phthalate	0.35	J B *	5.0	0.31	ug/L	1		8270D	Total/NA
Barium	0.053		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	177	B	0.50	0.10	mg/L	1		6010C	Total/NA
Iron	6.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	16.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.30	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0026	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	9.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	35.8		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0017	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0099	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-31_0818 — Lab Sample ID: 480-140719-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	130		10	4.1	ug/L	10		8260C	Total/NA
1,3-Dichlorobenzene	51		10	7.8	ug/L	10		8260C	Total/NA
Chlorobenzene	40		10	7.5	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	1.3	J	5.0	0.51	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.41	J B *	5.0	0.31	ug/L	1		8270D	Total/NA
Barium	0.020		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00062	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	362	B	0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0026	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.55		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	117		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.5	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0035	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	20.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2020		10.0	3.2	mg/L	10		6010C	Total/NA
Zinc	0.0045	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-140719-8

No Detections.

Client Sample ID: BCC Area C MW-COIF_0818 — Lab Sample ID: 480-140719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.32		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0011	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	348	B	0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0017	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.40		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	98.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.0	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0044	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	33.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	4040		10.0	3.2	mg/L	10		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-COIF_0818 (Continued) — Lab Sample ID: 480-140719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.062		0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04_0818

Lab Sample ID: 480-140719-1

Date Collected: 08/21/18 12:10
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			08/23/18 23:55	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			08/23/18 23:55	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			08/23/18 23:55	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			08/23/18 23:55	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			08/23/18 23:55	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			08/23/18 23:55	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			08/23/18 23:55	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			08/23/18 23:55	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			08/23/18 23:55	5
1,2-Dichlorobenzene	**5.4**		5.0	4.0	ug/L			08/23/18 23:55	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			08/23/18 23:55	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			08/23/18 23:55	5
1,3-Dichlorobenzene	**31**		5.0	3.9	ug/L			08/23/18 23:55	5
1,4-Dichlorobenzene	**59**	**F1**	5.0	4.2	ug/L			08/23/18 23:55	5
2-Butanone (MEK)	ND		50	6.6	ug/L			08/23/18 23:55	5
2-Hexanone	ND		25	6.2	ug/L			08/23/18 23:55	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			08/23/18 23:55	5
Acetone	ND		50	15	ug/L			08/23/18 23:55	5
Benzene	ND		5.0	2.1	ug/L			08/23/18 23:55	5
Bromodichloromethane	ND		5.0	2.0	ug/L			08/23/18 23:55	5
Bromoform	ND		5.0	1.3	ug/L			08/23/18 23:55	5
Bromomethane	ND		5.0	3.5	ug/L			08/23/18 23:55	5
Carbon disulfide	ND		5.0	0.95	ug/L			08/23/18 23:55	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			08/23/18 23:55	5
Chlorobenzene	**480**	**F1**	5.0	3.8	ug/L			08/23/18 23:55	5
Chloroethane	ND		5.0	1.6	ug/L			08/23/18 23:55	5
Chloroform	ND		5.0	1.7	ug/L			08/23/18 23:55	5
Chloromethane	ND		5.0	1.8	ug/L			08/23/18 23:55	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			08/23/18 23:55	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			08/23/18 23:55	5
Cyclohexane	ND		5.0	0.90	ug/L			08/23/18 23:55	5
Dibromochloromethane	ND		5.0	1.6	ug/L			08/23/18 23:55	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			08/23/18 23:55	5
Ethylbenzene	ND		5.0	3.7	ug/L			08/23/18 23:55	5
Isopropylbenzene	ND		5.0	4.0	ug/L			08/23/18 23:55	5
Methyl acetate	ND		13	6.5	ug/L			08/23/18 23:55	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			08/23/18 23:55	5
Methylcyclohexane	ND		5.0	0.80	ug/L			08/23/18 23:55	5
Methylene Chloride	ND		5.0	2.2	ug/L			08/23/18 23:55	5
Styrene	ND		5.0	3.7	ug/L			08/23/18 23:55	5
Tetrachloroethene	ND		5.0	1.8	ug/L			08/23/18 23:55	5
Toluene	ND		5.0	2.6	ug/L			08/23/18 23:55	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			08/23/18 23:55	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			08/23/18 23:55	5
Trichloroethene	ND		5.0	2.3	ug/L			08/23/18 23:55	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			08/23/18 23:55	5
Vinyl chloride	ND		5.0	4.5	ug/L			08/23/18 23:55	5
Xylenes, Total	ND		10	3.3	ug/L			08/23/18 23:55	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04_0818

Date Collected: 08/21/18 12:10
Date Received: 08/22/18 14:40

Lab Sample ID: 480-140719-1

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*08/23/18 23:55*	*5*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/23/18 23:55*	*5*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/23/18 23:55*	*5*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/23/18 23:55*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 21:41	1
2,4,6-Trichlorophenol	ND	F1 *	5.0	0.61	ug/L		08/23/18 07:40	08/27/18 21:41	1
2,4-Dichlorophenol	**5.0**		5.0	0.51	ug/L		08/23/18 07:40	08/27/18 21:41	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/23/18 07:40	08/27/18 21:41	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 21:41	1
2,4-Dinitrotoluene	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/27/18 21:41	1
2,6-Dinitrotoluene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/27/18 21:41	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/23/18 07:40	08/27/18 21:41	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/23/18 07:40	08/27/18 21:41	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/23/18 07:40	08/27/18 21:41	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 21:41	1
2-Nitroaniline	ND	*	10	0.42	ug/L		08/23/18 07:40	08/27/18 21:41	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 21:41	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 21:41	1
3-Nitroaniline	ND		10	0.48	ug/L		08/23/18 07:40	08/27/18 21:41	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Bromophenyl phenyl ether	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Chlorophenyl phenyl ether	ND	F2 *	5.0	0.35	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Methylphenol	ND		10	0.36	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Nitroaniline	ND	*	10	0.25	ug/L		08/23/18 07:40	08/27/18 21:41	1
4-Nitrophenol	ND		10	1.5	ug/L		08/23/18 07:40	08/27/18 21:41	1
Acenaphthene	ND	F1 *	5.0	0.41	ug/L		08/23/18 07:40	08/27/18 21:41	1
Acenaphthylene	ND	F1 *	5.0	0.38	ug/L		08/23/18 07:40	08/27/18 21:41	1
Acetophenone	ND	*	5.0	0.54	ug/L		08/23/18 07:40	08/27/18 21:41	1
Aniline	**0.99**	**J**	10	0.61	ug/L		08/23/18 07:40	08/27/18 21:41	1
Anthracene	ND	*	5.0	0.28	ug/L		08/23/18 07:40	08/27/18 21:41	1
Atrazine	ND	*	5.0	0.46	ug/L		08/23/18 07:40	08/27/18 21:41	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/23/18 07:40	08/27/18 21:41	1
Benzo(a)anthracene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 21:41	1
Benzo(a)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/27/18 21:41	1
Benzo(b)fluoranthene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/27/18 21:41	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 21:41	1
Benzo(k)fluoranthene	ND	*	5.0	0.73	ug/L		08/23/18 07:40	08/27/18 21:41	1
Biphenyl	ND	*	5.0	0.65	ug/L		08/23/18 07:40	08/27/18 21:41	1
bis (2-chloroisopropyl) ether	ND	F1 *	5.0	0.52	ug/L		08/23/18 07:40	08/27/18 21:41	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 21:41	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 21:41	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 21:41	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/23/18 07:40	08/27/18 21:41	1
Caprolactam	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 21:41	1
Carbazole	ND	*	5.0	0.30	ug/L		08/23/18 07:40	08/27/18 21:41	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04_0818

Lab Sample ID: 480-140719-1
Date Collected: 08/21/18 12:10
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		08/23/18 07:40	08/27/18 21:41	1
Dibenz(a,h)anthracene	ND	*	5.0	0.42	ug/L		08/23/18 07:40	08/27/18 21:41	1
Dibenzofuran	ND		10	0.51	ug/L		08/23/18 07:40	08/27/18 21:41	1
Diethyl phthalate	ND	*	5.0	0.22	ug/L		08/23/18 07:40	08/27/18 21:41	1
Dimethyl phthalate	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 21:41	1
Di-n-butyl phthalate	**0.39**	**J B ***	5.0	0.31	ug/L		08/23/18 07:40	08/27/18 21:41	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/23/18 07:40	08/27/18 21:41	1
Fluoranthene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/27/18 21:41	1
Fluorene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 21:41	1
Hexachlorobenzene	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 21:41	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/23/18 07:40	08/27/18 21:41	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 21:41	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 21:41	1
Indeno(1,2,3-cd)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/27/18 21:41	1
Isophorone	ND	*	5.0	0.43	ug/L		08/23/18 07:40	08/27/18 21:41	1
Naphthalene	ND		5.0	0.76	ug/L		08/23/18 07:40	08/27/18 21:41	1
Nitrobenzene	**0.41**	**J**	5.0	0.29	ug/L		08/23/18 07:40	08/27/18 21:41	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/23/18 07:40	08/27/18 21:41	1
N-Nitrosodiphenylamine	**0.61**	**J ***	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 21:41	1
Pentachlorophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 21:41	1
Phenanthrene	ND	*	5.0	0.44	ug/L		08/23/18 07:40	08/27/18 21:41	1
Phenol	ND		5.0	0.39	ug/L		08/23/18 07:40	08/27/18 21:41	1
Pyrene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/27/18 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*08/23/18 07:40*	*08/27/18 21:41*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*08/23/18 07:40*	*08/27/18 21:41*	*1*
2-Fluorophenol	*64*		*35 - 120*	*08/23/18 07:40*	*08/27/18 21:41*	*1*
Nitrobenzene-d5	*83*		*46 - 120*	*08/23/18 07:40*	*08/27/18 21:41*	*1*
Phenol-d5	*43*		*22 - 120*	*08/23/18 07:40*	*08/27/18 21:41*	*1*
p-Terphenyl-d14	*75*		*59 - 136*	*08/23/18 07:40*	*08/27/18 21:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.095**	**J**	0.20	0.060	mg/L		08/27/18 09:26	08/28/18 14:22	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 14:22	1
Arsenic	ND		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 14:22	1
Barium	**0.26**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 14:22	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 14:22	1
Cadmium	ND		0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 14:22	1
Calcium	**221**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:22	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 14:22	1
Cobalt	ND		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 14:22	1
Copper	**0.0023**	**J**	0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 14:22	1
Iron	**7.0**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 14:22	1
Lead	ND		0.010	0.0030	mg/L		08/27/18 09:26	08/28/18 14:22	1
Magnesium	**26.5**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 14:22	1
Manganese	**1.1**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 14:22	1
Nickel	ND		0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 14:22	1
Potassium	**10.4**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:22	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04_0818

Lab Sample ID: 480-140719-1

Date Collected: 08/21/18 12:10
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 14:22	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 14:22	1
Sodium	**39.1**		1.0	0.32	mg/L		08/27/18 09:26	08/28/18 14:22	1
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 14:22	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 14:22	1
Zinc	**0.0060**	**J**	0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 14:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00021**		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 16:58	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C01_0818

Lab Sample ID: 480-140719-2

Date Collected: 08/21/18 14:40

Matrix: Ground Water

Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			08/24/18 00:18	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			08/24/18 00:18	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			08/24/18 00:18	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			08/24/18 00:18	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			08/24/18 00:18	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			08/24/18 00:18	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			08/24/18 00:18	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			08/24/18 00:18	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			08/24/18 00:18	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			08/24/18 00:18	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			08/24/18 00:18	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			08/24/18 00:18	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			08/24/18 00:18	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			08/24/18 00:18	2
2-Butanone (MEK)	ND		20	2.6	ug/L			08/24/18 00:18	2
2-Hexanone	ND		10	2.5	ug/L			08/24/18 00:18	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			08/24/18 00:18	2
Acetone	ND		20	6.0	ug/L			08/24/18 00:18	2
Benzene	ND		2.0	0.82	ug/L			08/24/18 00:18	2
Bromodichloromethane	ND		2.0	0.78	ug/L			08/24/18 00:18	2
Bromoform	ND		2.0	0.52	ug/L			08/24/18 00:18	2
Bromomethane	ND		2.0	1.4	ug/L			08/24/18 00:18	2
Carbon disulfide	ND		2.0	0.38	ug/L			08/24/18 00:18	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			08/24/18 00:18	2
Chlorobenzene	ND		2.0	1.5	ug/L			08/24/18 00:18	2
Chloroethane	ND		2.0	0.64	ug/L			08/24/18 00:18	2
Chloroform	ND		2.0	0.68	ug/L			08/24/18 00:18	2
Chloromethane	ND		2.0	0.70	ug/L			08/24/18 00:18	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			08/24/18 00:18	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			08/24/18 00:18	2
Cyclohexane	ND		2.0	0.36	ug/L			08/24/18 00:18	2
Dibromochloromethane	ND		2.0	0.64	ug/L			08/24/18 00:18	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			08/24/18 00:18	2
Ethylbenzene	ND		2.0	1.5	ug/L			08/24/18 00:18	2
Isopropylbenzene	ND		2.0	1.6	ug/L			08/24/18 00:18	2
Methyl acetate	ND		5.0	2.6	ug/L			08/24/18 00:18	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			08/24/18 00:18	2
Methylcyclohexane	ND		2.0	0.32	ug/L			08/24/18 00:18	2
Methylene Chloride	ND		2.0	0.88	ug/L			08/24/18 00:18	2
Styrene	ND		2.0	1.5	ug/L			08/24/18 00:18	2
Tetrachloroethene	ND		2.0	0.72	ug/L			08/24/18 00:18	2
Toluene	ND		2.0	1.0	ug/L			08/24/18 00:18	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			08/24/18 00:18	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			08/24/18 00:18	2
Trichloroethene	ND		2.0	0.92	ug/L			08/24/18 00:18	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			08/24/18 00:18	2
Vinyl chloride	ND		2.0	1.8	ug/L			08/24/18 00:18	2
Xylenes, Total	ND		4.0	1.3	ug/L			08/24/18 00:18	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C01_0818

Date Collected: 08/21/18 14:40
Date Received: 08/22/18 14:40

Lab Sample ID: 480-140719-2

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/24/18 00:18*	*2*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*08/24/18 00:18*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/18 00:18*	*2*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/24/18 00:18*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		50	4.8	ug/L		08/23/18 07:40	08/27/18 22:39	10
2,4,6-Trichlorophenol	ND	*	50	6.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
2,4-Dichlorophenol	ND		50	5.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
2,4-Dimethylphenol	ND		50	5.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
2,4-Dinitrophenol	ND		100	22	ug/L		08/23/18 07:40	08/27/18 22:39	10
2,4-Dinitrotoluene	ND	*	50	4.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
2,6-Dinitrotoluene	ND	*	50	4.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
2-Chloronaphthalene	ND		50	4.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
2-Chlorophenol	ND		50	5.3	ug/L		08/23/18 07:40	08/27/18 22:39	10
2-Methylnaphthalene	ND		50	6.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
2-Methylphenol	ND		50	4.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
2-Nitroaniline	ND	*	100	4.2	ug/L		08/23/18 07:40	08/27/18 22:39	10
2-Nitrophenol	ND		50	4.8	ug/L		08/23/18 07:40	08/27/18 22:39	10
3,3'-Dichlorobenzidine	ND		50	4.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
3-Nitroaniline	ND		100	4.8	ug/L		08/23/18 07:40	08/27/18 22:39	10
4,6-Dinitro-2-methylphenol	ND		100	22	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Bromophenyl phenyl ether	ND	*	50	4.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Chloro-3-methylphenol	ND		50	4.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Chloroaniline	ND		50	5.9	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Chlorophenyl phenyl ether	ND	*	50	3.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Methylphenol	ND		100	3.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Nitroaniline	ND	*	100	2.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
4-Nitrophenol	ND		100	15	ug/L		08/23/18 07:40	08/27/18 22:39	10
Acenaphthene	ND	*	50	4.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
Acenaphthylene	ND	*	50	3.8	ug/L		08/23/18 07:40	08/27/18 22:39	10
Acetophenone	ND	*	50	5.4	ug/L		08/23/18 07:40	08/27/18 22:39	10
Aniline	ND		100	6.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
Anthracene	ND	*	50	2.8	ug/L		08/23/18 07:40	08/27/18 22:39	10
Atrazine	ND	*	50	4.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
Benzaldehyde	ND		50	2.7	ug/L		08/23/18 07:40	08/27/18 22:39	10
Benzo(a)anthracene	ND	*	50	3.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
Benzo(a)pyrene	ND	*	50	4.7	ug/L		08/23/18 07:40	08/27/18 22:39	10
Benzo(b)fluoranthene	**3.5**	**J ***	50	3.4	ug/L		08/23/18 07:40	08/27/18 22:39	10
Benzo(g,h,i)perylene	ND		50	3.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
Benzo(k)fluoranthene	ND	*	50	7.3	ug/L		08/23/18 07:40	08/27/18 22:39	10
Biphenyl	ND	*	50	6.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
bis (2-chloroisopropyl) ether	ND	*	50	5.2	ug/L		08/23/18 07:40	08/27/18 22:39	10
Bis(2-chloroethoxy)methane	ND		50	3.5	ug/L		08/23/18 07:40	08/27/18 22:39	10
Bis(2-chloroethyl)ether	ND		50	4.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
Bis(2-ethylhexyl) phthalate	ND		50	22	ug/L		08/23/18 07:40	08/27/18 22:39	10
Butyl benzyl phthalate	ND		50	10	ug/L		08/23/18 07:40	08/27/18 22:39	10
Caprolactam	ND		50	22	ug/L		08/23/18 07:40	08/27/18 22:39	10
Carbazole	ND	*	50	3.0	ug/L		08/23/18 07:40	08/27/18 22:39	10

Client Sample ID: BCC Area C MW-C01_0818

Lab Sample ID: 480-140719-2
Date Collected: 08/21/18 14:40
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		50	3.3	ug/L		08/23/18 07:40	08/27/18 22:39	10
Dibenz(a,h)anthracene	ND	*	50	4.2	ug/L		08/23/18 07:40	08/27/18 22:39	10
Dibenzofuran	ND		100	5.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
Diethyl phthalate	ND	*	50	2.2	ug/L		08/23/18 07:40	08/27/18 22:39	10
Dimethyl phthalate	ND	*	50	3.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
Di-n-butyl phthalate	ND	*	50	3.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
Di-n-octyl phthalate	ND		50	4.7	ug/L		08/23/18 07:40	08/27/18 22:39	10
Fluoranthene	**4.3**	**J ***	50	4.0	ug/L		08/23/18 07:40	08/27/18 22:39	10
Fluorene	ND	*	50	3.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
Hexachlorobenzene	ND	*	50	5.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
Hexachlorobutadiene	ND		50	6.8	ug/L		08/23/18 07:40	08/27/18 22:39	10
Hexachlorocyclopentadiene	ND		50	5.9	ug/L		08/23/18 07:40	08/27/18 22:39	10
Hexachloroethane	ND		50	5.9	ug/L		08/23/18 07:40	08/27/18 22:39	10
Indeno(1,2,3-cd)pyrene	ND	*	50	4.7	ug/L		08/23/18 07:40	08/27/18 22:39	10
Isophorone	ND	*	50	4.3	ug/L		08/23/18 07:40	08/27/18 22:39	10
Naphthalene	ND		50	7.6	ug/L		08/23/18 07:40	08/27/18 22:39	10
Nitrobenzene	ND		50	2.9	ug/L		08/23/18 07:40	08/27/18 22:39	10
N-Nitrosodi-n-propylamine	ND		50	5.4	ug/L		08/23/18 07:40	08/27/18 22:39	10
N-Nitrosodiphenylamine	ND	*	50	5.1	ug/L		08/23/18 07:40	08/27/18 22:39	10
Pentachlorophenol	ND		100	22	ug/L		08/23/18 07:40	08/27/18 22:39	10
Phenanthrene	ND	*	50	4.4	ug/L		08/23/18 07:40	08/27/18 22:39	10
Phenol	ND		50	3.9	ug/L		08/23/18 07:40	08/27/18 22:39	10
Pyrene	**3.6**	**J ***	50	3.4	ug/L		08/23/18 07:40	08/27/18 22:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*41 - 120*	*08/23/18 07:40*	*08/27/18 22:39*	*10*
2-Fluorobiphenyl	*77*		*48 - 120*	*08/23/18 07:40*	*08/27/18 22:39*	*10*
2-Fluorophenol	*60*		*35 - 120*	*08/23/18 07:40*	*08/27/18 22:39*	*10*
Nitrobenzene-d5	*69*		*46 - 120*	*08/23/18 07:40*	*08/27/18 22:39*	*10*
Phenol-d5	*45*		*22 - 120*	*08/23/18 07:40*	*08/27/18 22:39*	*10*
p-Terphenyl-d14	*70*		*59 - 136*	*08/23/18 07:40*	*08/27/18 22:39*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7.0**		0.20	0.060	mg/L		08/27/18 09:26	08/28/18 14:50	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 14:50	1
Arsenic	**0.013**	**J**	0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 14:50	1
Barium	**0.32**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 14:50	1
Beryllium	**0.00033**	**J**	0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 14:50	1
Cadmium	**0.0014**	**J**	0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 14:50	1
Calcium	**303**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:50	1
Chromium	**0.018**		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 14:50	1
Cobalt	**0.0044**		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 14:50	1
Copper	**0.058**		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 14:50	1
Iron	**11.6**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 14:50	1
Lead	**0.15**		0.010	0.0030	mg/L		08/27/18 09:26	08/28/18 14:50	1
Magnesium	**83.3**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 14:50	1
Manganese	**0.91**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 14:50	1
Nickel	**0.016**		0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 14:50	1
Potassium	**27.9**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:50	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C01_0818

Lab Sample ID: 480-140719-2
Date Collected: 08/21/18 14:40
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 14:50	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 14:50	1
Sodium	**3260**		5.0	1.6	mg/L		08/27/18 09:26	08/29/18 12:41	5
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 14:50	1
Vanadium	**0.019**		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 14:50	1
Zinc	**0.25**		0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 14:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0020**		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:06	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04 D_0818

Lab Sample ID: 480-140719-3

Date Collected: 08/21/18 12:20
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			08/24/18 00:42	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			08/24/18 00:42	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			08/24/18 00:42	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			08/24/18 00:42	10
1,1-Dichloroethane	ND		10	3.8	ug/L			08/24/18 00:42	10
1,1-Dichloroethene	ND		10	2.9	ug/L			08/24/18 00:42	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			08/24/18 00:42	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			08/24/18 00:42	10
1,2-Dibromoethane	ND		10	7.3	ug/L			08/24/18 00:42	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			08/24/18 00:42	10
1,2-Dichloroethane	ND		10	2.1	ug/L			08/24/18 00:42	10
1,2-Dichloropropane	ND		10	7.2	ug/L			08/24/18 00:42	10
1,3-Dichlorobenzene	**32**		10	7.8	ug/L			08/24/18 00:42	10
1,4-Dichlorobenzene	**57**		10	8.4	ug/L			08/24/18 00:42	10
2-Butanone (MEK)	ND		100	13	ug/L			08/24/18 00:42	10
2-Hexanone	ND		50	12	ug/L			08/24/18 00:42	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			08/24/18 00:42	10
Acetone	ND		100	30	ug/L			08/24/18 00:42	10
Benzene	ND		10	4.1	ug/L			08/24/18 00:42	10
Bromodichloromethane	ND		10	3.9	ug/L			08/24/18 00:42	10
Bromoform	ND		10	2.6	ug/L			08/24/18 00:42	10
Bromomethane	ND		10	6.9	ug/L			08/24/18 00:42	10
Carbon disulfide	ND		10	1.9	ug/L			08/24/18 00:42	10
Carbon tetrachloride	ND		10	2.7	ug/L			08/24/18 00:42	10
Chlorobenzene	**480**		10	7.5	ug/L			08/24/18 00:42	10
Chloroethane	ND		10	3.2	ug/L			08/24/18 00:42	10
Chloroform	ND		10	3.4	ug/L			08/24/18 00:42	10
Chloromethane	ND		10	3.5	ug/L			08/24/18 00:42	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			08/24/18 00:42	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			08/24/18 00:42	10
Cyclohexane	ND		10	1.8	ug/L			08/24/18 00:42	10
Dibromochloromethane	ND		10	3.2	ug/L			08/24/18 00:42	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			08/24/18 00:42	10
Ethylbenzene	ND		10	7.4	ug/L			08/24/18 00:42	10
Isopropylbenzene	ND		10	7.9	ug/L			08/24/18 00:42	10
Methyl acetate	ND		25	13	ug/L			08/24/18 00:42	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			08/24/18 00:42	10
Methylcyclohexane	ND		10	1.6	ug/L			08/24/18 00:42	10
Methylene Chloride	ND		10	4.4	ug/L			08/24/18 00:42	10
Styrene	ND		10	7.3	ug/L			08/24/18 00:42	10
Tetrachloroethene	ND		10	3.6	ug/L			08/24/18 00:42	10
Toluene	ND		10	5.1	ug/L			08/24/18 00:42	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			08/24/18 00:42	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			08/24/18 00:42	10
Trichloroethene	ND		10	4.6	ug/L			08/24/18 00:42	10
Trichlorofluoromethane	ND		10	8.8	ug/L			08/24/18 00:42	10
Vinyl chloride	ND		10	9.0	ug/L			08/24/18 00:42	10
Xylenes, Total	ND		20	6.6	ug/L			08/24/18 00:42	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04 D_0818

Lab Sample ID: 480-140719-3

Date Collected: 08/21/18 12:20
Matrix: Ground Water
Date Received: 08/22/18 14:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*08/24/18 00:42*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/24/18 00:42*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/24/18 00:42*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/24/18 00:42*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 23:09	1
2,4,6-Trichlorophenol	ND	*	5.0	0.61	ug/L		08/23/18 07:40	08/27/18 23:09	1
2,4-Dichlorophenol	**4.6**	**J**	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 23:09	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/23/18 07:40	08/27/18 23:09	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 23:09	1
2,4-Dinitrotoluene	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/27/18 23:09	1
2,6-Dinitrotoluene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:09	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/23/18 07:40	08/27/18 23:09	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/23/18 07:40	08/27/18 23:09	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/23/18 07:40	08/27/18 23:09	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:09	1
2-Nitroaniline	ND	*	10	0.42	ug/L		08/23/18 07:40	08/27/18 23:09	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 23:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:09	1
3-Nitroaniline	ND		10	0.48	ug/L		08/23/18 07:40	08/27/18 23:09	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Bromophenyl phenyl ether	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Chlorophenyl phenyl ether	ND	*	5.0	0.35	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Methylphenol	ND		10	0.36	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Nitroaniline	ND	*	10	0.25	ug/L		08/23/18 07:40	08/27/18 23:09	1
4-Nitrophenol	ND		10	1.5	ug/L		08/23/18 07:40	08/27/18 23:09	1
Acenaphthene	ND	*	5.0	0.41	ug/L		08/23/18 07:40	08/27/18 23:09	1
Acenaphthylene	ND	*	5.0	0.38	ug/L		08/23/18 07:40	08/27/18 23:09	1
Acetophenone	ND	*	5.0	0.54	ug/L		08/23/18 07:40	08/27/18 23:09	1
Aniline	**0.86**	**J**	10	0.61	ug/L		08/23/18 07:40	08/27/18 23:09	1
Anthracene	ND	*	5.0	0.28	ug/L		08/23/18 07:40	08/27/18 23:09	1
Atrazine	ND	*	5.0	0.46	ug/L		08/23/18 07:40	08/27/18 23:09	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/23/18 07:40	08/27/18 23:09	1
Benzo(a)anthracene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 23:09	1
Benzo(a)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/27/18 23:09	1
Benzo(b)fluoranthene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/27/18 23:09	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 23:09	1
Benzo(k)fluoranthene	ND	*	5.0	0.73	ug/L		08/23/18 07:40	08/27/18 23:09	1
Biphenyl	ND	*	5.0	0.65	ug/L		08/23/18 07:40	08/27/18 23:09	1
bis (2-chloroisopropyl) ether	ND	*	5.0	0.52	ug/L		08/23/18 07:40	08/27/18 23:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 23:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:09	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 23:09	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/23/18 07:40	08/27/18 23:09	1
Caprolactam	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 23:09	1
Carbazole	ND	*	5.0	0.30	ug/L		08/23/18 07:40	08/27/18 23:09	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04 D_0818

Lab Sample ID: 480-140719-3
Date Collected: 08/21/18 12:20
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		08/23/18 07:40	08/27/18 23:09	1
Dibenz(a,h)anthracene	ND	*	5.0	0.42	ug/L		08/23/18 07:40	08/27/18 23:09	1
Dibenzofuran	ND		10	0.51	ug/L		08/23/18 07:40	08/27/18 23:09	1
Diethyl phthalate	ND	*	5.0	0.22	ug/L		08/23/18 07:40	08/27/18 23:09	1
Dimethyl phthalate	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 23:09	1
Di-n-butyl phthalate	**0.38**	**J B ***	5.0	0.31	ug/L		08/23/18 07:40	08/27/18 23:09	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/23/18 07:40	08/27/18 23:09	1
Fluoranthene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:09	1
Fluorene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 23:09	1
Hexachlorobenzene	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 23:09	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/23/18 07:40	08/27/18 23:09	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 23:09	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 23:09	1
Indeno(1,2,3-cd)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/27/18 23:09	1
Isophorone	ND	*	5.0	0.43	ug/L		08/23/18 07:40	08/27/18 23:09	1
Naphthalene	ND		5.0	0.76	ug/L		08/23/18 07:40	08/27/18 23:09	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/23/18 07:40	08/27/18 23:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/23/18 07:40	08/27/18 23:09	1
N-Nitrosodiphenylamine	**0.62**	**J ***	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 23:09	1
Pentachlorophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 23:09	1
Phenanthrene	ND	*	5.0	0.44	ug/L		08/23/18 07:40	08/27/18 23:09	1
Phenol	ND		5.0	0.39	ug/L		08/23/18 07:40	08/27/18 23:09	1
Pyrene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/27/18 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*41 - 120*	*08/23/18 07:40*	*08/27/18 23:09*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*08/23/18 07:40*	*08/27/18 23:09*	*1*
2-Fluorophenol	*61*		*35 - 120*	*08/23/18 07:40*	*08/27/18 23:09*	*1*
Nitrobenzene-d5	*80*		*46 - 120*	*08/23/18 07:40*	*08/27/18 23:09*	*1*
Phenol-d5	*42*		*22 - 120*	*08/23/18 07:40*	*08/27/18 23:09*	*1*
p-Terphenyl-d14	*80*		*59 - 136*	*08/23/18 07:40*	*08/27/18 23:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**	**J**	0.20	0.060	mg/L		08/27/18 09:26	08/28/18 14:54	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 14:54	1
Arsenic	ND		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 14:54	1
Barium	**0.25**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 14:54	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 14:54	1
Cadmium	ND		0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 14:54	1
Calcium	**216**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:54	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 14:54	1
Cobalt	ND		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 14:54	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 14:54	1
Iron	**6.4**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 14:54	1
Lead	ND		0.010	0.0030	mg/L		08/27/18 09:26	08/28/18 14:54	1
Magnesium	**26.1**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 14:54	1
Manganese	**1.1**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 14:54	1
Nickel	ND		0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 14:54	1
Potassium	**10.2**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:54	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04 D_0818

Lab Sample ID: 480-140719-3
Date Collected: 08/21/18 12:20
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 14:54	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 14:54	1
Sodium	**38.5**		1.0	0.32	mg/L		08/27/18 09:26	08/28/18 14:54	1
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 14:54	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 14:54	1
Zinc	**0.0058**	**J**	0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 14:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:08	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-05A_0818

Lab Sample ID: 480-140719-4

Date Collected: 08/22/18 09:45
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			08/24/18 01:05	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			08/24/18 01:05	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			08/24/18 01:05	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			08/24/18 01:05	10
1,1-Dichloroethane	ND		10	3.8	ug/L			08/24/18 01:05	10
1,1-Dichloroethene	ND		10	2.9	ug/L			08/24/18 01:05	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			08/24/18 01:05	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			08/24/18 01:05	10
1,2-Dibromoethane	ND		10	7.3	ug/L			08/24/18 01:05	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			08/24/18 01:05	10
1,2-Dichloroethane	ND		10	2.1	ug/L			08/24/18 01:05	10
1,2-Dichloropropane	ND		10	7.2	ug/L			08/24/18 01:05	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			08/24/18 01:05	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			08/24/18 01:05	10
2-Butanone (MEK)	ND		100	13	ug/L			08/24/18 01:05	10
2-Hexanone	ND		50	12	ug/L			08/24/18 01:05	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			08/24/18 01:05	10
Acetone	ND		100	30	ug/L			08/24/18 01:05	10
Benzene	ND		10	4.1	ug/L			08/24/18 01:05	10
Bromodichloromethane	ND		10	3.9	ug/L			08/24/18 01:05	10
Bromoform	ND		10	2.6	ug/L			08/24/18 01:05	10
Bromomethane	ND		10	6.9	ug/L			08/24/18 01:05	10
Carbon disulfide	ND		10	1.9	ug/L			08/24/18 01:05	10
Carbon tetrachloride	ND		10	2.7	ug/L			08/24/18 01:05	10
Chlorobenzene	**360**		10	7.5	ug/L			08/24/18 01:05	10
Chloroethane	ND		10	3.2	ug/L			08/24/18 01:05	10
Chloroform	ND		10	3.4	ug/L			08/24/18 01:05	10
Chloromethane	ND		10	3.5	ug/L			08/24/18 01:05	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			08/24/18 01:05	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			08/24/18 01:05	10
Cyclohexane	ND		10	1.8	ug/L			08/24/18 01:05	10
Dibromochloromethane	ND		10	3.2	ug/L			08/24/18 01:05	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			08/24/18 01:05	10
Ethylbenzene	ND		10	7.4	ug/L			08/24/18 01:05	10
Isopropylbenzene	ND		10	7.9	ug/L			08/24/18 01:05	10
Methyl acetate	ND		25	13	ug/L			08/24/18 01:05	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			08/24/18 01:05	10
Methylcyclohexane	ND		10	1.6	ug/L			08/24/18 01:05	10
Methylene Chloride	ND		10	4.4	ug/L			08/24/18 01:05	10
Styrene	ND		10	7.3	ug/L			08/24/18 01:05	10
Tetrachloroethene	ND		10	3.6	ug/L			08/24/18 01:05	10
Toluene	ND		10	5.1	ug/L			08/24/18 01:05	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			08/24/18 01:05	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			08/24/18 01:05	10
Trichloroethene	ND		10	4.6	ug/L			08/24/18 01:05	10
Trichlorofluoromethane	ND		10	8.8	ug/L			08/24/18 01:05	10
Vinyl chloride	ND		10	9.0	ug/L			08/24/18 01:05	10
Xylenes, Total	ND		20	6.6	ug/L			08/24/18 01:05	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-05A_0818

Date Collected: 08/22/18 09:45
Date Received: 08/22/18 14:40

Lab Sample ID: 480-140719-4

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*08/24/18 01:05*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*08/24/18 01:05*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/18 01:05*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*08/24/18 01:05*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 23:38	1
2,4,6-Trichlorophenol	ND	*	5.0	0.61	ug/L		08/23/18 07:40	08/27/18 23:38	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/23/18 07:40	08/27/18 23:38	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/23/18 07:40	08/27/18 23:38	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 23:38	1
2,4-Dinitrotoluene	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/27/18 23:38	1
2,6-Dinitrotoluene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:38	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/23/18 07:40	08/27/18 23:38	1
2-Chlorophenol	**6.9**		5.0	0.53	ug/L		08/23/18 07:40	08/27/18 23:38	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/23/18 07:40	08/27/18 23:38	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:38	1
2-Nitroaniline	ND	*	10	0.42	ug/L		08/23/18 07:40	08/27/18 23:38	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 23:38	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:38	1
3-Nitroaniline	ND		10	0.48	ug/L		08/23/18 07:40	08/27/18 23:38	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Bromophenyl phenyl ether	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Chlorophenyl phenyl ether	ND	*	5.0	0.35	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Methylphenol	ND		10	0.36	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Nitroaniline	ND	*	10	0.25	ug/L		08/23/18 07:40	08/27/18 23:38	1
4-Nitrophenol	ND		10	1.5	ug/L		08/23/18 07:40	08/27/18 23:38	1
Acenaphthene	ND	*	5.0	0.41	ug/L		08/23/18 07:40	08/27/18 23:38	1
Acenaphthylene	ND	*	5.0	0.38	ug/L		08/23/18 07:40	08/27/18 23:38	1
Acetophenone	ND	*	5.0	0.54	ug/L		08/23/18 07:40	08/27/18 23:38	1
Aniline	ND		10	0.61	ug/L		08/23/18 07:40	08/27/18 23:38	1
Anthracene	ND	*	5.0	0.28	ug/L		08/23/18 07:40	08/27/18 23:38	1
Atrazine	ND	*	5.0	0.46	ug/L		08/23/18 07:40	08/27/18 23:38	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/23/18 07:40	08/27/18 23:38	1
Benzo(a)anthracene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 23:38	1
Benzo(a)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/27/18 23:38	1
Benzo(b)fluoranthene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/27/18 23:38	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 23:38	1
Benzo(k)fluoranthene	ND	*	5.0	0.73	ug/L		08/23/18 07:40	08/27/18 23:38	1
Biphenyl	ND	*	5.0	0.65	ug/L		08/23/18 07:40	08/27/18 23:38	1
bis (2-chloroisopropyl) ether	ND	*	5.0	0.52	ug/L		08/23/18 07:40	08/27/18 23:38	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 23:38	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:38	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 23:38	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/23/18 07:40	08/27/18 23:38	1
Caprolactam	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 23:38	1
Carbazole	ND	*	5.0	0.30	ug/L		08/23/18 07:40	08/27/18 23:38	1

Client Sample ID: BCC Area C PS-05A_0818

Lab Sample ID: 480-140719-4

Date Collected: 08/22/18 09:45
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		08/23/18 07:40	08/27/18 23:38	1
Dibenz(a,h)anthracene	ND	*	5.0	0.42	ug/L		08/23/18 07:40	08/27/18 23:38	1
Dibenzofuran	ND		10	0.51	ug/L		08/23/18 07:40	08/27/18 23:38	1
Diethyl phthalate	ND	*	5.0	0.22	ug/L		08/23/18 07:40	08/27/18 23:38	1
Dimethyl phthalate	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 23:38	1
Di-n-butyl phthalate	**0.33**	**J B ***	5.0	0.31	ug/L		08/23/18 07:40	08/27/18 23:38	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/23/18 07:40	08/27/18 23:38	1
Fluoranthene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/27/18 23:38	1
Fluorene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/27/18 23:38	1
Hexachlorobenzene	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 23:38	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/23/18 07:40	08/27/18 23:38	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 23:38	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 23:38	1
Indeno(1,2,3-cd)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/27/18 23:38	1
Isophorone	ND	*	5.0	0.43	ug/L		08/23/18 07:40	08/27/18 23:38	1
Naphthalene	ND		5.0	0.76	ug/L		08/23/18 07:40	08/27/18 23:38	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/23/18 07:40	08/27/18 23:38	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/23/18 07:40	08/27/18 23:38	1
N-Nitrosodiphenylamine	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/27/18 23:38	1
Pentachlorophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 23:38	1
Phenanthrene	ND	*	5.0	0.44	ug/L		08/23/18 07:40	08/27/18 23:38	1
Phenol	ND		5.0	0.39	ug/L		08/23/18 07:40	08/27/18 23:38	1
Pyrene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/27/18 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*41 - 120*	*08/23/18 07:40*	*08/27/18 23:38*	*1*
2-Fluorobiphenyl	*104*		*48 - 120*	*08/23/18 07:40*	*08/27/18 23:38*	*1*
2-Fluorophenol	*71*		*35 - 120*	*08/23/18 07:40*	*08/27/18 23:38*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*08/23/18 07:40*	*08/27/18 23:38*	*1*
Phenol-d5	*48*		*22 - 120*	*08/23/18 07:40*	*08/27/18 23:38*	*1*
p-Terphenyl-d14	*102*		*59 - 136*	*08/23/18 07:40*	*08/27/18 23:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/27/18 09:26	08/28/18 14:58	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 14:58	1
Arsenic	**0.36**		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 14:58	1
Barium	**0.025**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 14:58	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 14:58	1
Cadmium	ND		0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 14:58	1
Calcium	**257**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:58	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 14:58	1
Cobalt	ND		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 14:58	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 14:58	1
Iron	**27.7**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 14:58	1
Lead	ND		0.020	0.0060	mg/L		08/27/18 09:26	08/29/18 12:45	2
Magnesium	**23.3**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 14:58	1
Manganese	**0.36**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 14:58	1
Nickel	ND		0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 14:58	1
Potassium	**16.3**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:58	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-05A_0818

Lab Sample ID: 480-140719-4

Date Collected: 08/22/18 09:45
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 14:58	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 14:58	1
Sodium	**99.7**		1.0	0.32	mg/L		08/27/18 09:26	08/28/18 14:58	1
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 14:58	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 14:58	1
Zinc	**0.029**		0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 14:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:10	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-06_0818

Lab Sample ID: 480-140719-5

Date Collected: 08/21/18 10:50

Matrix: Ground Water

Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			08/24/18 01:28	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			08/24/18 01:28	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			08/24/18 01:28	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			08/24/18 01:28	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			08/24/18 01:28	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			08/24/18 01:28	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			08/24/18 01:28	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			08/24/18 01:28	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			08/24/18 01:28	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			08/24/18 01:28	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			08/24/18 01:28	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			08/24/18 01:28	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			08/24/18 01:28	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			08/24/18 01:28	5
2-Butanone (MEK)	ND		50	6.6	ug/L			08/24/18 01:28	5
2-Hexanone	ND		25	6.2	ug/L			08/24/18 01:28	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			08/24/18 01:28	5
Acetone	ND		50	15	ug/L			08/24/18 01:28	5
Benzene	ND		5.0	2.1	ug/L			08/24/18 01:28	5
Bromodichloromethane	ND		5.0	2.0	ug/L			08/24/18 01:28	5
Bromoform	ND		5.0	1.3	ug/L			08/24/18 01:28	5
Bromomethane	ND		5.0	3.5	ug/L			08/24/18 01:28	5
Carbon disulfide	ND		5.0	0.95	ug/L			08/24/18 01:28	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			08/24/18 01:28	5
Chlorobenzene	ND		5.0	3.8	ug/L			08/24/18 01:28	5
Chloroethane	ND		5.0	1.6	ug/L			08/24/18 01:28	5
Chloroform	ND		5.0	1.7	ug/L			08/24/18 01:28	5
Chloromethane	ND		5.0	1.8	ug/L			08/24/18 01:28	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			08/24/18 01:28	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			08/24/18 01:28	5
Cyclohexane	ND		5.0	0.90	ug/L			08/24/18 01:28	5
Dibromochloromethane	ND		5.0	1.6	ug/L			08/24/18 01:28	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			08/24/18 01:28	5
Ethylbenzene	ND		5.0	3.7	ug/L			08/24/18 01:28	5
Isopropylbenzene	ND		5.0	4.0	ug/L			08/24/18 01:28	5
Methyl acetate	ND		13	6.5	ug/L			08/24/18 01:28	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			08/24/18 01:28	5
Methylcyclohexane	ND		5.0	0.80	ug/L			08/24/18 01:28	5
Methylene Chloride	ND		5.0	2.2	ug/L			08/24/18 01:28	5
Styrene	ND		5.0	3.7	ug/L			08/24/18 01:28	5
Tetrachloroethene	ND		5.0	1.8	ug/L			08/24/18 01:28	5
Toluene	ND		5.0	2.6	ug/L			08/24/18 01:28	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			08/24/18 01:28	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			08/24/18 01:28	5
Trichloroethene	ND		5.0	2.3	ug/L			08/24/18 01:28	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			08/24/18 01:28	5
Vinyl chloride	ND		5.0	4.5	ug/L			08/24/18 01:28	5
Xylenes, Total	ND		10	3.3	ug/L			08/24/18 01:28	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-06_0818

Date Collected: 08/21/18 10:50
Date Received: 08/22/18 14:40

Lab Sample ID: 480-140719-5

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*08/24/18 01:28*	*5*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/24/18 01:28*	*5*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/18 01:28*	*5*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*08/24/18 01:28*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
2,4,6-Trichlorophenol	ND	*	25	3.1	ug/L		08/23/18 07:40	08/28/18 00:08	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		08/23/18 07:40	08/28/18 00:08	5
2,4-Dinitrophenol	ND		50	11	ug/L		08/23/18 07:40	08/28/18 00:08	5
2,4-Dinitrotoluene	ND	*	25	2.2	ug/L		08/23/18 07:40	08/28/18 00:08	5
2,6-Dinitrotoluene	ND	*	25	2.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
2-Chloronaphthalene	ND		25	2.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
2-Chlorophenol	ND		25	2.7	ug/L		08/23/18 07:40	08/28/18 00:08	5
2-Methylnaphthalene	ND		25	3.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
2-Methylphenol	ND		25	2.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
2-Nitroaniline	ND	*	50	2.1	ug/L		08/23/18 07:40	08/28/18 00:08	5
2-Nitrophenol	ND		25	2.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
3-Nitroaniline	ND		50	2.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Bromophenyl phenyl ether	ND	*	25	2.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Chloroaniline	ND		25	3.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Chlorophenyl phenyl ether	ND	*	25	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Methylphenol	ND		50	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Nitroaniline	ND	*	50	1.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
4-Nitrophenol	ND		50	7.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
Acenaphthene	ND	*	25	2.1	ug/L		08/23/18 07:40	08/28/18 00:08	5
Acenaphthylene	ND	*	25	1.9	ug/L		08/23/18 07:40	08/28/18 00:08	5
Acetophenone	ND	*	25	2.7	ug/L		08/23/18 07:40	08/28/18 00:08	5
Aniline	ND		50	3.1	ug/L		08/23/18 07:40	08/28/18 00:08	5
Anthracene	ND	*	25	1.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
Atrazine	ND	*	25	2.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
Benzaldehyde	ND		25	1.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
Benzo(a)anthracene	ND	*	25	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
Benzo(a)pyrene	ND	*	25	2.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
Benzo(b)fluoranthene	ND	*	25	1.7	ug/L		08/23/18 07:40	08/28/18 00:08	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
Benzo(k)fluoranthene	ND	*	25	3.7	ug/L		08/23/18 07:40	08/28/18 00:08	5
Biphenyl	ND	*	25	3.3	ug/L		08/23/18 07:40	08/28/18 00:08	5
bis (2-chloroisopropyl) ether	ND	*	25	2.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		08/23/18 07:40	08/28/18 00:08	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
Caprolactam	ND		25	11	ug/L		08/23/18 07:40	08/28/18 00:08	5
Carbazole	ND	*	25	1.5	ug/L		08/23/18 07:40	08/28/18 00:08	5

Client Sample ID: BCC Area C PS-06_0818

Lab Sample ID: 480-140719-5

Date Collected: 08/21/18 10:50

Matrix: Ground Water

Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		25	1.7	ug/L		08/23/18 07:40	08/28/18 00:08	5
Dibenz(a,h)anthracene	ND	*	25	2.1	ug/L		08/23/18 07:40	08/28/18 00:08	5
Dibenzofuran	ND		50	2.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
Diethyl phthalate	ND	*	25	1.1	ug/L		08/23/18 07:40	08/28/18 00:08	5
Dimethyl phthalate	ND	*	25	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
Di-n-butyl phthalate	ND	*	25	1.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
Fluoranthene	ND	*	25	2.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
Fluorene	ND	*	25	1.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
Hexachlorobenzene	ND	*	25	2.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
Hexachlorobutadiene	ND		25	3.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
Hexachloroethane	ND		25	3.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
Indeno(1,2,3-cd)pyrene	ND	*	25	2.4	ug/L		08/23/18 07:40	08/28/18 00:08	5
Isophorone	ND	*	25	2.2	ug/L		08/23/18 07:40	08/28/18 00:08	5
Naphthalene	ND		25	3.8	ug/L		08/23/18 07:40	08/28/18 00:08	5
Nitrobenzene	ND		25	1.5	ug/L		08/23/18 07:40	08/28/18 00:08	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		08/23/18 07:40	08/28/18 00:08	5
N-Nitrosodiphenylamine	ND	*	25	2.6	ug/L		08/23/18 07:40	08/28/18 00:08	5
Pentachlorophenol	ND		50	11	ug/L		08/23/18 07:40	08/28/18 00:08	5
Phenanthrene	ND	*	25	2.2	ug/L		08/23/18 07:40	08/28/18 00:08	5
Phenol	ND		25	2.0	ug/L		08/23/18 07:40	08/28/18 00:08	5
Pyrene	ND	*	25	1.7	ug/L		08/23/18 07:40	08/28/18 00:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*41 - 120*	*08/23/18 07:40*	*08/28/18 00:08*	*5*
2-Fluorobiphenyl	*76*		*48 - 120*	*08/23/18 07:40*	*08/28/18 00:08*	*5*
2-Fluorophenol	*58*		*35 - 120*	*08/23/18 07:40*	*08/28/18 00:08*	*5*
Nitrobenzene-d5	*70*		*46 - 120*	*08/23/18 07:40*	*08/28/18 00:08*	*5*
Phenol-d5	*41*		*22 - 120*	*08/23/18 07:40*	*08/28/18 00:08*	*5*
p-Terphenyl-d14	*75*		*59 - 136*	*08/23/18 07:40*	*08/28/18 00:08*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.11**	**J**	0.20	0.060	mg/L		08/27/18 09:26	08/28/18 15:01	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 15:01	1
Arsenic	**0.095**		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 15:01	1
Barium	**0.012**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 15:01	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 15:01	1
Cadmium	ND		0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 15:01	1
Calcium	**208**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:01	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 15:01	1
Cobalt	ND		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 15:01	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 15:01	1
Iron	**35.5**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 15:01	1
Lead	ND		0.050	0.015	mg/L		08/27/18 09:26	08/29/18 12:49	5
Magnesium	**10.6**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 15:01	1
Manganese	**0.18**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 15:01	1
Nickel	ND		0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 15:01	1
Potassium	**57.6**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:01	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-06_0818

Lab Sample ID: 480-140719-5

Date Collected: 08/21/18 10:50
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 15:01	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 15:01	1
Sodium	**64.8**		1.0	0.32	mg/L		08/27/18 09:26	08/28/18 15:01	1
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 15:01	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 15:01	1
Zinc	**0.015**		0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 15:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:11	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-20_0818

Lab Sample ID: 480-140719-6

Date Collected: 08/22/18 08:50
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/18 01:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/18 01:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/24/18 01:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/18 01:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/18 01:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/18 01:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/24/18 01:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/18 01:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/18 01:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/18 01:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/18 01:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/18 01:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/24/18 01:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/18 01:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/18 01:51	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/18 01:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/18 01:51	1
Acetone	**3.9**	**J**	10	3.0	ug/L			08/24/18 01:51	1
Benzene	ND		1.0	0.41	ug/L			08/24/18 01:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/18 01:51	1
Bromoform	ND		1.0	0.26	ug/L			08/24/18 01:51	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/18 01:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/18 01:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/18 01:51	1
Chlorobenzene	**57**		1.0	0.75	ug/L			08/24/18 01:51	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/18 01:51	1
Chloroform	ND		1.0	0.34	ug/L			08/24/18 01:51	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/18 01:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/18 01:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/18 01:51	1
Cyclohexane	ND		1.0	0.18	ug/L			08/24/18 01:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/18 01:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/24/18 01:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/18 01:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/24/18 01:51	1
Methyl acetate	ND		2.5	1.3	ug/L			08/24/18 01:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/24/18 01:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/24/18 01:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/18 01:51	1
Styrene	ND		1.0	0.73	ug/L			08/24/18 01:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/18 01:51	1
Toluene	ND		1.0	0.51	ug/L			08/24/18 01:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/18 01:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/18 01:51	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/18 01:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/18 01:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/18 01:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/18 01:51	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-20_0818

Date Collected: 08/22/18 08:50
Date Received: 08/22/18 14:40

Lab Sample ID: 480-140719-6

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*08/24/18 01:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/24/18 01:51*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/24/18 01:51*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/24/18 01:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/28/18 00:38	1
2,4,6-Trichlorophenol	ND	*	5.0	0.61	ug/L		08/23/18 07:40	08/28/18 00:38	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/23/18 07:40	08/28/18 00:38	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/23/18 07:40	08/28/18 00:38	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/28/18 00:38	1
2,4-Dinitrotoluene	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/28/18 00:38	1
2,6-Dinitrotoluene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/28/18 00:38	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/23/18 07:40	08/28/18 00:38	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/23/18 07:40	08/28/18 00:38	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/23/18 07:40	08/28/18 00:38	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/23/18 07:40	08/28/18 00:38	1
2-Nitroaniline	ND	*	10	0.42	ug/L		08/23/18 07:40	08/28/18 00:38	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/28/18 00:38	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/23/18 07:40	08/28/18 00:38	1
3-Nitroaniline	ND		10	0.48	ug/L		08/23/18 07:40	08/28/18 00:38	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Bromophenyl phenyl ether	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Chlorophenyl phenyl ether	ND	*	5.0	0.35	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Methylphenol	ND		10	0.36	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Nitroaniline	ND	*	10	0.25	ug/L		08/23/18 07:40	08/28/18 00:38	1
4-Nitrophenol	ND		10	1.5	ug/L		08/23/18 07:40	08/28/18 00:38	1
Acenaphthene	ND	*	5.0	0.41	ug/L		08/23/18 07:40	08/28/18 00:38	1
Acenaphthylene	ND	*	5.0	0.38	ug/L		08/23/18 07:40	08/28/18 00:38	1
Acetophenone	ND	*	5.0	0.54	ug/L		08/23/18 07:40	08/28/18 00:38	1
Aniline	ND		10	0.61	ug/L		08/23/18 07:40	08/28/18 00:38	1
Anthracene	ND	*	5.0	0.28	ug/L		08/23/18 07:40	08/28/18 00:38	1
Atrazine	ND	*	5.0	0.46	ug/L		08/23/18 07:40	08/28/18 00:38	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/23/18 07:40	08/28/18 00:38	1
Benzo(a)anthracene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/28/18 00:38	1
Benzo(a)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/28/18 00:38	1
Benzo(b)fluoranthene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/28/18 00:38	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/23/18 07:40	08/28/18 00:38	1
Benzo(k)fluoranthene	ND	*	5.0	0.73	ug/L		08/23/18 07:40	08/28/18 00:38	1
Biphenyl	ND	*	5.0	0.65	ug/L		08/23/18 07:40	08/28/18 00:38	1
bis (2-chloroisopropyl) ether	ND	*	5.0	0.52	ug/L		08/23/18 07:40	08/28/18 00:38	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/23/18 07:40	08/28/18 00:38	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/23/18 07:40	08/28/18 00:38	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/23/18 07:40	08/28/18 00:38	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/23/18 07:40	08/28/18 00:38	1
Caprolactam	ND		5.0	2.2	ug/L		08/23/18 07:40	08/28/18 00:38	1
Carbazole	ND	*	5.0	0.30	ug/L		08/23/18 07:40	08/28/18 00:38	1

Client Sample ID: BCC Area C RFI-20_0818

Lab Sample ID: 480-140719-6

Date Collected: 08/22/18 08:50

Matrix: Ground Water

Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		08/23/18 07:40	08/28/18 00:38	1
Dibenz(a,h)anthracene	ND	*	5.0	0.42	ug/L		08/23/18 07:40	08/28/18 00:38	1
Dibenzofuran	ND		10	0.51	ug/L		08/23/18 07:40	08/28/18 00:38	1
Diethyl phthalate	ND	*	5.0	0.22	ug/L		08/23/18 07:40	08/28/18 00:38	1
Dimethyl phthalate	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/28/18 00:38	1
Di-n-butyl phthalate	**0.35**	**J B ***	5.0	0.31	ug/L		08/23/18 07:40	08/28/18 00:38	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/23/18 07:40	08/28/18 00:38	1
Fluoranthene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/28/18 00:38	1
Fluorene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/28/18 00:38	1
Hexachlorobenzene	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/28/18 00:38	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/23/18 07:40	08/28/18 00:38	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/23/18 07:40	08/28/18 00:38	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/23/18 07:40	08/28/18 00:38	1
Indeno(1,2,3-cd)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/28/18 00:38	1
Isophorone	ND	*	5.0	0.43	ug/L		08/23/18 07:40	08/28/18 00:38	1
Naphthalene	ND		5.0	0.76	ug/L		08/23/18 07:40	08/28/18 00:38	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/23/18 07:40	08/28/18 00:38	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/23/18 07:40	08/28/18 00:38	1
N-Nitrosodiphenylamine	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/28/18 00:38	1
Pentachlorophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/28/18 00:38	1
Phenanthrene	ND	*	5.0	0.44	ug/L		08/23/18 07:40	08/28/18 00:38	1
Phenol	ND		5.0	0.39	ug/L		08/23/18 07:40	08/28/18 00:38	1
Pyrene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/28/18 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*41 - 120*	*08/23/18 07:40*	*08/28/18 00:38*	*1*
2-Fluorobiphenyl	*87*		*48 - 120*	*08/23/18 07:40*	*08/28/18 00:38*	*1*
2-Fluorophenol	*61*		*35 - 120*	*08/23/18 07:40*	*08/28/18 00:38*	*1*
Nitrobenzene-d5	*78*		*46 - 120*	*08/23/18 07:40*	*08/28/18 00:38*	*1*
Phenol-d5	*42*		*22 - 120*	*08/23/18 07:40*	*08/28/18 00:38*	*1*
p-Terphenyl-d14	*84*		*59 - 136*	*08/23/18 07:40*	*08/28/18 00:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/27/18 09:26	08/28/18 15:05	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 15:05	1
Arsenic	ND		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 15:05	1
Barium	**0.053**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 15:05	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 15:05	1
Cadmium	ND		0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 15:05	1
Calcium	**177**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:05	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 15:05	1
Cobalt	ND		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 15:05	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 15:05	1
Iron	**6.5**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 15:05	1
Lead	ND		0.010	0.0030	mg/L		08/27/18 09:26	08/28/18 15:05	1
Magnesium	**16.3**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 15:05	1
Manganese	**0.30**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 15:05	1
Nickel	**0.0026**	**J**	0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 15:05	1
Potassium	**9.8**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:05	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-20_0818

Lab Sample ID: 480-140719-6

Date Collected: 08/22/18 08:50
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 15:05	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 15:05	1
Sodium	**35.8**		1.0	0.32	mg/L		08/27/18 09:26	08/28/18 15:05	1
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 15:05	1
Vanadium	**0.0017**	**J**	0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 15:05	1
Zinc	**0.0099**	**J**	0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 15:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:13	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-31_0818

Lab Sample ID: 480-140719-7

Date Collected: 08/22/18 08:00
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			08/24/18 02:14	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			08/24/18 02:14	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			08/24/18 02:14	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			08/24/18 02:14	10
1,1-Dichloroethane	ND		10	3.8	ug/L			08/24/18 02:14	10
1,1-Dichloroethene	ND		10	2.9	ug/L			08/24/18 02:14	10
1,2,4-Trichlorobenzene	**130**		10	4.1	ug/L			08/24/18 02:14	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			08/24/18 02:14	10
1,2-Dibromoethane	ND		10	7.3	ug/L			08/24/18 02:14	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			08/24/18 02:14	10
1,2-Dichloroethane	ND		10	2.1	ug/L			08/24/18 02:14	10
1,2-Dichloropropane	ND		10	7.2	ug/L			08/24/18 02:14	10
1,3-Dichlorobenzene	**51**		10	7.8	ug/L			08/24/18 02:14	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			08/24/18 02:14	10
2-Butanone (MEK)	ND		100	13	ug/L			08/24/18 02:14	10
2-Hexanone	ND		50	12	ug/L			08/24/18 02:14	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			08/24/18 02:14	10
Acetone	ND		100	30	ug/L			08/24/18 02:14	10
Benzene	ND		10	4.1	ug/L			08/24/18 02:14	10
Bromodichloromethane	ND		10	3.9	ug/L			08/24/18 02:14	10
Bromoform	ND		10	2.6	ug/L			08/24/18 02:14	10
Bromomethane	ND		10	6.9	ug/L			08/24/18 02:14	10
Carbon disulfide	ND		10	1.9	ug/L			08/24/18 02:14	10
Carbon tetrachloride	ND		10	2.7	ug/L			08/24/18 02:14	10
Chlorobenzene	**40**		10	7.5	ug/L			08/24/18 02:14	10
Chloroethane	ND		10	3.2	ug/L			08/24/18 02:14	10
Chloroform	ND		10	3.4	ug/L			08/24/18 02:14	10
Chloromethane	ND		10	3.5	ug/L			08/24/18 02:14	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			08/24/18 02:14	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			08/24/18 02:14	10
Cyclohexane	ND		10	1.8	ug/L			08/24/18 02:14	10
Dibromochloromethane	ND		10	3.2	ug/L			08/24/18 02:14	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			08/24/18 02:14	10
Ethylbenzene	ND		10	7.4	ug/L			08/24/18 02:14	10
Isopropylbenzene	ND		10	7.9	ug/L			08/24/18 02:14	10
Methyl acetate	ND		25	13	ug/L			08/24/18 02:14	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			08/24/18 02:14	10
Methylcyclohexane	ND		10	1.6	ug/L			08/24/18 02:14	10
Methylene Chloride	ND		10	4.4	ug/L			08/24/18 02:14	10
Styrene	ND		10	7.3	ug/L			08/24/18 02:14	10
Tetrachloroethene	ND		10	3.6	ug/L			08/24/18 02:14	10
Toluene	ND		10	5.1	ug/L			08/24/18 02:14	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			08/24/18 02:14	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			08/24/18 02:14	10
Trichloroethene	ND		10	4.6	ug/L			08/24/18 02:14	10
Trichlorofluoromethane	ND		10	8.8	ug/L			08/24/18 02:14	10
Vinyl chloride	ND		10	9.0	ug/L			08/24/18 02:14	10
Xylenes, Total	ND		20	6.6	ug/L			08/24/18 02:14	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-31_0818

Date Collected: 08/22/18 08:00
Date Received: 08/22/18 14:40

Lab Sample ID: 480-140719-7

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*08/24/18 02:14*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/24/18 02:14*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/18 02:14*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*08/24/18 02:14*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/28/18 01:07	1
2,4,6-Trichlorophenol	ND	*	5.0	0.61	ug/L		08/23/18 07:40	08/28/18 01:07	1
2,4-Dichlorophenol	**1.3**	**J**	5.0	0.51	ug/L		08/23/18 07:40	08/28/18 01:07	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/23/18 07:40	08/28/18 01:07	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/28/18 01:07	1
2,4-Dinitrotoluene	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/28/18 01:07	1
2,6-Dinitrotoluene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/28/18 01:07	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/23/18 07:40	08/28/18 01:07	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/23/18 07:40	08/28/18 01:07	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/23/18 07:40	08/28/18 01:07	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/23/18 07:40	08/28/18 01:07	1
2-Nitroaniline	ND	*	10	0.42	ug/L		08/23/18 07:40	08/28/18 01:07	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/28/18 01:07	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/23/18 07:40	08/28/18 01:07	1
3-Nitroaniline	ND		10	0.48	ug/L		08/23/18 07:40	08/28/18 01:07	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Bromophenyl phenyl ether	ND	*	5.0	0.45	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Chlorophenyl phenyl ether	ND	*	5.0	0.35	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Methylphenol	ND		10	0.36	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Nitroaniline	ND	*	10	0.25	ug/L		08/23/18 07:40	08/28/18 01:07	1
4-Nitrophenol	ND		10	1.5	ug/L		08/23/18 07:40	08/28/18 01:07	1
Acenaphthene	ND	*	5.0	0.41	ug/L		08/23/18 07:40	08/28/18 01:07	1
Acenaphthylene	ND	*	5.0	0.38	ug/L		08/23/18 07:40	08/28/18 01:07	1
Acetophenone	ND	*	5.0	0.54	ug/L		08/23/18 07:40	08/28/18 01:07	1
Aniline	ND		10	0.61	ug/L		08/23/18 07:40	08/28/18 01:07	1
Anthracene	ND	*	5.0	0.28	ug/L		08/23/18 07:40	08/28/18 01:07	1
Atrazine	ND	*	5.0	0.46	ug/L		08/23/18 07:40	08/28/18 01:07	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/23/18 07:40	08/28/18 01:07	1
Benzo(a)anthracene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/28/18 01:07	1
Benzo(a)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/28/18 01:07	1
Benzo(b)fluoranthene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/28/18 01:07	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/23/18 07:40	08/28/18 01:07	1
Benzo(k)fluoranthene	ND	*	5.0	0.73	ug/L		08/23/18 07:40	08/28/18 01:07	1
Biphenyl	ND	*	5.0	0.65	ug/L		08/23/18 07:40	08/28/18 01:07	1
bis (2-chloroisopropyl) ether	ND	*	5.0	0.52	ug/L		08/23/18 07:40	08/28/18 01:07	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/23/18 07:40	08/28/18 01:07	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/23/18 07:40	08/28/18 01:07	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/23/18 07:40	08/28/18 01:07	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/23/18 07:40	08/28/18 01:07	1
Caprolactam	ND		5.0	2.2	ug/L		08/23/18 07:40	08/28/18 01:07	1
Carbazole	ND	*	5.0	0.30	ug/L		08/23/18 07:40	08/28/18 01:07	1

Client Sample ID: BCC Area C RFI-31_0818

Lab Sample ID: 480-140719-7
Date Collected: 08/22/18 08:00
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		08/23/18 07:40	08/28/18 01:07	1
Dibenz(a,h)anthracene	ND	*	5.0	0.42	ug/L		08/23/18 07:40	08/28/18 01:07	1
Dibenzofuran	ND		10	0.51	ug/L		08/23/18 07:40	08/28/18 01:07	1
Diethyl phthalate	ND	*	5.0	0.22	ug/L		08/23/18 07:40	08/28/18 01:07	1
Dimethyl phthalate	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/28/18 01:07	1
Di-n-butyl phthalate	**0.41**	**J B ***	5.0	0.31	ug/L		08/23/18 07:40	08/28/18 01:07	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/23/18 07:40	08/28/18 01:07	1
Fluoranthene	ND	*	5.0	0.40	ug/L		08/23/18 07:40	08/28/18 01:07	1
Fluorene	ND	*	5.0	0.36	ug/L		08/23/18 07:40	08/28/18 01:07	1
Hexachlorobenzene	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/28/18 01:07	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/23/18 07:40	08/28/18 01:07	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/23/18 07:40	08/28/18 01:07	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/23/18 07:40	08/28/18 01:07	1
Indeno(1,2,3-cd)pyrene	ND	*	5.0	0.47	ug/L		08/23/18 07:40	08/28/18 01:07	1
Isophorone	ND	*	5.0	0.43	ug/L		08/23/18 07:40	08/28/18 01:07	1
Naphthalene	ND		5.0	0.76	ug/L		08/23/18 07:40	08/28/18 01:07	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/23/18 07:40	08/28/18 01:07	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/23/18 07:40	08/28/18 01:07	1
N-Nitrosodiphenylamine	ND	*	5.0	0.51	ug/L		08/23/18 07:40	08/28/18 01:07	1
Pentachlorophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/28/18 01:07	1
Phenanthrene	ND	*	5.0	0.44	ug/L		08/23/18 07:40	08/28/18 01:07	1
Phenol	ND		5.0	0.39	ug/L		08/23/18 07:40	08/28/18 01:07	1
Pyrene	ND	*	5.0	0.34	ug/L		08/23/18 07:40	08/28/18 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*08/23/18 07:40*	*08/28/18 01:07*	*1*
2-Fluorobiphenyl	*87*		*48 - 120*	*08/23/18 07:40*	*08/28/18 01:07*	*1*
2-Fluorophenol	*63*		*35 - 120*	*08/23/18 07:40*	*08/28/18 01:07*	*1*
Nitrobenzene-d5	*79*		*46 - 120*	*08/23/18 07:40*	*08/28/18 01:07*	*1*
Phenol-d5	*44*		*22 - 120*	*08/23/18 07:40*	*08/28/18 01:07*	*1*
p-Terphenyl-d14	*79*		*59 - 136*	*08/23/18 07:40*	*08/28/18 01:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/27/18 09:26	08/28/18 15:09	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 15:09	1
Arsenic	ND		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 15:09	1
Barium	**0.020**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 15:09	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 15:09	1
Cadmium	**0.00062**	**J**	0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 15:09	1
Calcium	**362**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:09	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 15:09	1
Cobalt	**0.0026**	**J**	0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 15:09	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 15:09	1
Iron	**0.55**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 15:09	1
Lead	ND		0.10	0.030	mg/L		08/27/18 09:26	08/29/18 13:03	10
Magnesium	**117**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 15:09	1
Manganese	**1.5**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 15:09	1
Nickel	**0.0035**	**J**	0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 15:09	1
Potassium	**20.6**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:09	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-31_0818

Lab Sample ID: 480-140719-7

Date Collected: 08/22/18 08:00
Matrix: Ground Water
Date Received: 08/22/18 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 15:09	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 15:09	1
Sodium	**2020**		10.0	3.2	mg/L		08/27/18 09:26	08/29/18 13:03	10
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 15:09	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 15:09	1
Zinc	**0.0045**	**J**	0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 15:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:15	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-140719-8

Date Collected: 08/22/18 00:00
Date Received: 08/22/18 14:40

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/24/18 02:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/24/18 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/24/18 02:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/24/18 02:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/24/18 02:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/24/18 02:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/24/18 02:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/24/18 02:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/24/18 02:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/24/18 02:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/24/18 02:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/24/18 02:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/24/18 02:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/24/18 02:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/24/18 02:38	1
2-Hexanone	ND		5.0	1.2	ug/L			08/24/18 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/24/18 02:38	1
Acetone	ND		10	3.0	ug/L			08/24/18 02:38	1
Benzene	ND		1.0	0.41	ug/L			08/24/18 02:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/24/18 02:38	1
Bromoform	ND		1.0	0.26	ug/L			08/24/18 02:38	1
Bromomethane	ND		1.0	0.69	ug/L			08/24/18 02:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/24/18 02:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/24/18 02:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/24/18 02:38	1
Chloroethane	ND		1.0	0.32	ug/L			08/24/18 02:38	1
Chloroform	ND		1.0	0.34	ug/L			08/24/18 02:38	1
Chloromethane	ND		1.0	0.35	ug/L			08/24/18 02:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/24/18 02:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/24/18 02:38	1
Cyclohexane	ND		1.0	0.18	ug/L			08/24/18 02:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/24/18 02:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/24/18 02:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/24/18 02:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/24/18 02:38	1
Methyl acetate	ND		2.5	1.3	ug/L			08/24/18 02:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/24/18 02:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/24/18 02:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/24/18 02:38	1
Styrene	ND		1.0	0.73	ug/L			08/24/18 02:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/24/18 02:38	1
Toluene	ND		1.0	0.51	ug/L			08/24/18 02:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/24/18 02:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/24/18 02:38	1
Trichloroethene	ND		1.0	0.46	ug/L			08/24/18 02:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/24/18 02:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/24/18 02:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/24/18 02:38	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-140719-8

Date Collected: 08/22/18 00:00

Matrix: Water

Date Received: 08/22/18 14:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		08/24/18 02:38	1
4-Bromofluorobenzene (Surr)	99		73 - 120		08/24/18 02:38	1
Toluene-d8 (Surr)	98		80 - 120		08/24/18 02:38	1
Dibromofluoromethane (Surr)	98		75 - 123		08/24/18 02:38	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-COIF_0818

Lab Sample ID: 480-140719-9

Date Collected: 08/21/18 14:50
Date Received: 08/22/18 14:40

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/27/18 09:26	08/28/18 15:12	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 15:12	1
Arsenic	ND		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 15:12	1
Barium	**0.32**		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 15:12	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 15:12	1
Cadmium	**0.0011**	**J**	0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 15:12	1
Calcium	**348**	**B**	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:12	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 15:12	1
Cobalt	**0.0017**	**J**	0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 15:12	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 15:12	1
Iron	**0.40**		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 15:12	1
Lead	ND		0.010	0.0030	mg/L		08/27/18 09:26	08/28/18 15:12	1
Magnesium	**98.3**		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 15:12	1
Manganese	**1.0**	**B**	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 15:12	1
Nickel	**0.0044**	**J**	0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 15:12	1
Potassium	**33.3**		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 15:12	1
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 15:12	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 15:12	1
Sodium	**4040**		10.0	3.2	mg/L		08/27/18 09:26	08/29/18 13:07	10
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 15:12	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 15:12	1
Zinc	**0.062**		0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 15:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 17:20	1

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-140719-1	BCC Area C MW-C04_0818	104	99	99	101
480-140719-1 MS	BCC Area C MW-C04 MS_0818	100	98	99	98
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	98	99	99	99
480-140719-2	BCC Area C MW-C01_0818	106	101	100	102
480-140719-3	BCC Area C MW-C04 D_0818	105	98	99	100
480-140719-4	BCC Area C PS-05A_0818	105	99	100	98
480-140719-5	BCC Area C PS-06_0818	98	97	100	99
480-140719-6	BCC Area C RFI-20_0818	103	97	96	100
480-140719-7	BCC Area C RFI-31_0818	104	98	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-140719-8	TRIP BLANK	97	99	98	98
LCS 480-431217/5	Lab Control Sample	98	103	101	97
MB 480-431217/7	Method Blank	99	102	100	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-140719-1	BCC Area C MW-C04_0818	89	91	64	83	43	75
480-140719-1 MS	BCC Area C MW-C04 MS_0818	90	87	63	79	51	63
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	92	99	71	90	55	68
480-140719-2	BCC Area C MW-C01_0818	57	77	60	69	45	70
480-140719-3	BCC Area C MW-C04 D_0818	91	93	61	80	42	80
480-140719-4	BCC Area C PS-05A_0818	95	104	71	92	48	102
480-140719-5	BCC Area C PS-06_0818	60	76	58	70	41	75
480-140719-6	BCC Area C RFI-20_0818	84	87	61	78	42	84
480-140719-7	BCC Area C RFI-31_0818	89	87	63	79	44	79

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	**Client Sample ID**	**(41-120)**	**(48-120)**	**(35-120)**	**(46-120)**	**(22-120)**	**(59-136)**
LCS 480-431041/2-A	Lab Control Sample	100	105	80	97	63	114
MB 480-431041/1-A	Method Blank	72	103	77	94	54	132

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-431217/7
Matrix: Water
Analysis Batch: 431217

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/23/18 21:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/23/18 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/23/18 21:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/23/18 21:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/23/18 21:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/23/18 21:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/23/18 21:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/23/18 21:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/23/18 21:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/23/18 21:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/23/18 21:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/23/18 21:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/23/18 21:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/23/18 21:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/23/18 21:02	1
2-Hexanone	ND		5.0	1.2	ug/L			08/23/18 21:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/23/18 21:02	1
Acetone	ND		10	3.0	ug/L			08/23/18 21:02	1
Benzene	ND		1.0	0.41	ug/L			08/23/18 21:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/23/18 21:02	1
Bromoform	ND		1.0	0.26	ug/L			08/23/18 21:02	1
Bromomethane	ND		1.0	0.69	ug/L			08/23/18 21:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/23/18 21:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/23/18 21:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/23/18 21:02	1
Chloroethane	ND		1.0	0.32	ug/L			08/23/18 21:02	1
Chloroform	ND		1.0	0.34	ug/L			08/23/18 21:02	1
Chloromethane	ND		1.0	0.35	ug/L			08/23/18 21:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/23/18 21:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/23/18 21:02	1
Cyclohexane	ND		1.0	0.18	ug/L			08/23/18 21:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/23/18 21:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/23/18 21:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/23/18 21:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/23/18 21:02	1
Methyl acetate	ND		2.5	1.3	ug/L			08/23/18 21:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/23/18 21:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/23/18 21:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/23/18 21:02	1
Styrene	ND		1.0	0.73	ug/L			08/23/18 21:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/23/18 21:02	1
Toluene	ND		1.0	0.51	ug/L			08/23/18 21:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/23/18 21:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/23/18 21:02	1
Trichloroethene	ND		1.0	0.46	ug/L			08/23/18 21:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/23/18 21:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/23/18 21:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/23/18 21:02	1

QC Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		08/23/18 21:02	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/23/18 21:02	1
Toluene-d8 (Surr)	100		80 - 120		08/23/18 21:02	1
Dibromofluoromethane (Surr)	96		75 - 123		08/23/18 21:02	1

Lab Sample ID: LCS 480-431217/5
Matrix: Water
Analysis Batch: 431217

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.8		ug/L		99	61 - 148
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	76 - 122
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	27.6		ug/L		110	66 - 127
1,2,4-Trichlorobenzene	25.0	23.5		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	56 - 134
1,2-Dibromoethane	25.0	25.9		ug/L		104	77 - 120
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.4		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2-Butanone (MEK)	125	130		ug/L		104	57 - 140
2-Hexanone	125	135		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	24.8		ug/L		99	80 - 122
Bromoform	25.0	27.2		ug/L		109	61 - 132
Bromomethane	25.0	25.0		ug/L		100	55 - 144
Carbon disulfide	25.0	26.7		ug/L		107	59 - 134
Carbon tetrachloride	25.0	28.6		ug/L		114	72 - 134
Chlorobenzene	25.0	25.4		ug/L		102	80 - 120
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	24.6		ug/L		98	73 - 127
Chloromethane	25.0	23.3		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	74 - 124
Cyclohexane	25.0	26.3		ug/L		105	59 - 135
Dibromochloromethane	25.0	29.3		ug/L		117	75 - 125
Dichlorodifluoromethane	25.0	26.1		ug/L		104	59 - 135
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
Isopropylbenzene	25.0	25.7		ug/L		103	77 - 122
Methyl acetate	50.0	50.0		ug/L		100	74 - 133
Methyl tert-butyl ether	25.0	25.3		ug/L		101	77 - 120
Methylcyclohexane	25.0	26.5		ug/L		106	68 - 134
Methylene Chloride	25.0	25.5		ug/L		102	75 - 124
Styrene	25.0	25.3		ug/L		101	80 - 120
Tetrachloroethene	25.0	26.4		ug/L		106	74 - 122
Toluene	25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127

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

Lab Sample ID: LCS 480-431217/5
Matrix: Water
Analysis Batch: 431217

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	80 - 120
Trichloroethene	25.0	26.1		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	27.4		ug/L		110	62 - 150
Vinyl chloride	25.0	25.7		ug/L		103	65 - 133
Xylenes, Total	50.0	51.7		ug/L		103	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: 480-140719-1 MS
Matrix: Ground Water
Analysis Batch: 431217

Client Sample ID: BCC Area C MW-C04 MS_0818
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		125	129		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	ND		125	127		ug/L		102	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		125	111		ug/L		89	61 - 148
1,1,2-Trichloroethane	ND		125	122		ug/L		98	76 - 122
1,1-Dichloroethane	ND		125	126		ug/L		101	77 - 120
1,1-Dichloroethene	ND		125	130		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	ND		125	112		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	ND		125	122		ug/L		98	56 - 134
1,2-Dibromoethane	ND		125	124		ug/L		99	77 - 120
1,2-Dichlorobenzene	5.4		125	120		ug/L		92	80 - 124
1,2-Dichloroethane	ND		125	118		ug/L		95	75 - 120
1,2-Dichloropropane	ND		125	132		ug/L		105	76 - 120
1,3-Dichlorobenzene	31		125	135		ug/L		83	77 - 120
1,4-Dichlorobenzene	59	F1	125	144	F1	ug/L		69	78 - 124
2-Butanone (MEK)	ND		625	651		ug/L		104	57 - 140
2-Hexanone	ND		625	658		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		625	645		ug/L		103	71 - 125
Acetone	ND		625	578		ug/L		93	56 - 142
Benzene	ND		125	122		ug/L		98	71 - 124
Bromodichloromethane	ND		125	126		ug/L		101	80 - 122
Bromoform	ND		125	127		ug/L		101	61 - 132
Bromomethane	ND		125	124		ug/L		99	55 - 144
Carbon disulfide	ND		125	127		ug/L		101	59 - 134
Carbon tetrachloride	ND		125	133		ug/L		107	72 - 134
Chlorobenzene	480	F1	125	334	F1	ug/L		-114	80 - 120
Chloroethane	ND		125	107		ug/L		86	69 - 136
Chloroform	ND		125	122		ug/L		98	73 - 127
Chloromethane	ND		125	122		ug/L		98	68 - 124
cis-1,2-Dichloroethene	ND		125	127		ug/L		102	74 - 124
cis-1,3-Dichloropropene	ND		125	126		ug/L		101	74 - 124

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

Lab Sample ID: 480-140719-1 MS
Matrix: Ground Water
Analysis Batch: 431217

Client Sample ID: BCC Area C MW-C04 MS_0818
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	ND		125	119		ug/L		95	59 - 135
Dibromochloromethane	ND		125	132		ug/L		106	75 - 125
Dichlorodifluoromethane	ND		125	125		ug/L		100	59 - 135
Ethylbenzene	ND		125	121		ug/L		97	77 - 123
Isopropylbenzene	ND		125	119		ug/L		95	77 - 122
Methyl acetate	ND		250	251		ug/L		101	74 - 133
Methyl tert-butyl ether	ND		125	127		ug/L		102	77 - 120
Methylcyclohexane	ND		125	118		ug/L		95	68 - 134
Methylene Chloride	ND		125	123		ug/L		99	75 - 124
Styrene	ND		125	123		ug/L		98	80 - 120
Tetrachloroethene	ND		125	121		ug/L		97	74 - 122
Toluene	ND		125	123		ug/L		98	80 - 122
trans-1,2-Dichloroethene	ND		125	125		ug/L		100	73 - 127
trans-1,3-Dichloropropene	ND		125	119		ug/L		95	80 - 120
Trichloroethene	ND		125	122		ug/L		97	74 - 123
Trichlorofluoromethane	ND		125	125		ug/L		100	62 - 150
Vinyl chloride	ND		125	123		ug/L		99	65 - 133
Xylenes, Total	ND		250	247		ug/L		99	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-140719-1 MSD
Matrix: Ground Water
Analysis Batch: 431217

Client Sample ID: BCC Area C MW-C04 MSD_0818
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		125	127		ug/L		102	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		125	125		ug/L		100	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		125	104		ug/L		83	61 - 148	7	20
1,1,2-Trichloroethane	ND		125	118		ug/L		94	76 - 122	3	15
1,1-Dichloroethane	ND		125	118		ug/L		94	77 - 120	7	20
1,1-Dichloroethene	ND		125	123		ug/L		99	66 - 127	6	16
1,2,4-Trichlorobenzene	ND		125	117		ug/L		93	79 - 122	4	20
1,2-Dibromo-3-Chloropropane	ND		125	126		ug/L		101	56 - 134	3	15
1,2-Dibromoethane	ND		125	123		ug/L		99	77 - 120	0	15
1,2-Dichlorobenzene	5.4		125	118		ug/L		90	80 - 124	1	20
1,2-Dichloroethane	ND		125	115		ug/L		92	75 - 120	3	20
1,2-Dichloropropane	ND		125	124		ug/L		99	76 - 120	6	20
1,3-Dichlorobenzene	31		125	132		ug/L		80	77 - 120	3	20
1,4-Dichlorobenzene	59	F1	125	143	F1	ug/L		67	78 - 124	1	20
2-Butanone (MEK)	ND		625	626		ug/L		100	57 - 140	4	20
2-Hexanone	ND		625	641		ug/L		103	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		625	634		ug/L		101	71 - 125	2	35

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

Lab Sample ID: 480-140719-1 MSD
Matrix: Ground Water
Analysis Batch: 431217

Client Sample ID: BCC Area C MW-C04 MSD_0818
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		625	579		ug/L		93	56 - 142	0	15
Benzene	ND		125	117		ug/L		94	71 - 124	5	13
Bromodichloromethane	ND		125	120		ug/L		96	80 - 122	5	15
Bromoform	ND		125	120		ug/L		96	61 - 132	5	15
Bromomethane	ND		125	123		ug/L		99	55 - 144	1	15
Carbon disulfide	ND		125	121		ug/L		97	59 - 134	4	15
Carbon tetrachloride	ND		125	128		ug/L		103	72 - 134	4	15
Chlorobenzene	480	F1	125	324	F1	ug/L		-122	80 - 120	3	25
Chloroethane	ND		125	115		ug/L		92	69 - 136	7	15
Chloroform	ND		125	119		ug/L		95	73 - 127	3	20
Chloromethane	ND		125	122		ug/L		98	68 - 124	0	15
cis-1,2-Dichloroethene	ND		125	122		ug/L		97	74 - 124	4	15
cis-1,3-Dichloropropene	ND		125	121		ug/L		97	74 - 124	4	15
Cyclohexane	ND		125	117		ug/L		94	59 - 135	2	20
Dibromochloromethane	ND		125	132		ug/L		105	75 - 125	1	15
Dichlorodifluoromethane	ND		125	119		ug/L		95	59 - 135	5	20
Ethylbenzene	ND		125	114		ug/L		91	77 - 123	6	15
Isopropylbenzene	ND		125	116		ug/L		92	77 - 122	3	20
Methyl acetate	ND		250	248		ug/L		99	74 - 133	1	20
Methyl tert-butyl ether	ND		125	122		ug/L		98	77 - 120	4	37
Methylcyclohexane	ND		125	116		ug/L		93	68 - 134	2	20
Methylene Chloride	ND		125	123		ug/L		99	75 - 124	0	15
Styrene	ND		125	118		ug/L		94	80 - 120	4	20
Tetrachloroethene	ND		125	112		ug/L		90	74 - 122	8	20
Toluene	ND		125	116		ug/L		93	80 - 122	6	15
trans-1,2-Dichloroethene	ND		125	121		ug/L		97	73 - 127	3	20
trans-1,3-Dichloropropene	ND		125	121		ug/L		97	80 - 120	2	15
Trichloroethene	ND		125	121		ug/L		97	74 - 123	0	16
Trichlorofluoromethane	ND		125	123		ug/L		98	62 - 150	1	20
Vinyl chloride	ND		125	121		ug/L		97	65 - 133	2	15
Xylenes, Total	ND		250	235		ug/L		94	76 - 122	5	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

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

Lab Sample ID: MB 480-431041/1-A
Matrix: Water
Analysis Batch: 431619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 19:45	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		08/23/18 07:40	08/27/18 19:45	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/23/18 07:40	08/27/18 19:45	1

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

Lab Sample ID: MB 480-431041/1-A
Matrix: Water
Analysis Batch: 431619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/23/18 07:40	08/27/18 19:45	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 19:45	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		08/23/18 07:40	08/27/18 19:45	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 19:45	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/23/18 07:40	08/27/18 19:45	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/23/18 07:40	08/27/18 19:45	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/23/18 07:40	08/27/18 19:45	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 19:45	1
2-Nitroaniline	ND		10	0.42	ug/L		08/23/18 07:40	08/27/18 19:45	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/23/18 07:40	08/27/18 19:45	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 19:45	1
3-Nitroaniline	ND		10	0.48	ug/L		08/23/18 07:40	08/27/18 19:45	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Methylphenol	ND		10	0.36	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Nitroaniline	ND		10	0.25	ug/L		08/23/18 07:40	08/27/18 19:45	1
4-Nitrophenol	ND		10	1.5	ug/L		08/23/18 07:40	08/27/18 19:45	1
Acenaphthene	ND		5.0	0.41	ug/L		08/23/18 07:40	08/27/18 19:45	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/23/18 07:40	08/27/18 19:45	1
Acetophenone	ND		5.0	0.54	ug/L		08/23/18 07:40	08/27/18 19:45	1
Aniline	ND		10	0.61	ug/L		08/23/18 07:40	08/27/18 19:45	1
Anthracene	ND		5.0	0.28	ug/L		08/23/18 07:40	08/27/18 19:45	1
Atrazine	ND		5.0	0.46	ug/L		08/23/18 07:40	08/27/18 19:45	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/23/18 07:40	08/27/18 19:45	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		08/23/18 07:40	08/27/18 19:45	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		08/23/18 07:40	08/27/18 19:45	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		08/23/18 07:40	08/27/18 19:45	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 19:45	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		08/23/18 07:40	08/27/18 19:45	1
Biphenyl	ND		5.0	0.65	ug/L		08/23/18 07:40	08/27/18 19:45	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		08/23/18 07:40	08/27/18 19:45	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/23/18 07:40	08/27/18 19:45	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 19:45	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 19:45	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/23/18 07:40	08/27/18 19:45	1
Caprolactam	ND		5.0	2.2	ug/L		08/23/18 07:40	08/27/18 19:45	1
Carbazole	ND		5.0	0.30	ug/L		08/23/18 07:40	08/27/18 19:45	1
Chrysene	ND		5.0	0.33	ug/L		08/23/18 07:40	08/27/18 19:45	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/23/18 07:40	08/27/18 19:45	1
Dibenzofuran	ND		10	0.51	ug/L		08/23/18 07:40	08/27/18 19:45	1
Diethyl phthalate	ND		5.0	0.22	ug/L		08/23/18 07:40	08/27/18 19:45	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		08/23/18 07:40	08/27/18 19:45	1
Di-n-butyl phthalate	0.430	J	5.0	0.31	ug/L		08/23/18 07:40	08/27/18 19:45	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/23/18 07:40	08/27/18 19:45	1
Fluoranthene	ND		5.0	0.40	ug/L		08/23/18 07:40	08/27/18 19:45	1

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

Lab Sample ID: MB 480-431041/1-A
Matrix: Water
Analysis Batch: 431619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		5.0	0.36	ug/L		08/23/18 07:40	08/27/18 19:45	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		08/23/18 07:40	08/27/18 19:45	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/23/18 07:40	08/27/18 19:45	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 19:45	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/23/18 07:40	08/27/18 19:45	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		08/23/18 07:40	08/27/18 19:45	1
Isophorone	ND		5.0	0.43	ug/L		08/23/18 07:40	08/27/18 19:45	1
Naphthalene	ND		5.0	0.76	ug/L		08/23/18 07:40	08/27/18 19:45	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/23/18 07:40	08/27/18 19:45	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/23/18 07:40	08/27/18 19:45	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		08/23/18 07:40	08/27/18 19:45	1
Pentachlorophenol	ND		10	2.2	ug/L		08/23/18 07:40	08/27/18 19:45	1
Phenanthrene	ND		5.0	0.44	ug/L		08/23/18 07:40	08/27/18 19:45	1
Phenol	ND		5.0	0.39	ug/L		08/23/18 07:40	08/27/18 19:45	1
Pyrene	ND		5.0	0.34	ug/L		08/23/18 07:40	08/27/18 19:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*41 - 120*	*08/23/18 07:40*	*08/27/18 19:45*	*1*
2-Fluorobiphenyl	*103*		*48 - 120*	*08/23/18 07:40*	*08/27/18 19:45*	*1*
2-Fluorophenol	*77*		*35 - 120*	*08/23/18 07:40*	*08/27/18 19:45*	*1*
Nitrobenzene-d5	*94*		*46 - 120*	*08/23/18 07:40*	*08/27/18 19:45*	*1*
Phenol-d5	*54*		*22 - 120*	*08/23/18 07:40*	*08/27/18 19:45*	*1*
p-Terphenyl-d14	*132*		*59 - 136*	*08/23/18 07:40*	*08/27/18 19:45*	*1*

Lab Sample ID: LCS 480-431041/2-A
Matrix: Water
Analysis Batch: 431619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	38.2		ug/L		119	65 - 126
2,4,6-Trichlorophenol	32.0	39.0	*	ug/L		122	64 - 120
2,4-Dichlorophenol	32.0	36.5		ug/L		114	63 - 120
2,4-Dimethylphenol	32.0	37.0		ug/L		116	47 - 120
2,4-Dinitrophenol	64.0	73.7		ug/L		115	31 - 137
2,4-Dinitrotoluene	32.0	40.3	*	ug/L		126	69 - 120
2,6-Dinitrotoluene	32.0	40.8	*	ug/L		128	68 - 120
2-Chloronaphthalene	32.0	37.9		ug/L		118	58 - 120
2-Chlorophenol	32.0	38.1		ug/L		119	48 - 120
2-Methylnaphthalene	32.0	35.3		ug/L		110	59 - 120
2-Methylphenol	32.0	35.4		ug/L		110	39 - 120
2-Nitroaniline	32.0	42.8	*	ug/L		134	54 - 127
2-Nitrophenol	32.0	38.6		ug/L		121	52 - 125
3,3'-Dichlorobenzidine	64.0	63.3		ug/L		99	49 - 135
3-Nitroaniline	32.0	32.5		ug/L		102	51 - 120
4,6-Dinitro-2-methylphenol	64.0	73.0		ug/L		114	46 - 136
4-Bromophenyl phenyl ether	32.0	39.7	*	ug/L		124	65 - 120
4-Chloro-3-methylphenol	32.0	35.1		ug/L		110	61 - 123
4-Chloroaniline	32.0	31.1		ug/L		97	30 - 120

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

Lab Sample ID: LCS 480-431041/2-A
Matrix: Water
Analysis Batch: 431619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	32.0	39.8	*	ug/L		124	62 - 120
4-Methylphenol	32.0	39.1		ug/L		122	29 - 131
4-Nitroaniline	32.0	43.6	*	ug/L		136	65 - 120
4-Nitrophenol	64.0	61.7		ug/L		96	45 - 120
Acenaphthene	32.0	42.7	*	ug/L		133	60 - 120
Acenaphthylene	32.0	43.3	*	ug/L		135	63 - 120
Acetophenone	32.0	40.9	*	ug/L		128	45 - 120
Aniline	32.0	27.4		ug/L		86	12 - 120
Anthracene	32.0	44.0	*	ug/L		138	67 - 120
Atrazine	64.0	109	*	ug/L		171	71 - 130
Benzaldehyde	64.0	75.6		ug/L		118	10 - 140
Benzo(a)anthracene	32.0	40.0	*	ug/L		125	70 - 121
Benzo(a)pyrene	32.0	43.4	*	ug/L		136	60 - 123
Benzo(b)fluoranthene	32.0	43.6	*	ug/L		136	66 - 126
Benzo(g,h,i)perylene	32.0	43.5		ug/L		136	66 - 150
Benzo(k)fluoranthene	32.0	45.8	*	ug/L		143	65 - 124
Biphenyl	32.0	39.1	*	ug/L		122	59 - 120
bis (2-chloroisopropyl) ether	32.0	43.7	*	ug/L		137	21 - 136
Bis(2-chloroethoxy)methane	32.0	34.8		ug/L		109	50 - 128
Bis(2-chloroethyl)ether	32.0	33.6		ug/L		105	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	38.1		ug/L		119	63 - 139
Butyl benzyl phthalate	32.0	39.9		ug/L		125	70 - 129
Caprolactam	64.0	27.2		ug/L		42	22 - 120
Carbazole	32.0	44.4	*	ug/L		139	66 - 123
Chrysene	32.0	38.2		ug/L		119	69 - 120
Dibenz(a,h)anthracene	32.0	52.4	*	ug/L		164	65 - 135
Dibenzofuran	32.0	38.4		ug/L		120	66 - 120
Diethyl phthalate	32.0	46.8	*	ug/L		146	59 - 127
Dimethyl phthalate	32.0	42.4	*	ug/L		132	68 - 120
Di-n-butyl phthalate	32.0	45.5	*	ug/L		142	69 - 131
Di-n-octyl phthalate	32.0	36.7		ug/L		115	63 - 140
Fluoranthene	32.0	44.5	*	ug/L		139	69 - 126
Fluorene	32.0	45.1	*	ug/L		141	66 - 120
Hexachlorobenzene	32.0	43.9	*	ug/L		137	61 - 120
Hexachlorobutadiene	32.0	29.8		ug/L		93	35 - 120
Hexachlorocyclopentadiene	32.0	15.2		ug/L		47	31 - 120
Hexachloroethane	32.0	32.0		ug/L		100	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	51.9	*	ug/L		162	69 - 146
Isophorone	32.0	40.2	*	ug/L		126	55 - 120
Naphthalene	32.0	34.0		ug/L		106	57 - 120
Nitrobenzene	32.0	37.1		ug/L		116	53 - 123
N-Nitrosodi-n-propylamine	32.0	40.4		ug/L		126	32 - 140
N-Nitrosodiphenylamine	32.0	42.4	*	ug/L		132	61 - 120
Pentachlorophenol	64.0	51.4		ug/L		80	29 - 136
Phenanthrene	32.0	41.9	*	ug/L		131	68 - 120
Phenol	32.0	23.4		ug/L		73	17 - 120
Pyrene	32.0	40.6	*	ug/L		127	70 - 125

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

Lab Sample ID: LCS 480-431041/2-A
Matrix: Water
Analysis Batch: 431619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431041

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*41 - 120*
2-Fluorobiphenyl	*105*		*48 - 120*
2-Fluorophenol	*80*		*35 - 120*
Nitrobenzene-d5	*97*		*46 - 120*
Phenol-d5	*63*		*22 - 120*
p-Terphenyl-d14	*114*		*59 - 136*

Lab Sample ID: 480-140719-1 MS
Matrix: Ground Water
Analysis Batch: 431619

Client Sample ID: BCC Area C MW-C04 MS_0818
Prep Type: Total/NA
Prep Batch: 431041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	31.4		ug/L		98	65 - 126
2,4,6-Trichlorophenol	ND	F1 *	32.0	36.8		ug/L		115	64 - 120
2,4-Dichlorophenol	5.0		32.0	37.9		ug/L		103	48 - 132
2,4-Dimethylphenol	ND		32.0	31.4		ug/L		98	39 - 130
2,4-Dinitrophenol	ND		64.0	61.2		ug/L		96	21 - 150
2,4-Dinitrotoluene	ND	*	32.0	29.1		ug/L		91	54 - 138
2,6-Dinitrotoluene	ND	*	32.0	33.6		ug/L		105	17 - 150
2-Chloronaphthalene	ND		32.0	31.4		ug/L		98	52 - 124
2-Chlorophenol	ND		32.0	32.4		ug/L		101	48 - 120
2-Methylnaphthalene	ND		32.0	30.5		ug/L		95	34 - 140
2-Methylphenol	ND		32.0	29.9		ug/L		93	46 - 120
2-Nitroaniline	ND	*	32.0	35.3		ug/L		110	44 - 136
2-Nitrophenol	ND		32.0	33.2		ug/L		104	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	26.1		ug/L		41	10 - 150
3-Nitroaniline	ND		32.0	18.5		ug/L		58	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	64.4		ug/L		101	38 - 150
4-Bromophenyl phenyl ether	ND	*	32.0	31.3		ug/L		98	63 - 126
4-Chloro-3-methylphenol	ND		32.0	30.1		ug/L		94	64 - 127
4-Chloroaniline	ND		32.0	19.8		ug/L		62	16 - 124
4-Chlorophenyl phenyl ether	ND	F2 *	32.0	28.9		ug/L		90	61 - 120
4-Methylphenol	ND		32.0	32.8		ug/L		103	36 - 120
4-Nitroaniline	ND	*	32.0	30.0		ug/L		94	32 - 150
4-Nitrophenol	ND		64.0	47.4		ug/L		74	23 - 132
Acenaphthene	ND	F1 *	32.0	36.3		ug/L		113	48 - 120
Acenaphthylene	ND	F1 *	32.0	36.1		ug/L		113	63 - 120
Acetophenone	ND	*	32.0	34.4		ug/L		107	53 - 120
Aniline	0.99	J	32.0	20.4		ug/L		61	32 - 120
Anthracene	ND	*	32.0	36.9		ug/L		115	65 - 122
Atrazine	ND	*	64.0	74.9		ug/L		117	50 - 150
Benzaldehyde	ND		64.0	55.0		ug/L		86	10 - 150
Benzo(a)anthracene	ND	*	32.0	32.9		ug/L		103	43 - 124
Benzo(a)pyrene	ND	*	32.0	32.9		ug/L		103	23 - 125
Benzo(b)fluoranthene	ND	*	32.0	33.1		ug/L		103	27 - 127
Benzo(g,h,i)perylene	ND		32.0	32.5		ug/L		102	16 - 147
Benzo(k)fluoranthene	ND	*	32.0	31.9		ug/L		100	20 - 124
Biphenyl	ND	*	32.0	32.1		ug/L		100	57 - 120

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

Lab Sample ID: 480-140719-1 MS
Matrix: Ground Water
Analysis Batch: 431619

Client Sample ID: BCC Area C MW-C04 MS_0818
Prep Type: Total/NA
Prep Batch: 431041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	ND	F1 *	32.0	36.8		ug/L		115	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	30.5		ug/L		95	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	31.7		ug/L		99	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	29.5		ug/L		92	16 - 150
Butyl benzyl phthalate	ND		32.0	32.6		ug/L		102	51 - 140
Caprolactam	ND		64.0	22.9		ug/L		36	10 - 120
Carbazole	ND	*	32.0	40.6		ug/L		127	16 - 148
Chrysene	ND		32.0	29.9		ug/L		93	44 - 122
Dibenz(a,h)anthracene	ND	*	32.0	37.5		ug/L		117	16 - 139
Dibenzofuran	ND		32.0	32.5		ug/L		102	60 - 120
Diethyl phthalate	ND	*	32.0	37.8		ug/L		118	53 - 133
Dimethyl phthalate	ND	*	32.0	29.9		ug/L		94	59 - 123
Di-n-butyl phthalate	0.39	J B *	32.0	37.0		ug/L		114	65 - 129
Di-n-octyl phthalate	ND		32.0	28.5		ug/L		89	16 - 150
Fluoranthene	ND	*	32.0	37.5		ug/L		117	63 - 129
Fluorene	ND	*	32.0	34.1		ug/L		106	62 - 120
Hexachlorobenzene	ND	*	32.0	35.4		ug/L		111	57 - 121
Hexachlorobutadiene	ND		32.0	24.4		ug/L		76	37 - 120
Hexachlorocyclopentadiene	ND		32.0	14.6		ug/L		46	21 - 120
Hexachloroethane	ND		32.0	25.6		ug/L		80	16 - 130
Indeno(1,2,3-cd)pyrene	ND	*	32.0	37.7		ug/L		118	16 - 140
Isophorone	ND	*	32.0	34.6		ug/L		108	48 - 133
Naphthalene	ND		32.0	29.4		ug/L		92	45 - 120
Nitrobenzene	0.41	J	32.0	32.4		ug/L		100	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	34.4		ug/L		107	49 - 120
N-Nitrosodiphenylamine	0.61	J *	32.0	35.0		ug/L		108	39 - 138
Pentachlorophenol	ND		64.0	54.0		ug/L		84	23 - 149
Phenanthrene	ND	*	32.0	36.1		ug/L		113	65 - 122
Phenol	ND		32.0	18.4		ug/L		57	16 - 120
Pyrene	ND	*	32.0	33.7		ug/L		105	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*90*		*41 - 120*
2-Fluorobiphenyl	*87*		*48 - 120*
2-Fluorophenol	*63*		*35 - 120*
Nitrobenzene-d5	*79*		*46 - 120*
Phenol-d5	*51*		*22 - 120*
p-Terphenyl-d14	*63*		*59 - 136*

Lab Sample ID: 480-140719-1 MSD
Matrix: Ground Water
Analysis Batch: 431619

Client Sample ID: BCC Area C MW-C04 MSD_0818
Prep Type: Total/NA
Prep Batch: 431041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	34.2		ug/L		107	65 - 126	9	18
2,4,6-Trichlorophenol	ND	F1 *	32.0	40.3	F1	ug/L		126	64 - 120	9	19
2,4-Dichlorophenol	5.0		32.0	43.8		ug/L		121	48 - 132	14	19
2,4-Dimethylphenol	ND		32.0	35.5		ug/L		111	39 - 130	12	42

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

Lab Sample ID: 480-140719-1 MSD — **Client Sample ID: BCC Area C MW-C04 MSD_0818**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 431619 — **Prep Batch: 431041**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrophenol	ND		64.0	62.6		ug/L		98	21 - 150	2	22
2,4-Dinitrotoluene	ND	*	32.0	32.2		ug/L		101	54 - 138	10	20
2,6-Dinitrotoluene	ND	*	32.0	33.2		ug/L		104	17 - 150	1	15
2-Chloronaphthalene	ND		32.0	34.1		ug/L		107	52 - 124	8	21
2-Chlorophenol	ND		32.0	35.0		ug/L		109	48 - 120	8	25
2-Methylnaphthalene	ND		32.0	34.1		ug/L		107	34 - 140	11	21
2-Methylphenol	ND		32.0	32.0		ug/L		100	46 - 120	7	27
2-Nitroaniline	ND	*	32.0	38.7		ug/L		121	44 - 136	9	15
2-Nitrophenol	ND		32.0	37.4		ug/L		117	38 - 141	12	18
3,3'-Dichlorobenzidine	ND		64.0	23.0		ug/L		36	10 - 150	13	25
3-Nitroaniline	ND		32.0	21.5		ug/L		67	32 - 150	15	19
4,6-Dinitro-2-methylphenol	ND		64.0	66.8		ug/L		104	38 - 150	4	15
4-Bromophenyl phenyl ether	ND	*	32.0	33.9		ug/L		106	63 - 126	8	15
4-Chloro-3-methylphenol	ND		32.0	33.8		ug/L		106	64 - 127	12	27
4-Chloroaniline	ND		32.0	23.1		ug/L		72	16 - 124	16	22
4-Chlorophenyl phenyl ether	ND	F2 *	32.0	35.6	F2	ug/L		111	61 - 120	21	16
4-Methylphenol	ND		32.0	35.5		ug/L		111	36 - 120	8	24
4-Nitroaniline	ND	*	32.0	33.3		ug/L		104	32 - 150	10	24
4-Nitrophenol	ND		64.0	51.1		ug/L		80	23 - 132	7	48
Acenaphthene	ND	F1 *	32.0	39.1	F1	ug/L		122	48 - 120	7	24
Acenaphthylene	ND	F1 *	32.0	39.8	F1	ug/L		124	63 - 120	10	18
Acetophenone	ND	*	32.0	37.2		ug/L		116	53 - 120	8	20
Aniline	0.99	J	32.0	25.0		ug/L		75	32 - 120	20	30
Anthracene	ND	*	32.0	38.7		ug/L		121	65 - 122	5	15
Atrazine	ND	*	64.0	84.3		ug/L		132	50 - 150	12	20
Benzaldehyde	ND		64.0	61.1		ug/L		95	10 - 150	11	20
Benzo(a)anthracene	ND	*	32.0	36.1		ug/L		113	43 - 124	9	15
Benzo(a)pyrene	ND	*	32.0	37.0		ug/L		116	23 - 125	12	15
Benzo(b)fluoranthene	ND	*	32.0	37.6		ug/L		118	27 - 127	13	15
Benzo(g,h,i)perylene	ND		32.0	37.8		ug/L		118	16 - 147	15	15
Benzo(k)fluoranthene	ND	*	32.0	38.2		ug/L		119	20 - 124	18	22
Biphenyl	ND	*	32.0	35.5		ug/L		111	57 - 120	10	20
bis (2-chloroisopropyl) ether	ND	F1 *	32.0	39.6	F1	ug/L		124	28 - 121	7	24
Bis(2-chloroethoxy)methane	ND		32.0	33.8		ug/L		106	44 - 128	10	17
Bis(2-chloroethyl)ether	ND		32.0	32.9		ug/L		103	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND		32.0	33.8		ug/L		106	16 - 150	14	15
Butyl benzyl phthalate	ND		32.0	36.6		ug/L		114	51 - 140	11	16
Caprolactam	ND		64.0	25.2		ug/L		39	10 - 120	9	20
Carbazole	ND	*	32.0	44.6		ug/L		139	16 - 148	9	20
Chrysene	ND		32.0	33.3		ug/L		104	44 - 122	11	15
Dibenz(a,h)anthracene	ND	*	32.0	43.4		ug/L		136	16 - 139	15	15
Dibenzofuran	ND		32.0	35.9		ug/L		112	60 - 120	10	15
Diethyl phthalate	ND	*	32.0	36.1		ug/L		113	53 - 133	5	15
Dimethyl phthalate	ND	*	32.0	33.4		ug/L		104	59 - 123	11	15
Di-n-butyl phthalate	0.39	J B *	32.0	39.2		ug/L		121	65 - 129	6	15
Di-n-octyl phthalate	ND		32.0	32.8		ug/L		103	16 - 150	14	16
Fluoranthene	ND	*	32.0	40.6		ug/L		127	63 - 129	8	15
Fluorene	ND	*	32.0	36.5		ug/L		114	62 - 120	7	15

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

Lab Sample ID: 480-140719-1 MSD
Matrix: Ground Water
Analysis Batch: 431619

Client Sample ID: BCC Area C MW-C04 MSD_0818
Prep Type: Total/NA
Prep Batch: 431041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	ND	*	32.0	36.1		ug/L		113	57 - 121	2	15
Hexachlorobutadiene	ND		32.0	26.9		ug/L		84	37 - 120	9	44
Hexachlorocyclopentadiene	ND		32.0	15.9		ug/L		50	21 - 120	8	49
Hexachloroethane	ND		32.0	28.8		ug/L		90	16 - 130	11	46
Indeno(1,2,3-cd)pyrene	ND	*	32.0	43.6		ug/L		136	16 - 140	14	15
Isophorone	ND	*	32.0	38.6		ug/L		121	48 - 133	11	17
Naphthalene	ND		32.0	32.4		ug/L		101	45 - 120	10	29
Nitrobenzene	0.41	J	32.0	36.1		ug/L		112	45 - 123	11	24
N-Nitrosodi-n-propylamine	ND		32.0	37.6		ug/L		118	49 - 120	9	31
N-Nitrosodiphenylamine	0.61	J *	32.0	37.0		ug/L		114	39 - 138	5	15
Pentachlorophenol	ND		64.0	56.7		ug/L		89	23 - 149	5	37
Phenanthrene	ND	*	32.0	33.9		ug/L		106	65 - 122	6	15
Phenol	ND		32.0	20.6		ug/L		64	16 - 120	12	34
Pyrene	ND	*	32.0	36.5		ug/L		114	58 - 128	8	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*41 - 120*
2-Fluorobiphenyl	*99*		*48 - 120*
2-Fluorophenol	*71*		*35 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
Phenol-d5	*55*		*22 - 120*
p-Terphenyl-d14	*68*		*59 - 136*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-431454/1-A
Matrix: Water
Analysis Batch: 431924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/27/18 09:26	08/28/18 14:14	1
Antimony	ND		0.020	0.0068	mg/L		08/27/18 09:26	08/28/18 14:14	1
Arsenic	ND		0.015	0.0056	mg/L		08/27/18 09:26	08/28/18 14:14	1
Barium	ND		0.0020	0.00070	mg/L		08/27/18 09:26	08/28/18 14:14	1
Beryllium	ND		0.0020	0.00030	mg/L		08/27/18 09:26	08/28/18 14:14	1
Cadmium	ND		0.0020	0.00050	mg/L		08/27/18 09:26	08/28/18 14:14	1
Calcium	0.106	J	0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:14	1
Chromium	ND		0.0040	0.0010	mg/L		08/27/18 09:26	08/28/18 14:14	1
Cobalt	ND		0.0040	0.00063	mg/L		08/27/18 09:26	08/28/18 14:14	1
Copper	ND		0.010	0.0016	mg/L		08/27/18 09:26	08/28/18 14:14	1
Iron	ND		0.050	0.019	mg/L		08/27/18 09:26	08/28/18 14:14	1
Lead	ND		0.010	0.0030	mg/L		08/27/18 09:26	08/28/18 14:14	1
Magnesium	ND		0.20	0.043	mg/L		08/27/18 09:26	08/28/18 14:14	1
Manganese	0.000790	J	0.0030	0.00040	mg/L		08/27/18 09:26	08/28/18 14:14	1
Nickel	ND		0.010	0.0013	mg/L		08/27/18 09:26	08/28/18 14:14	1
Potassium	ND		0.50	0.10	mg/L		08/27/18 09:26	08/28/18 14:14	1
Selenium	ND		0.025	0.0087	mg/L		08/27/18 09:26	08/28/18 14:14	1
Silver	ND		0.0060	0.0017	mg/L		08/27/18 09:26	08/28/18 14:14	1

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

Lab Sample ID: MB 480-431454/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 431924 — **Prep Batch: 431454**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		08/27/18 09:26	08/28/18 14:14	1
Thallium	ND		0.020	0.010	mg/L		08/27/18 09:26	08/28/18 14:14	1
Vanadium	ND		0.0050	0.0015	mg/L		08/27/18 09:26	08/28/18 14:14	1
Zinc	ND		0.010	0.0015	mg/L		08/27/18 09:26	08/28/18 14:14	1

Lab Sample ID: LCS 480-431454/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 431924 — **Prep Batch: 431454**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.53		mg/L		95	80 - 120
Antimony	0.200	0.197		mg/L		99	80 - 120
Arsenic	0.200	0.199		mg/L		99	80 - 120
Barium	0.200	0.189		mg/L		94	80 - 120
Beryllium	0.200	0.199		mg/L		99	80 - 120
Cadmium	0.200	0.191		mg/L		96	80 - 120
Calcium	10.0	9.72		mg/L		97	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.200	0.190		mg/L		95	80 - 120
Copper	0.200	0.188		mg/L		94	80 - 120
Iron	10.0	9.66		mg/L		97	80 - 120
Lead	0.200	0.199		mg/L		99	80 - 120
Magnesium	10.0	9.64		mg/L		96	80 - 120
Manganese	0.200	0.195		mg/L		98	80 - 120
Nickel	0.200	0.204		mg/L		102	80 - 120
Potassium	10.0	9.05		mg/L		90	80 - 120
Selenium	0.200	0.192		mg/L		96	80 - 120
Silver	0.0500	0.0499		mg/L		100	80 - 120
Sodium	10.0	9.29		mg/L		93	80 - 120
Thallium	0.200	0.194		mg/L		97	80 - 120
Vanadium	0.200	0.200		mg/L		100	80 - 120
Zinc	0.200	0.201		mg/L		100	80 - 120

Lab Sample ID: 480-140719-1 MS — **Client Sample ID: BCC Area C MW-C04 MS_0818**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 431924 — **Prep Batch: 431454**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.095	J	10.0	9.63		mg/L		95	75 - 125
Antimony	ND		0.200	0.204		mg/L		102	75 - 125
Arsenic	ND		0.200	0.207		mg/L		103	75 - 125
Barium	0.26		0.200	0.437		mg/L		90	75 - 125
Beryllium	ND		0.200	0.203		mg/L		102	75 - 125
Cadmium	ND		0.200	0.199		mg/L		100	75 - 125
Calcium	221	B	10.0	221.9	4	mg/L		7	75 - 125
Chromium	ND		0.200	0.196		mg/L		98	75 - 125
Cobalt	ND		0.200	0.193		mg/L		97	75 - 125
Copper	0.0023	J	0.200	0.199		mg/L		98	75 - 125
Iron	7.0		10.0	16.09		mg/L		91	75 - 125

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

Lab Sample ID: 480-140719-1 MS — **Client Sample ID: BCC Area C MW-C04 MS_0818**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 431924 — **Prep Batch: 431454**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		0.200	0.209		mg/L		105	75 - 125
Magnesium	26.5		10.0	35.51		mg/L		90	75 - 125
Manganese	1.1	B	0.200	1.27	4	mg/L		76	75 - 125
Nickel	ND		0.200	0.207		mg/L		103	75 - 125
Potassium	10.4		10.0	19.84		mg/L		95	75 - 125
Selenium	ND		0.200	0.204		mg/L		102	75 - 125
Silver	ND		0.0500	0.0497		mg/L		99	75 - 125
Sodium	39.1		10.0	47.67		mg/L		85	75 - 125
Thallium	ND		0.200	0.203		mg/L		102	75 - 125
Vanadium	ND		0.200	0.203		mg/L		101	75 - 125
Zinc	0.0060	J	0.200	0.199		mg/L		97	75 - 125

Lab Sample ID: 480-140719-1 MSD — **Client Sample ID: BCC Area C MW-C04 MSD_0818**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 431924 — **Prep Batch: 431454**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.095	J	10.0	9.85		mg/L		98	75 - 125	2	20
Antimony	ND		0.200	0.200		mg/L		100	75 - 125	2	20
Arsenic	ND		0.200	0.204		mg/L		102	75 - 125	2	20
Barium	0.26		0.200	0.449		mg/L		95	75 - 125	3	20
Beryllium	ND		0.200	0.200		mg/L		100	75 - 125	1	20
Cadmium	ND		0.200	0.195		mg/L		98	75 - 125	2	20
Calcium	221	B	10.0	228.3	4	mg/L		72	75 - 125	3	20
Chromium	ND		0.200	0.193		mg/L		96	75 - 125	2	20
Cobalt	ND		0.200	0.190		mg/L		95	75 - 125	2	20
Copper	0.0023	J	0.200	0.195		mg/L		97	75 - 125	2	20
Iron	7.0		10.0	16.00		mg/L		90	75 - 125	1	20
Lead	ND		0.200	0.207		mg/L		103	75 - 125	1	20
Magnesium	26.5		10.0	36.08		mg/L		95	75 - 125	2	20
Manganese	1.1	B	0.200	1.30	4	mg/L		88	75 - 125	2	20
Nickel	ND		0.200	0.203		mg/L		101	75 - 125	2	20
Potassium	10.4		10.0	20.51		mg/L		101	75 - 125	3	20
Selenium	ND		0.200	0.200		mg/L		100	75 - 125	2	20
Silver	ND		0.0500	0.0507		mg/L		101	75 - 125	2	20
Sodium	39.1		10.0	49.10		mg/L		100	75 - 125	3	20
Thallium	ND		0.200	0.203		mg/L		101	75 - 125	0	20
Vanadium	ND		0.200	0.199		mg/L		100	75 - 125	2	20
Zinc	0.0060	J	0.200	0.195		mg/L		94	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-433106/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 433279 — **Prep Batch: 433106**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/06/18 13:44	09/06/18 16:37	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-433106/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 433279 — **Prep Batch: 433106**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00708		mg/L		106	80 - 120		

Lab Sample ID: 480-140719-1 MS — **Client Sample ID: BCC Area C MW-C04 MS_0818**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 433279 — **Prep Batch: 433106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.00021		0.00667	0.00698		mg/L		102	80 - 120		

Lab Sample ID: 480-140719-1 MSD — **Client Sample ID: BCC Area C MW-C04 MSD_0818**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 433279 — **Prep Batch: 433106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00021		0.00667	0.00683		mg/L		99	80 - 120	2	20

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

GC/MS VOA

Analysis Batch: 431217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	8260C	
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	8260C	
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	8260C	
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	8260C	
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	8260C	
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	8260C	
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	8260C	
480-140719-8	TRIP BLANK	Total/NA	Water	8260C	
MB 480-431217/7	Method Blank	Total/NA	Water	8260C	
LCS 480-431217/5	Lab Control Sample	Total/NA	Water	8260C	
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	8260C	
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 431041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	3510C	
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	3510C	
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	3510C	
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	3510C	
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	3510C	
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	3510C	
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	3510C	
MB 480-431041/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-431041/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	3510C	
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	3510C	

Analysis Batch: 431619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	8270D	431041
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	8270D	431041
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	8270D	431041
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	8270D	431041
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	8270D	431041
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	8270D	431041
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	8270D	431041
MB 480-431041/1-A	Method Blank	Total/NA	Water	8270D	431041
LCS 480-431041/2-A	Lab Control Sample	Total/NA	Water	8270D	431041
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	8270D	431041
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	8270D	431041

Metals

Prep Batch: 431454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	3005A	
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	3005A	
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	3005A	

Metals (Continued)

Prep Batch: 431454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	3005A	
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	3005A	
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	3005A	
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	3005A	
480-140719-9	BCC Area C MW-COIF_0818	Total/NA	Water	3005A	
MB 480-431454/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-431454/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	3005A	
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	3005A	

Analysis Batch: 431924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	6010C	431454
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	6010C	431454
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	6010C	431454
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	6010C	431454
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	6010C	431454
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	6010C	431454
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	6010C	431454
480-140719-9	BCC Area C MW-COIF_0818	Total/NA	Water	6010C	431454
MB 480-431454/1-A	Method Blank	Total/NA	Water	6010C	431454
LCS 480-431454/2-A	Lab Control Sample	Total/NA	Water	6010C	431454
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	6010C	431454
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	6010C	431454

Analysis Batch: 432122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	6010C	431454
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	6010C	431454
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	6010C	431454
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	6010C	431454
480-140719-9	BCC Area C MW-COIF_0818	Total/NA	Water	6010C	431454

Prep Batch: 433106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	7470A	
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	7470A	
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	7470A	
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	7470A	
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	7470A	
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	7470A	
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	7470A	
480-140719-9	BCC Area C MW-COIF_0818	Total/NA	Water	7470A	
MB 480-433106/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-433106/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	7470A	
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	7470A	

Analysis Batch: 433279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-1	BCC Area C MW-C04_0818	Total/NA	Ground Water	7470A	433106

Metals (Continued)

Analysis Batch: 433279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-140719-2	BCC Area C MW-C01_0818	Total/NA	Ground Water	7470A	433106
480-140719-3	BCC Area C MW-C04 D_0818	Total/NA	Ground Water	7470A	433106
480-140719-4	BCC Area C PS-05A_0818	Total/NA	Ground Water	7470A	433106
480-140719-5	BCC Area C PS-06_0818	Total/NA	Ground Water	7470A	433106
480-140719-6	BCC Area C RFI-20_0818	Total/NA	Ground Water	7470A	433106
480-140719-7	BCC Area C RFI-31_0818	Total/NA	Ground Water	7470A	433106
480-140719-9	BCC Area C MW-COIF_0818	Total/NA	Water	7470A	433106
MB 480-433106/1-A	Method Blank	Total/NA	Water	7470A	433106
LCS 480-433106/2-A	Lab Control Sample	Total/NA	Water	7470A	433106
480-140719-1 MS	BCC Area C MW-C04 MS_0818	Total/NA	Ground Water	7470A	433106
480-140719-1 MSD	BCC Area C MW-C04 MSD_0818	Total/NA	Ground Water	7470A	433106

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C MW-C04_0818 — Lab Sample ID: 480-140719-1

Date Collected: 08/21/18 12:10 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	431217	08/23/18 23:55	CDC	TAL BUF
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		1	431619	08/27/18 21:41	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 14:22	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 16:58	BMB	TAL BUF

Client Sample ID: BCC Area C MW-C01_0818 — Lab Sample ID: 480-140719-2

Date Collected: 08/21/18 14:40 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	431217	08/24/18 00:18	CDC	TAL BUF
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		10	431619	08/27/18 22:39	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 14:50	S1P	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		5	432122	08/29/18 12:41	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:06	BMB	TAL BUF

Client Sample ID: BCC Area C MW-C04 D_0818 — Lab Sample ID: 480-140719-3

Date Collected: 08/21/18 12:20 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	431217	08/24/18 00:42	CDC	TAL BUF
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		1	431619	08/27/18 23:09	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 14:54	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:08	BMB	TAL BUF

Client Sample ID: BCC Area C PS-05A_0818 — Lab Sample ID: 480-140719-4

Date Collected: 08/22/18 09:45 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	431217	08/24/18 01:05	CDC	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C PS-05A_0818 — Lab Sample ID: 480-140719-4

Date Collected: 08/22/18 09:45 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		1	431619	08/27/18 23:38	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 14:58	S1P	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		2	432122	08/29/18 12:45	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:10	BMB	TAL BUF

Client Sample ID: BCC Area C PS-06_0818 — Lab Sample ID: 480-140719-5

Date Collected: 08/21/18 10:50 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	431217	08/24/18 01:28	CDC	TAL BUF
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		5	431619	08/28/18 00:08	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 15:01	S1P	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		5	432122	08/29/18 12:49	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:11	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-20_0818 — Lab Sample ID: 480-140719-6

Date Collected: 08/22/18 08:50 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	431217	08/24/18 01:51	CDC	TAL BUF
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		1	431619	08/28/18 00:38	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 15:05	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:13	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-31_0818 — Lab Sample ID: 480-140719-7

Date Collected: 08/22/18 08:00 — **Matrix: Ground Water**
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	431217	08/24/18 02:14	CDC	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Client Sample ID: BCC Area C RFI-31_0818

Lab Sample ID: 480-140719-7
Date Collected: 08/22/18 08:00
Matrix: Ground Water
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			431041	08/23/18 07:40	JMP	TAL BUF
Total/NA	Analysis	8270D		1	431619	08/28/18 01:07	PJQ	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 15:09	S1P	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		10	432122	08/29/18 13:03	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:15	BMB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-140719-8
Date Collected: 08/22/18 00:00
Matrix: Water
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	431217	08/24/18 02:38	CDC	TAL BUF

Client Sample ID: BCC Area C MW-COIF_0818

Lab Sample ID: 480-140719-9
Date Collected: 08/21/18 14:50
Matrix: Water
Date Received: 08/22/18 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		1	431924	08/28/18 15:12	S1P	TAL BUF
Total/NA	Prep	3005A			431454	08/27/18 09:26	VEG	TAL BUF
Total/NA	Analysis	6010C		10	432122	08/29/18 13:07	S1P	TAL BUF
Total/NA	Prep	7470A			433106	09/06/18 13:44	VEG	TAL BUF
Total/NA	Analysis	7470A		1	433279	09/06/18 17:20	BMB	TAL BUF

Laboratory References:
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-140719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-140719-1	BCC Area C MW-C04_0818	Ground Water	08/21/18 12:10	08/22/18 14:40
480-140719-2	BCC Area C MW-C01_0818	Ground Water	08/21/18 14:40	08/22/18 14:40
480-140719-3	BCC Area C MW-C04 D_0818	Ground Water	08/21/18 12:20	08/22/18 14:40
480-140719-4	BCC Area C PS-05A_0818	Ground Water	08/22/18 09:45	08/22/18 14:40
480-140719-5	BCC Area C PS-06_0818	Ground Water	08/21/18 10:50	08/22/18 14:40
480-140719-6	BCC Area C RFI-20_0818	Ground Water	08/22/18 08:50	08/22/18 14:40
480-140719-7	BCC Area C RFI-31_0818	Ground Water	08/22/18 08:00	08/22/18 14:40
480-140719-8	TRIP BLANK	Water	08/22/18 00:00	08/22/18 14:40
480-140719-9	BCC Area C MW-COIF_0818	Water	08/21/18 14:50	08/22/18 14:40

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

480-140719 COC

Client Contact	Project Manager: Schove, John	Site Contact: Tom Wagner	Date: 8-22-18	COC No: 28888.0818
Ontario Specialty Contracting Inc.	Tel/Fax: (716) 912-9926	Lab Contact: Schove, John	Carrier: OSC	1 of 1 COCs
333 Ganson Street	Analysis Turnaround Time			Job No. 0913-OMM
Buffalo, NY, 14203	Calendar (C) or Work Days (W) W			
716-856-3333 Phone	TAT			
716-842-1630 FAX	[X] 2 weeks			SDG No.
Project Name: Buffalo Color Area C Wells	[ ] 1 week			
Site: HoneyWell Buffalo Color - NYC915231 EIM SITE ID - 37745	[ ] 2 days			
PO# [redacted] 60497	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B - TLC 4.2 list (TLC VOC)	6010B, 7470A (TAL Metals)	8270C - (MOD) TLC SVOA - 4.2 list + naphthalene	Sample Specific Notes:
BCC_Area C_MW-C01_0818	8/21-18	1440	G	W	6	N	3	1	2	
BCC_Area C_RFI-31_0818	8/22-18	0800	G	W	6	N	3	1	2	
BCC_Area C_PS-04_0818			G	W	6	N	3	1	2	DRY WELL - NO SAMPLE
BCC_Area C_MW-C04_0818	8/21-18	1210	G	W	6	N	3	1	2	
BCC_Area C_RFI-20_0818	8/22-18	0850	G	W	6	N	3	1	2	
BCC_Area C_PS-05A_0818	8/22-18	0945	G	W	6	N	3	1	2	
BCC_Area C_PS-06_0818	8/22-18	1050	G	W	6	N	3	1	2	
BCC_Area C_MW-C04 D_0818	8/21-18	1220	G	W	6	N	3	1	2	
BCC_Area C_MW-C04 MS_0818	8/21-18	1235	G	W	6	N	3	1	2	
BCC_Area C_MW-C04 MSD_0818	8/21-18	1245	G	W	6	N	3	1	2	
Trip Blank	N/A	N/A	N/A	W	2		2			
BCC_AREA C_MW-C01F_0818	8/21-18	1450	G	W	1				1	
Container Volume (ml)							40	250	1000	
Preservation: 1= Ice 2= HCl (Hydrochloric) 3= H2SO4 (Sulfuric) 4=HNO3 (Nitric) 5=NaOH (Sodium Hydroxide) 6=Other							2-V	4-P	1-A	

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* [ ] *Poison B* [X] *Unknown*

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

Special Instructions/QC Requirements & Comments:

#1 4.1°C

Container Code: A=Amber G=Glass P=Poly/Plastic S=Summa T=Tedlar V=Vial

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Wagner	OSC	8-22-18 1440	[signature]	TAB	8/22/18 1440
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-140719-1

Login Number: 140719
List Number: 1
Creator: Stopa, Erik S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OSC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-145165-1
Client Project/Site: Buffalo Color Area C Wells
Sampling Event: Buffalo Color Area C Wells

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Kirsten Colligan

Authorized for release by:
11/29/2018 1:17:47 PM
Mary Schwartzmyer, Project Manager I
mary.schwartzmyer@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-145165-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-145165-1

Comments
No additional comments.

Receipt
The samples were received on 11/13/2018 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.7º C and 4.1º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-446526 recovered outside acceptance criteria, low biased, for 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCC Area C MW-C04_1118 (480-145165-2) and BCC Area C PS-05A_1118 (480-145165-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-C01_1118 (480-145165-1), BCC Area C PS-06_1118 (480-145165-5) and BCC Area C RFI-31_1118 (480-145165-7). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: BCC Area C PS-06_1118 (480-145165-5) and BCC Area C RFI-31_1118 (480-145165-7). These results have been reported and qualified.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: BCC Area C MW-C01_1118 (480-145165-1), BCC Area C PS-05A_1118 (480-145165-4), BCC Area C PS-06_1118 (480-145165-5) and BCC Area C RFI-31_1118 (480-145165-7). Elevated reporting limits (RLs) are provided.

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

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

Organic Prep
Method(s) 3510C: The following sample: BCC Area C PS-06_1118 (480-145165-5) was decanted prior to preparation.

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

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C01_1118 — Lab Sample ID: 480-145165-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.1		2.0	0.88	ug/L	2		8260C	Total/NA
Aluminum	1.3		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.32		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00075	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	289		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0076		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0012	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.012		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	3.0	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.019		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	82.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.51	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0066	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	29.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2480		5.0	1.6	mg/L	5		6010C	Total/NA
Vanadium	0.0027	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.095		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00028		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C MW-C04_1118 — Lab Sample ID: 480-145165-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	28		10	7.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	49		10	8.4	ug/L	10		8260C	Total/NA
Chlorobenzene	350		10	7.5	ug/L	10		8260C	Total/NA
Methylene Chloride	8.8	J	10	4.4	ug/L	10		8260C	Total/NA
2-Chlorophenol	0.74	J	5.0	0.53	ug/L	1		8270D	Total/NA
Aniline	1.0	J	10	0.61	ug/L	1		8270D	Total/NA
N-Nitrosodiphenylamine	0.86	J	5.0	0.51	ug/L	1		8270D	Total/NA
Aluminum	0.096	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.63		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	245		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0051	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	7.4	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0040	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	31.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	10.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	35.9		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0094	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-04_1118 — Lab Sample ID: 480-145165-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.066	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.050		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0090		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	254		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0011	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0039	J	0.0040	0.00063	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-04_1118 (Continued) — Lab Sample ID: 480-145165-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.047		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.14	B	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	33.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.013	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.067		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	10.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	21.9		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.47		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-05A_1118 — Lab Sample ID: 480-145165-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	220		5.0	3.8	ug/L	5		8260C	Total/NA
Methylene Chloride	4.4	J	5.0	2.2	ug/L	5		8260C	Total/NA
2-Chlorophenol	3.2	J	25	2.7	ug/L	5		8270D	Total/NA
Aluminum	0.063	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.18		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.020		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	268		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0013	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	31.0	B	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	25.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.38	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0031	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	15.7		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	109		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.028		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-06_1118 — Lab Sample ID: 480-145165-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.4	J	5.0	2.2	ug/L	5		8260C	Total/NA
Aluminum	0.13	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.097		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.012		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	226		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	41.8	B	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	9.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.19	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0030	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	62.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	64.9		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0097	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-20_1118 — Lab Sample ID: 480-145165-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	24		1.0	0.75	ug/L	1		8260C	Total/NA
Methylene Chloride	0.48	J	1.0	0.44	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20_1118 (Continued) — Lab Sample ID: 480-145165-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.077	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.067		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	236		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	5.9	B	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	22.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.36	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0035	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	8.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	28.3		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0092	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-31_1118 — Lab Sample ID: 480-145165-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	170		10	4.1	ug/L	10		8260C	Total/NA
1,2-Dichlorobenzene	8.1	J	10	7.9	ug/L	10		8260C	Total/NA
1,3-Dichlorobenzene	28		10	7.8	ug/L	10		8260C	Total/NA
Chlorobenzene	18		10	7.5	ug/L	10		8260C	Total/NA
Methylene Chloride	8.7	J	10	4.4	ug/L	10		8260C	Total/NA
Aluminum	0.13	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.022		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00081	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	355		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0017	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0028	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.71		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	114		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.4		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0054	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	15.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1960		10.0	3.2	mg/L	10		6010C	Total/NA
Zinc	0.0099	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-145165-8

No Detections.

Client Sample ID: BCC Area C RFI-20 D_1118 — Lab Sample ID: 480-145165-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	24		1.0	0.75	ug/L	1		8260C	Total/NA
Aluminum	0.12	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.068		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	243		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	6.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	22.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.35		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0036	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	9.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	27.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0085	J	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C01_1118

Lab Sample ID: 480-145165-1

Date Collected: 11/13/18 15:15
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			11/20/18 01:12	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			11/20/18 01:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			11/20/18 01:12	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			11/20/18 01:12	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			11/20/18 01:12	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			11/20/18 01:12	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			11/20/18 01:12	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			11/20/18 01:12	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			11/20/18 01:12	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			11/20/18 01:12	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			11/20/18 01:12	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			11/20/18 01:12	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			11/20/18 01:12	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			11/20/18 01:12	2
2-Butanone (MEK)	ND		20	2.6	ug/L			11/20/18 01:12	2
2-Hexanone	ND		10	2.5	ug/L			11/20/18 01:12	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			11/20/18 01:12	2
Acetone	ND		20	6.0	ug/L			11/20/18 01:12	2
Benzene	ND		2.0	0.82	ug/L			11/20/18 01:12	2
Bromodichloromethane	ND		2.0	0.78	ug/L			11/20/18 01:12	2
Bromoform	ND		2.0	0.52	ug/L			11/20/18 01:12	2
Bromomethane	ND		2.0	1.4	ug/L			11/20/18 01:12	2
Carbon disulfide	ND		2.0	0.38	ug/L			11/20/18 01:12	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			11/20/18 01:12	2
Chlorobenzene	ND		2.0	1.5	ug/L			11/20/18 01:12	2
Chloroethane	ND		2.0	0.64	ug/L			11/20/18 01:12	2
Chloroform	ND		2.0	0.68	ug/L			11/20/18 01:12	2
Chloromethane	ND		2.0	0.70	ug/L			11/20/18 01:12	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			11/20/18 01:12	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			11/20/18 01:12	2
Cyclohexane	ND		2.0	0.36	ug/L			11/20/18 01:12	2
Dibromochloromethane	ND		2.0	0.64	ug/L			11/20/18 01:12	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			11/20/18 01:12	2
Ethylbenzene	ND		2.0	1.5	ug/L			11/20/18 01:12	2
Isopropylbenzene	ND		2.0	1.6	ug/L			11/20/18 01:12	2
Methyl acetate	ND		5.0	2.6	ug/L			11/20/18 01:12	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			11/20/18 01:12	2
Methylcyclohexane	ND		2.0	0.32	ug/L			11/20/18 01:12	2
Methylene Chloride	**2.1**		2.0	0.88	ug/L			11/20/18 01:12	2
Styrene	ND		2.0	1.5	ug/L			11/20/18 01:12	2
Tetrachloroethene	ND		2.0	0.72	ug/L			11/20/18 01:12	2
Toluene	ND		2.0	1.0	ug/L			11/20/18 01:12	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			11/20/18 01:12	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			11/20/18 01:12	2
Trichloroethene	ND		2.0	0.92	ug/L			11/20/18 01:12	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			11/20/18 01:12	2
Vinyl chloride	ND		2.0	1.8	ug/L			11/20/18 01:12	2
Xylenes, Total	ND		4.0	1.3	ug/L			11/20/18 01:12	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C01_1118

Date Collected: 11/13/18 15:15
Date Received: 11/13/18 15:40

Lab Sample ID: 480-145165-1

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*11/20/18 01:12*	*2*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*11/20/18 01:12*	*2*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/20/18 01:12*	*2*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*11/20/18 01:12*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		11/15/18 14:04	11/27/18 19:34	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		11/15/18 14:04	11/27/18 19:34	5
2,4-Dinitrophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 19:34	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 19:34	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
2-Chloronaphthalene	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
2-Chlorophenol	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 19:34	5
2-Methylnaphthalene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
2-Methylphenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
2-Nitroaniline	ND		50	2.1	ug/L		11/15/18 14:04	11/27/18 19:34	5
2-Nitrophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
3-Nitroaniline	ND		50	2.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Chloroaniline	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Methylphenol	ND		50	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Nitroaniline	ND		50	1.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
4-Nitrophenol	ND		50	7.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
Acenaphthene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 19:34	5
Acenaphthylene	ND		25	1.9	ug/L		11/15/18 14:04	11/27/18 19:34	5
Acetophenone	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 19:34	5
Aniline	ND		50	3.1	ug/L		11/15/18 14:04	11/27/18 19:34	5
Anthracene	ND		25	1.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
Atrazine	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
Benzaldehyde	ND		25	1.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 19:34	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/15/18 14:04	11/27/18 19:34	5
Biphenyl	ND		25	3.3	ug/L		11/15/18 14:04	11/27/18 19:34	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		11/15/18 14:04	11/27/18 19:34	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
Caprolactam	ND		25	11	ug/L		11/15/18 14:04	11/27/18 19:34	5
Carbazole	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 19:34	5

Client Sample ID: BCC Area C MW-C01_1118

Lab Sample ID: 480-145165-1
Date Collected: 11/13/18 15:15
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 19:34	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 19:34	5
Dibenzofuran	ND		50	2.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
Diethyl phthalate	ND		25	1.1	ug/L		11/15/18 14:04	11/27/18 19:34	5
Dimethyl phthalate	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
Fluoranthene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
Fluorene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
Hexachlorobenzene	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
Hexachlorobutadiene	ND		25	3.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
Hexachloroethane	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 19:34	5
Isophorone	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 19:34	5
Naphthalene	ND		25	3.8	ug/L		11/15/18 14:04	11/27/18 19:34	5
Nitrobenzene	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 19:34	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 19:34	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 19:34	5
Pentachlorophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 19:34	5
Phenanthrene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 19:34	5
Phenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 19:34	5
Pyrene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 19:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*52*		*41 - 120*	*11/15/18 14:04*	*11/27/18 19:34*	*5*
2-Fluorobiphenyl	*72*		*48 - 120*	*11/15/18 14:04*	*11/27/18 19:34*	*5*
2-Fluorophenol	*47*		*35 - 120*	*11/15/18 14:04*	*11/27/18 19:34*	*5*
Nitrobenzene-d5	*62*		*46 - 120*	*11/15/18 14:04*	*11/27/18 19:34*	*5*
Phenol-d5	*31*		*22 - 120*	*11/15/18 14:04*	*11/27/18 19:34*	*5*
p-Terphenyl-d14	*67*		*59 - 136*	*11/15/18 14:04*	*11/27/18 19:34*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.3**		0.20	0.060	mg/L		11/19/18 09:30	11/20/18 22:00	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 22:00	1
Arsenic	ND		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 22:00	1
Barium	**0.32**		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 22:00	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 22:00	1
Cadmium	**0.00075**	**J**	0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 22:00	1
Calcium	**289**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:00	1
Chromium	**0.0076**		0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 22:00	1
Cobalt	**0.0012**	**J**	0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 22:00	1
Copper	**0.012**		0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 22:00	1
Iron	**3.0**	**B**	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 22:00	1
Lead	**0.019**		0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 22:00	1
Magnesium	**82.5**		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 22:00	1
Manganese	**0.51**	**B**	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 22:00	1
Nickel	**0.0066**	**J**	0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 22:00	1
Potassium	**29.9**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:00	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C01_1118

Lab Sample ID: 480-145165-1
Date Collected: 11/13/18 15:15
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 22:00	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 22:00	1
Sodium	**2480**		5.0	1.6	mg/L		11/19/18 09:30	11/21/18 10:43	5
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 22:00	1
Vanadium	**0.0027**	**J**	0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 22:00	1
Zinc	**0.095**		0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 22:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00028**		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:33	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C04_1118

Lab Sample ID: 480-145165-2

Date Collected: 11/13/18 09:00
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			11/20/18 01:39	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			11/20/18 01:39	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			11/20/18 01:39	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			11/20/18 01:39	10
1,1-Dichloroethane	ND		10	3.8	ug/L			11/20/18 01:39	10
1,1-Dichloroethene	ND		10	2.9	ug/L			11/20/18 01:39	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			11/20/18 01:39	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			11/20/18 01:39	10
1,2-Dibromoethane	ND		10	7.3	ug/L			11/20/18 01:39	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			11/20/18 01:39	10
1,2-Dichloroethane	ND		10	2.1	ug/L			11/20/18 01:39	10
1,2-Dichloropropane	ND		10	7.2	ug/L			11/20/18 01:39	10
1,3-Dichlorobenzene	**28**		10	7.8	ug/L			11/20/18 01:39	10
1,4-Dichlorobenzene	**49**		10	8.4	ug/L			11/20/18 01:39	10
2-Butanone (MEK)	ND		100	13	ug/L			11/20/18 01:39	10
2-Hexanone	ND		50	12	ug/L			11/20/18 01:39	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			11/20/18 01:39	10
Acetone	ND		100	30	ug/L			11/20/18 01:39	10
Benzene	ND		10	4.1	ug/L			11/20/18 01:39	10
Bromodichloromethane	ND		10	3.9	ug/L			11/20/18 01:39	10
Bromoform	ND		10	2.6	ug/L			11/20/18 01:39	10
Bromomethane	ND		10	6.9	ug/L			11/20/18 01:39	10
Carbon disulfide	ND		10	1.9	ug/L			11/20/18 01:39	10
Carbon tetrachloride	ND		10	2.7	ug/L			11/20/18 01:39	10
Chlorobenzene	**350**		10	7.5	ug/L			11/20/18 01:39	10
Chloroethane	ND		10	3.2	ug/L			11/20/18 01:39	10
Chloroform	ND		10	3.4	ug/L			11/20/18 01:39	10
Chloromethane	ND		10	3.5	ug/L			11/20/18 01:39	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			11/20/18 01:39	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			11/20/18 01:39	10
Cyclohexane	ND		10	1.8	ug/L			11/20/18 01:39	10
Dibromochloromethane	ND		10	3.2	ug/L			11/20/18 01:39	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			11/20/18 01:39	10
Ethylbenzene	ND		10	7.4	ug/L			11/20/18 01:39	10
Isopropylbenzene	ND		10	7.9	ug/L			11/20/18 01:39	10
Methyl acetate	ND		25	13	ug/L			11/20/18 01:39	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			11/20/18 01:39	10
Methylcyclohexane	ND		10	1.6	ug/L			11/20/18 01:39	10
Methylene Chloride	**8.8**	**J**	10	4.4	ug/L			11/20/18 01:39	10
Styrene	ND		10	7.3	ug/L			11/20/18 01:39	10
Tetrachloroethene	ND		10	3.6	ug/L			11/20/18 01:39	10
Toluene	ND		10	5.1	ug/L			11/20/18 01:39	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			11/20/18 01:39	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			11/20/18 01:39	10
Trichloroethene	ND		10	4.6	ug/L			11/20/18 01:39	10
Trichlorofluoromethane	ND		10	8.8	ug/L			11/20/18 01:39	10
Vinyl chloride	ND		10	9.0	ug/L			11/20/18 01:39	10
Xylenes, Total	ND		20	6.6	ug/L			11/20/18 01:39	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C04_1118

Date Collected: 11/13/18 09:00
Date Received: 11/13/18 15:40

Lab Sample ID: 480-145165-2

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*11/20/18 01:39*	*10*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*11/20/18 01:39*	*10*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/20/18 01:39*	*10*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*11/20/18 01:39*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 20:04	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/15/18 14:04	11/27/18 20:04	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 20:04	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/18 14:04	11/27/18 20:04	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 20:04	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 20:04	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:04	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 20:04	1
2-Chlorophenol	**0.74**	**J**	5.0	0.53	ug/L		11/15/18 14:04	11/27/18 20:04	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/15/18 14:04	11/27/18 20:04	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:04	1
2-Nitroaniline	ND		10	0.42	ug/L		11/15/18 14:04	11/27/18 20:04	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 20:04	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:04	1
3-Nitroaniline	ND		10	0.48	ug/L		11/15/18 14:04	11/27/18 20:04	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Methylphenol	ND		10	0.36	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Nitroaniline	ND		10	0.25	ug/L		11/15/18 14:04	11/27/18 20:04	1
4-Nitrophenol	ND		10	1.5	ug/L		11/15/18 14:04	11/27/18 20:04	1
Acenaphthene	ND		5.0	0.41	ug/L		11/15/18 14:04	11/27/18 20:04	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/15/18 14:04	11/27/18 20:04	1
Acetophenone	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 20:04	1
Aniline	**1.0**	**J**	10	0.61	ug/L		11/15/18 14:04	11/27/18 20:04	1
Anthracene	ND		5.0	0.28	ug/L		11/15/18 14:04	11/27/18 20:04	1
Atrazine	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 20:04	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/15/18 14:04	11/27/18 20:04	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 20:04	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 20:04	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 20:04	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 20:04	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/15/18 14:04	11/27/18 20:04	1
Biphenyl	ND		5.0	0.65	ug/L		11/15/18 14:04	11/27/18 20:04	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/15/18 14:04	11/27/18 20:04	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 20:04	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:04	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 20:04	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/15/18 14:04	11/27/18 20:04	1
Caprolactam	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 20:04	1
Carbazole	ND		5.0	0.30	ug/L		11/15/18 14:04	11/27/18 20:04	1

Client Sample ID: BCC Area C MW-C04_1118

Lab Sample ID: 480-145165-2
Date Collected: 11/13/18 09:00
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		11/15/18 14:04	11/27/18 20:04	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/15/18 14:04	11/27/18 20:04	1
Dibenzofuran	ND		10	0.51	ug/L		11/15/18 14:04	11/27/18 20:04	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/15/18 14:04	11/27/18 20:04	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 20:04	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/15/18 14:04	11/27/18 20:04	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 20:04	1
Fluoranthene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:04	1
Fluorene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 20:04	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 20:04	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/15/18 14:04	11/27/18 20:04	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 20:04	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 20:04	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 20:04	1
Isophorone	ND		5.0	0.43	ug/L		11/15/18 14:04	11/27/18 20:04	1
Naphthalene	ND		5.0	0.76	ug/L		11/15/18 14:04	11/27/18 20:04	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/15/18 14:04	11/27/18 20:04	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 20:04	1
N-Nitrosodiphenylamine	**0.86**	**J**	5.0	0.51	ug/L		11/15/18 14:04	11/27/18 20:04	1
Pentachlorophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 20:04	1
Phenanthrene	ND		5.0	0.44	ug/L		11/15/18 14:04	11/27/18 20:04	1
Phenol	ND		5.0	0.39	ug/L		11/15/18 14:04	11/27/18 20:04	1
Pyrene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*41 - 120*	*11/15/18 14:04*	*11/27/18 20:04*	*1*
2-Fluorobiphenyl	*77*		*48 - 120*	*11/15/18 14:04*	*11/27/18 20:04*	*1*
2-Fluorophenol	*50*		*35 - 120*	*11/15/18 14:04*	*11/27/18 20:04*	*1*
Nitrobenzene-d5	*68*		*46 - 120*	*11/15/18 14:04*	*11/27/18 20:04*	*1*
Phenol-d5	*38*		*22 - 120*	*11/15/18 14:04*	*11/27/18 20:04*	*1*
p-Terphenyl-d14	*63*		*59 - 136*	*11/15/18 14:04*	*11/27/18 20:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.096**	**J**	0.20	0.060	mg/L		11/19/18 09:30	11/20/18 22:03	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 22:03	1
Arsenic	ND		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 22:03	1
Barium	**0.63**		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 22:03	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 22:03	1
Cadmium	ND		0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 22:03	1
Calcium	**245**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:03	1
Chromium	ND		0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 22:03	1
Cobalt	ND		0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 22:03	1
Copper	**0.0051**	**J**	0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 22:03	1
Iron	**7.4**	**B**	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 22:03	1
Lead	**0.0040**	**J**	0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 22:03	1
Magnesium	**31.8**		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 22:03	1
Manganese	**1.1**	**B**	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 22:03	1
Nickel	ND		0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 22:03	1
Potassium	**10.4**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:03	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C04_1118

Lab Sample ID: 480-145165-2
Date Collected: 11/13/18 09:00
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 22:03	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 22:03	1
Sodium	**35.9**		1.0	0.32	mg/L		11/19/18 09:30	11/20/18 22:03	1
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 22:03	1
Vanadium	ND		0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 22:03	1
Zinc	**0.0094**	**J**	0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 22:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:35	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-04_1118

Lab Sample ID: 480-145165-3

Date Collected: 11/13/18 09:40

Matrix: Ground Water

Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/20/18 02:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/20/18 02:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/20/18 02:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/20/18 02:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/20/18 02:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/20/18 02:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/20/18 02:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/20/18 02:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/20/18 02:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/20/18 02:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/20/18 02:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/20/18 02:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/20/18 02:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/20/18 02:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/20/18 02:06	1
2-Hexanone	ND		5.0	1.2	ug/L			11/20/18 02:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/20/18 02:06	1
Acetone	ND		10	3.0	ug/L			11/20/18 02:06	1
Benzene	ND		1.0	0.41	ug/L			11/20/18 02:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/20/18 02:06	1
Bromoform	ND		1.0	0.26	ug/L			11/20/18 02:06	1
Bromomethane	ND		1.0	0.69	ug/L			11/20/18 02:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/20/18 02:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/20/18 02:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/20/18 02:06	1
Chloroethane	ND		1.0	0.32	ug/L			11/20/18 02:06	1
Chloroform	ND		1.0	0.34	ug/L			11/20/18 02:06	1
Chloromethane	ND		1.0	0.35	ug/L			11/20/18 02:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/20/18 02:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/20/18 02:06	1
Cyclohexane	ND		1.0	0.18	ug/L			11/20/18 02:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/20/18 02:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/20/18 02:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/20/18 02:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/20/18 02:06	1
Methyl acetate	ND		2.5	1.3	ug/L			11/20/18 02:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/20/18 02:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/20/18 02:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/20/18 02:06	1
Styrene	ND		1.0	0.73	ug/L			11/20/18 02:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/20/18 02:06	1
Toluene	ND		1.0	0.51	ug/L			11/20/18 02:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/20/18 02:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/20/18 02:06	1
Trichloroethene	ND		1.0	0.46	ug/L			11/20/18 02:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/20/18 02:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/20/18 02:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/20/18 02:06	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-04_1118

Lab Sample ID: 480-145165-3

Date Collected: 11/13/18 09:40
Matrix: Ground Water
Date Received: 11/13/18 15:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*11/20/18 02:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/20/18 02:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/20/18 02:06*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/20/18 02:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 20:34	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/15/18 14:04	11/27/18 20:34	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 20:34	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/18 14:04	11/27/18 20:34	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 20:34	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 20:34	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:34	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 20:34	1
2-Chlorophenol	ND		5.0	0.53	ug/L		11/15/18 14:04	11/27/18 20:34	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/15/18 14:04	11/27/18 20:34	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:34	1
2-Nitroaniline	ND		10	0.42	ug/L		11/15/18 14:04	11/27/18 20:34	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 20:34	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:34	1
3-Nitroaniline	ND		10	0.48	ug/L		11/15/18 14:04	11/27/18 20:34	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Methylphenol	ND		10	0.36	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Nitroaniline	ND		10	0.25	ug/L		11/15/18 14:04	11/27/18 20:34	1
4-Nitrophenol	ND		10	1.5	ug/L		11/15/18 14:04	11/27/18 20:34	1
Acenaphthene	ND		5.0	0.41	ug/L		11/15/18 14:04	11/27/18 20:34	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/15/18 14:04	11/27/18 20:34	1
Acetophenone	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 20:34	1
Aniline	ND		10	0.61	ug/L		11/15/18 14:04	11/27/18 20:34	1
Anthracene	ND		5.0	0.28	ug/L		11/15/18 14:04	11/27/18 20:34	1
Atrazine	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 20:34	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/15/18 14:04	11/27/18 20:34	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 20:34	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 20:34	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 20:34	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 20:34	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/15/18 14:04	11/27/18 20:34	1
Biphenyl	ND		5.0	0.65	ug/L		11/15/18 14:04	11/27/18 20:34	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/15/18 14:04	11/27/18 20:34	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 20:34	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:34	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 20:34	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/15/18 14:04	11/27/18 20:34	1
Caprolactam	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 20:34	1
Carbazole	ND		5.0	0.30	ug/L		11/15/18 14:04	11/27/18 20:34	1

Client Sample ID: BCC Area C PS-04_1118

Lab Sample ID: 480-145165-3

Date Collected: 11/13/18 09:40

Matrix: Ground Water

Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		11/15/18 14:04	11/27/18 20:34	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/15/18 14:04	11/27/18 20:34	1
Dibenzofuran	ND		10	0.51	ug/L		11/15/18 14:04	11/27/18 20:34	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/15/18 14:04	11/27/18 20:34	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 20:34	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/15/18 14:04	11/27/18 20:34	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 20:34	1
Fluoranthene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 20:34	1
Fluorene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 20:34	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 20:34	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/15/18 14:04	11/27/18 20:34	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 20:34	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 20:34	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 20:34	1
Isophorone	ND		5.0	0.43	ug/L		11/15/18 14:04	11/27/18 20:34	1
Naphthalene	ND		5.0	0.76	ug/L		11/15/18 14:04	11/27/18 20:34	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/15/18 14:04	11/27/18 20:34	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 20:34	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 20:34	1
Pentachlorophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 20:34	1
Phenanthrene	ND		5.0	0.44	ug/L		11/15/18 14:04	11/27/18 20:34	1
Phenol	ND		5.0	0.39	ug/L		11/15/18 14:04	11/27/18 20:34	1
Pyrene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*41 - 120*	*11/15/18 14:04*	*11/27/18 20:34*	*1*
2-Fluorobiphenyl	*68*		*48 - 120*	*11/15/18 14:04*	*11/27/18 20:34*	*1*
2-Fluorophenol	*43*		*35 - 120*	*11/15/18 14:04*	*11/27/18 20:34*	*1*
Nitrobenzene-d5	*63*		*46 - 120*	*11/15/18 14:04*	*11/27/18 20:34*	*1*
Phenol-d5	*32*		*22 - 120*	*11/15/18 14:04*	*11/27/18 20:34*	*1*
p-Terphenyl-d14	*64*		*59 - 136*	*11/15/18 14:04*	*11/27/18 20:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.066**	**J**	0.20	0.060	mg/L		11/19/18 09:30	11/20/18 22:07	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 22:07	1
Arsenic	ND		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 22:07	1
Barium	**0.050**		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 22:07	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 22:07	1
Cadmium	**0.0090**		0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 22:07	1
Calcium	**254**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:07	1
Chromium	**0.0011**	**J**	0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 22:07	1
Cobalt	**0.0039**	**J**	0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 22:07	1
Copper	**0.047**		0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 22:07	1
Iron	**0.14**	**B**	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 22:07	1
Lead	ND		0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 22:07	1
Magnesium	**33.2**		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 22:07	1
Manganese	**0.013**	**B**	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 22:07	1
Nickel	**0.067**		0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 22:07	1
Potassium	**10.2**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:07	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-04_1118

Lab Sample ID: 480-145165-3

Date Collected: 11/13/18 09:40
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 22:07	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 22:07	1
Sodium	**21.9**		1.0	0.32	mg/L		11/19/18 09:30	11/20/18 22:07	1
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 22:07	1
Vanadium	ND		0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 22:07	1
Zinc	**0.47**		0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 22:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:36	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-05A_1118

Lab Sample ID: 480-145165-4

Date Collected: 11/13/18 12:25
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			11/20/18 02:33	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			11/20/18 02:33	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			11/20/18 02:33	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			11/20/18 02:33	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			11/20/18 02:33	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			11/20/18 02:33	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			11/20/18 02:33	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			11/20/18 02:33	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			11/20/18 02:33	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			11/20/18 02:33	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			11/20/18 02:33	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			11/20/18 02:33	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			11/20/18 02:33	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			11/20/18 02:33	5
2-Butanone (MEK)	ND		50	6.6	ug/L			11/20/18 02:33	5
2-Hexanone	ND		25	6.2	ug/L			11/20/18 02:33	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			11/20/18 02:33	5
Acetone	ND		50	15	ug/L			11/20/18 02:33	5
Benzene	ND		5.0	2.1	ug/L			11/20/18 02:33	5
Bromodichloromethane	ND		5.0	2.0	ug/L			11/20/18 02:33	5
Bromoform	ND		5.0	1.3	ug/L			11/20/18 02:33	5
Bromomethane	ND		5.0	3.5	ug/L			11/20/18 02:33	5
Carbon disulfide	ND		5.0	0.95	ug/L			11/20/18 02:33	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			11/20/18 02:33	5
Chlorobenzene	**220**		5.0	3.8	ug/L			11/20/18 02:33	5
Chloroethane	ND		5.0	1.6	ug/L			11/20/18 02:33	5
Chloroform	ND		5.0	1.7	ug/L			11/20/18 02:33	5
Chloromethane	ND		5.0	1.8	ug/L			11/20/18 02:33	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			11/20/18 02:33	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			11/20/18 02:33	5
Cyclohexane	ND		5.0	0.90	ug/L			11/20/18 02:33	5
Dibromochloromethane	ND		5.0	1.6	ug/L			11/20/18 02:33	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			11/20/18 02:33	5
Ethylbenzene	ND		5.0	3.7	ug/L			11/20/18 02:33	5
Isopropylbenzene	ND		5.0	4.0	ug/L			11/20/18 02:33	5
Methyl acetate	ND		13	6.5	ug/L			11/20/18 02:33	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			11/20/18 02:33	5
Methylcyclohexane	ND		5.0	0.80	ug/L			11/20/18 02:33	5
Methylene Chloride	**4.4**	**J**	5.0	2.2	ug/L			11/20/18 02:33	5
Styrene	ND		5.0	3.7	ug/L			11/20/18 02:33	5
Tetrachloroethene	ND		5.0	1.8	ug/L			11/20/18 02:33	5
Toluene	ND		5.0	2.6	ug/L			11/20/18 02:33	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			11/20/18 02:33	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			11/20/18 02:33	5
Trichloroethene	ND		5.0	2.3	ug/L			11/20/18 02:33	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			11/20/18 02:33	5
Vinyl chloride	ND		5.0	4.5	ug/L			11/20/18 02:33	5
Xylenes, Total	ND		10	3.3	ug/L			11/20/18 02:33	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-05A_1118

Date Collected: 11/13/18 12:25
Date Received: 11/13/18 15:40

Lab Sample ID: 480-145165-4

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*11/20/18 02:33*	*5*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/20/18 02:33*	*5*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/20/18 02:33*	*5*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*11/20/18 02:33*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		11/15/18 14:04	11/27/18 21:03	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		11/15/18 14:04	11/27/18 21:03	5
2,4-Dinitrophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 21:03	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 21:03	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
2-Chloronaphthalene	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
2-Chlorophenol	**3.2**	**J**	25	2.7	ug/L		11/15/18 14:04	11/27/18 21:03	5
2-Methylnaphthalene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
2-Methylphenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
2-Nitroaniline	ND		50	2.1	ug/L		11/15/18 14:04	11/27/18 21:03	5
2-Nitrophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
3-Nitroaniline	ND		50	2.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Chloroaniline	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Methylphenol	ND		50	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Nitroaniline	ND		50	1.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
4-Nitrophenol	ND		50	7.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
Acenaphthene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 21:03	5
Acenaphthylene	ND		25	1.9	ug/L		11/15/18 14:04	11/27/18 21:03	5
Acetophenone	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 21:03	5
Aniline	ND		50	3.1	ug/L		11/15/18 14:04	11/27/18 21:03	5
Anthracene	ND		25	1.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
Atrazine	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
Benzaldehyde	ND		25	1.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 21:03	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/15/18 14:04	11/27/18 21:03	5
Biphenyl	ND		25	3.3	ug/L		11/15/18 14:04	11/27/18 21:03	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		11/15/18 14:04	11/27/18 21:03	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
Caprolactam	ND		25	11	ug/L		11/15/18 14:04	11/27/18 21:03	5
Carbazole	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 21:03	5

Client Sample ID: BCC Area C PS-05A_1118

Lab Sample ID: 480-145165-4

Date Collected: 11/13/18 12:25

Matrix: Ground Water

Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 21:03	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 21:03	5
Dibenzofuran	ND		50	2.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
Diethyl phthalate	ND		25	1.1	ug/L		11/15/18 14:04	11/27/18 21:03	5
Dimethyl phthalate	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
Fluoranthene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
Fluorene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
Hexachlorobenzene	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
Hexachlorobutadiene	ND		25	3.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
Hexachloroethane	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:03	5
Isophorone	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 21:03	5
Naphthalene	ND		25	3.8	ug/L		11/15/18 14:04	11/27/18 21:03	5
Nitrobenzene	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 21:03	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 21:03	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:03	5
Pentachlorophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 21:03	5
Phenanthrene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 21:03	5
Phenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:03	5
Pyrene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 21:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*41 - 120*	*11/15/18 14:04*	*11/27/18 21:03*	*5*
2-Fluorobiphenyl	*75*		*48 - 120*	*11/15/18 14:04*	*11/27/18 21:03*	*5*
2-Fluorophenol	*52*		*35 - 120*	*11/15/18 14:04*	*11/27/18 21:03*	*5*
Nitrobenzene-d5	*63*		*46 - 120*	*11/15/18 14:04*	*11/27/18 21:03*	*5*
Phenol-d5	*34*		*22 - 120*	*11/15/18 14:04*	*11/27/18 21:03*	*5*
p-Terphenyl-d14	*67*		*59 - 136*	*11/15/18 14:04*	*11/27/18 21:03*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.063**	**J**	0.20	0.060	mg/L		11/19/18 09:30	11/20/18 22:11	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 22:11	1
Arsenic	**0.18**		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 22:11	1
Barium	**0.020**		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 22:11	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 22:11	1
Cadmium	ND		0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 22:11	1
Calcium	**268**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:11	1
Chromium	ND		0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 22:11	1
Cobalt	**0.0013**	**J**	0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 22:11	1
Copper	ND		0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 22:11	1
Iron	**31.0**	**B**	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 22:11	1
Lead	ND		0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 22:11	1
Magnesium	**25.7**		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 22:11	1
Manganese	**0.38**	**B**	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 22:11	1
Nickel	**0.0031**	**J**	0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 22:11	1
Potassium	**15.7**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:11	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-05A_1118

Lab Sample ID: 480-145165-4

Date Collected: 11/13/18 12:25
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 22:11	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 22:11	1
Sodium	**109**		1.0	0.32	mg/L		11/19/18 09:30	11/20/18 22:11	1
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 22:11	1
Vanadium	ND		0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 22:11	1
Zinc	**0.028**		0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 22:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:37	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-06_1118

Lab Sample ID: 480-145165-5

Date Collected: 11/13/18 13:15
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			11/20/18 03:00	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			11/20/18 03:00	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			11/20/18 03:00	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			11/20/18 03:00	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			11/20/18 03:00	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			11/20/18 03:00	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			11/20/18 03:00	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			11/20/18 03:00	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			11/20/18 03:00	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			11/20/18 03:00	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			11/20/18 03:00	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			11/20/18 03:00	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			11/20/18 03:00	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			11/20/18 03:00	5
2-Butanone (MEK)	ND		50	6.6	ug/L			11/20/18 03:00	5
2-Hexanone	ND		25	6.2	ug/L			11/20/18 03:00	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			11/20/18 03:00	5
Acetone	ND		50	15	ug/L			11/20/18 03:00	5
Benzene	ND		5.0	2.1	ug/L			11/20/18 03:00	5
Bromodichloromethane	ND		5.0	2.0	ug/L			11/20/18 03:00	5
Bromoform	ND		5.0	1.3	ug/L			11/20/18 03:00	5
Bromomethane	ND		5.0	3.5	ug/L			11/20/18 03:00	5
Carbon disulfide	ND		5.0	0.95	ug/L			11/20/18 03:00	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			11/20/18 03:00	5
Chlorobenzene	ND		5.0	3.8	ug/L			11/20/18 03:00	5
Chloroethane	ND		5.0	1.6	ug/L			11/20/18 03:00	5
Chloroform	ND		5.0	1.7	ug/L			11/20/18 03:00	5
Chloromethane	ND		5.0	1.8	ug/L			11/20/18 03:00	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			11/20/18 03:00	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			11/20/18 03:00	5
Cyclohexane	ND		5.0	0.90	ug/L			11/20/18 03:00	5
Dibromochloromethane	ND		5.0	1.6	ug/L			11/20/18 03:00	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			11/20/18 03:00	5
Ethylbenzene	ND		5.0	3.7	ug/L			11/20/18 03:00	5
Isopropylbenzene	ND		5.0	4.0	ug/L			11/20/18 03:00	5
Methyl acetate	ND		13	6.5	ug/L			11/20/18 03:00	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			11/20/18 03:00	5
Methylcyclohexane	ND		5.0	0.80	ug/L			11/20/18 03:00	5
Methylene Chloride	**4.4**	**J**	5.0	2.2	ug/L			11/20/18 03:00	5
Styrene	ND		5.0	3.7	ug/L			11/20/18 03:00	5
Tetrachloroethene	ND		5.0	1.8	ug/L			11/20/18 03:00	5
Toluene	ND		5.0	2.6	ug/L			11/20/18 03:00	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			11/20/18 03:00	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			11/20/18 03:00	5
Trichloroethene	ND		5.0	2.3	ug/L			11/20/18 03:00	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			11/20/18 03:00	5
Vinyl chloride	ND		5.0	4.5	ug/L			11/20/18 03:00	5
Xylenes, Total	ND		10	3.3	ug/L			11/20/18 03:00	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-06_1118

Date Collected: 11/13/18 13:15
Date Received: 11/13/18 15:40

Lab Sample ID: 480-145165-5

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*11/20/18 03:00*	*5*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*11/20/18 03:00*	*5*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/20/18 03:00*	*5*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*11/20/18 03:00*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		11/15/18 14:04	11/27/18 21:33	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		11/15/18 14:04	11/27/18 21:33	5
2,4-Dinitrophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 21:33	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 21:33	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
2-Chloronaphthalene	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
2-Chlorophenol	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 21:33	5
2-Methylnaphthalene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
2-Methylphenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
2-Nitroaniline	ND		50	2.1	ug/L		11/15/18 14:04	11/27/18 21:33	5
2-Nitrophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
3-Nitroaniline	ND		50	2.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Chloroaniline	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Methylphenol	ND		50	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Nitroaniline	ND		50	1.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
4-Nitrophenol	ND		50	7.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
Acenaphthene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 21:33	5
Acenaphthylene	ND		25	1.9	ug/L		11/15/18 14:04	11/27/18 21:33	5
Acetophenone	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 21:33	5
Aniline	ND		50	3.1	ug/L		11/15/18 14:04	11/27/18 21:33	5
Anthracene	ND		25	1.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
Atrazine	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
Benzaldehyde	ND		25	1.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 21:33	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/15/18 14:04	11/27/18 21:33	5
Biphenyl	ND		25	3.3	ug/L		11/15/18 14:04	11/27/18 21:33	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		11/15/18 14:04	11/27/18 21:33	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
Caprolactam	ND		25	11	ug/L		11/15/18 14:04	11/27/18 21:33	5
Carbazole	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 21:33	5

Client Sample ID: BCC Area C PS-06_1118

Lab Sample ID: 480-145165-5

Date Collected: 11/13/18 13:15

Matrix: Ground Water

Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 21:33	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 21:33	5
Dibenzofuran	ND		50	2.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
Diethyl phthalate	ND		25	1.1	ug/L		11/15/18 14:04	11/27/18 21:33	5
Dimethyl phthalate	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
Fluoranthene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
Fluorene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
Hexachlorobenzene	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
Hexachlorobutadiene	ND		25	3.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
Hexachloroethane	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 21:33	5
Isophorone	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 21:33	5
Naphthalene	ND		25	3.8	ug/L		11/15/18 14:04	11/27/18 21:33	5
Nitrobenzene	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 21:33	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 21:33	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 21:33	5
Pentachlorophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 21:33	5
Phenanthrene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 21:33	5
Phenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 21:33	5
Pyrene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 21:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*41 - 120*	*11/15/18 14:04*	*11/27/18 21:33*	*5*
2-Fluorobiphenyl	*72*		*48 - 120*	*11/15/18 14:04*	*11/27/18 21:33*	*5*
2-Fluorophenol	*54*		*35 - 120*	*11/15/18 14:04*	*11/27/18 21:33*	*5*
Nitrobenzene-d5	*64*		*46 - 120*	*11/15/18 14:04*	*11/27/18 21:33*	*5*
Phenol-d5	*38*		*22 - 120*	*11/15/18 14:04*	*11/27/18 21:33*	*5*
p-Terphenyl-d14	*55*	*X*	*59 - 136*	*11/15/18 14:04*	*11/27/18 21:33*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**	**J**	0.20	0.060	mg/L		11/19/18 09:30	11/20/18 22:14	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 22:14	1
Arsenic	**0.097**		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 22:14	1
Barium	**0.012**		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 22:14	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 22:14	1
Cadmium	ND		0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 22:14	1
Calcium	**226**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:14	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 22:14	1
Cobalt	ND		0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 22:14	1
Copper	ND		0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 22:14	1
Iron	**41.8**	**B**	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 22:14	1
Lead	ND		0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 22:14	1
Magnesium	**9.7**		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 22:14	1
Manganese	**0.19**	**B**	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 22:14	1
Nickel	**0.0030**	**J**	0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 22:14	1
Potassium	**62.1**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:14	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-06_1118

Lab Sample ID: 480-145165-5

Date Collected: 11/13/18 13:15

Matrix: Ground Water

Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 22:14	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 22:14	1
Sodium	**64.9**		1.0	0.32	mg/L		11/19/18 09:30	11/20/18 22:14	1
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 22:14	1
Vanadium	ND		0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 22:14	1
Zinc	**0.0097**	**J**	0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 22:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:39	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20_1118

Lab Sample ID: 480-145165-6

Date Collected: 11/13/18 10:20
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/20/18 03:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/20/18 03:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/20/18 03:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/20/18 03:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/20/18 03:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/20/18 03:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/20/18 03:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/20/18 03:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/20/18 03:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/20/18 03:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/20/18 03:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/20/18 03:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/20/18 03:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/20/18 03:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/20/18 03:26	1
2-Hexanone	ND		5.0	1.2	ug/L			11/20/18 03:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/20/18 03:26	1
Acetone	ND		10	3.0	ug/L			11/20/18 03:26	1
Benzene	ND		1.0	0.41	ug/L			11/20/18 03:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/20/18 03:26	1
Bromoform	ND		1.0	0.26	ug/L			11/20/18 03:26	1
Bromomethane	ND		1.0	0.69	ug/L			11/20/18 03:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/20/18 03:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/20/18 03:26	1
Chlorobenzene	**24**		1.0	0.75	ug/L			11/20/18 03:26	1
Chloroethane	ND		1.0	0.32	ug/L			11/20/18 03:26	1
Chloroform	ND		1.0	0.34	ug/L			11/20/18 03:26	1
Chloromethane	ND		1.0	0.35	ug/L			11/20/18 03:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/20/18 03:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/20/18 03:26	1
Cyclohexane	ND		1.0	0.18	ug/L			11/20/18 03:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/20/18 03:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/20/18 03:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/20/18 03:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/20/18 03:26	1
Methyl acetate	ND		2.5	1.3	ug/L			11/20/18 03:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/20/18 03:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/20/18 03:26	1
Methylene Chloride	**0.48**	**J**	1.0	0.44	ug/L			11/20/18 03:26	1
Styrene	ND		1.0	0.73	ug/L			11/20/18 03:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/20/18 03:26	1
Toluene	ND		1.0	0.51	ug/L			11/20/18 03:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/20/18 03:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/20/18 03:26	1
Trichloroethene	ND		1.0	0.46	ug/L			11/20/18 03:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/20/18 03:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/20/18 03:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/20/18 03:26	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20_1118

Date Collected: 11/13/18 10:20
Date Received: 11/13/18 15:40

Lab Sample ID: 480-145165-6

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*11/20/18 03:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*11/20/18 03:26*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/20/18 03:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/20/18 03:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 17:06	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/15/18 14:04	11/27/18 17:06	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 17:06	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/18 14:04	11/27/18 17:06	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 17:06	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 17:06	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 17:06	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 17:06	1
2-Chlorophenol	ND		5.0	0.53	ug/L		11/15/18 14:04	11/27/18 17:06	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/15/18 14:04	11/27/18 17:06	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 17:06	1
2-Nitroaniline	ND		10	0.42	ug/L		11/15/18 14:04	11/27/18 17:06	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 17:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 17:06	1
3-Nitroaniline	ND		10	0.48	ug/L		11/15/18 14:04	11/27/18 17:06	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Methylphenol	ND		10	0.36	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Nitroaniline	ND		10	0.25	ug/L		11/15/18 14:04	11/27/18 17:06	1
4-Nitrophenol	ND		10	1.5	ug/L		11/15/18 14:04	11/27/18 17:06	1
Acenaphthene	ND		5.0	0.41	ug/L		11/15/18 14:04	11/27/18 17:06	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/15/18 14:04	11/27/18 17:06	1
Acetophenone	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 17:06	1
Aniline	ND		10	0.61	ug/L		11/15/18 14:04	11/27/18 17:06	1
Anthracene	ND		5.0	0.28	ug/L		11/15/18 14:04	11/27/18 17:06	1
Atrazine	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 17:06	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/15/18 14:04	11/27/18 17:06	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 17:06	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 17:06	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 17:06	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 17:06	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/15/18 14:04	11/27/18 17:06	1
Biphenyl	ND		5.0	0.65	ug/L		11/15/18 14:04	11/27/18 17:06	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/15/18 14:04	11/27/18 17:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 17:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 17:06	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 17:06	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/15/18 14:04	11/27/18 17:06	1
Caprolactam	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 17:06	1
Carbazole	ND		5.0	0.30	ug/L		11/15/18 14:04	11/27/18 17:06	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20_1118

Lab Sample ID: 480-145165-6

Date Collected: 11/13/18 10:20
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		11/15/18 14:04	11/27/18 17:06	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/15/18 14:04	11/27/18 17:06	1
Dibenzofuran	ND		10	0.51	ug/L		11/15/18 14:04	11/27/18 17:06	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/15/18 14:04	11/27/18 17:06	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 17:06	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/15/18 14:04	11/27/18 17:06	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 17:06	1
Fluoranthene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 17:06	1
Fluorene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 17:06	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 17:06	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/15/18 14:04	11/27/18 17:06	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 17:06	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 17:06	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 17:06	1
Isophorone	ND		5.0	0.43	ug/L		11/15/18 14:04	11/27/18 17:06	1
Naphthalene	ND		5.0	0.76	ug/L		11/15/18 14:04	11/27/18 17:06	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/15/18 14:04	11/27/18 17:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 17:06	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 17:06	1
Pentachlorophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 17:06	1
Phenanthrene	ND		5.0	0.44	ug/L		11/15/18 14:04	11/27/18 17:06	1
Phenol	ND		5.0	0.39	ug/L		11/15/18 14:04	11/27/18 17:06	1
Pyrene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*41 - 120*	*11/15/18 14:04*	*11/27/18 17:06*	*1*
2-Fluorobiphenyl	*76*		*48 - 120*	*11/15/18 14:04*	*11/27/18 17:06*	*1*
2-Fluorophenol	*50*		*35 - 120*	*11/15/18 14:04*	*11/27/18 17:06*	*1*
Nitrobenzene-d5	*69*		*46 - 120*	*11/15/18 14:04*	*11/27/18 17:06*	*1*
Phenol-d5	*37*		*22 - 120*	*11/15/18 14:04*	*11/27/18 17:06*	*1*
p-Terphenyl-d14	*70*		*59 - 136*	*11/15/18 14:04*	*11/27/18 17:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.077**	**J**	0.20	0.060	mg/L		11/19/18 09:30	11/20/18 22:18	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 22:18	1
Arsenic	ND		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 22:18	1
Barium	**0.067**		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 22:18	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 22:18	1
Cadmium	ND		0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 22:18	1
Calcium	**236**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:18	1
Chromium	ND		0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 22:18	1
Cobalt	ND		0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 22:18	1
Copper	ND		0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 22:18	1
Iron	**5.9**	**B**	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 22:18	1
Lead	ND		0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 22:18	1
Magnesium	**22.3**		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 22:18	1
Manganese	**0.36**	**B**	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 22:18	1
Nickel	**0.0035**	**J**	0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 22:18	1
Potassium	**8.9**		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 22:18	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20_1118

Lab Sample ID: 480-145165-6

Date Collected: 11/13/18 10:20
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 22:18	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 22:18	1
Sodium	**28.3**		1.0	0.32	mg/L		11/19/18 09:30	11/20/18 22:18	1
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 22:18	1
Vanadium	ND		0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 22:18	1
Zinc	**0.0092**	**J**	0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 22:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:40	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-31_1118

Lab Sample ID: 480-145165-7

Date Collected: 11/13/18 14:30
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			11/20/18 03:53	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			11/20/18 03:53	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			11/20/18 03:53	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			11/20/18 03:53	10
1,1-Dichloroethane	ND		10	3.8	ug/L			11/20/18 03:53	10
1,1-Dichloroethene	ND		10	2.9	ug/L			11/20/18 03:53	10
1,2,4-Trichlorobenzene	**170**		10	4.1	ug/L			11/20/18 03:53	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			11/20/18 03:53	10
1,2-Dibromoethane	ND		10	7.3	ug/L			11/20/18 03:53	10
1,2-Dichlorobenzene	**8.1**	**J**	10	7.9	ug/L			11/20/18 03:53	10
1,2-Dichloroethane	ND		10	2.1	ug/L			11/20/18 03:53	10
1,2-Dichloropropane	ND		10	7.2	ug/L			11/20/18 03:53	10
1,3-Dichlorobenzene	**28**		10	7.8	ug/L			11/20/18 03:53	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			11/20/18 03:53	10
2-Butanone (MEK)	ND		100	13	ug/L			11/20/18 03:53	10
2-Hexanone	ND		50	12	ug/L			11/20/18 03:53	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			11/20/18 03:53	10
Acetone	ND		100	30	ug/L			11/20/18 03:53	10
Benzene	ND		10	4.1	ug/L			11/20/18 03:53	10
Bromodichloromethane	ND		10	3.9	ug/L			11/20/18 03:53	10
Bromoform	ND		10	2.6	ug/L			11/20/18 03:53	10
Bromomethane	ND		10	6.9	ug/L			11/20/18 03:53	10
Carbon disulfide	ND		10	1.9	ug/L			11/20/18 03:53	10
Carbon tetrachloride	ND		10	2.7	ug/L			11/20/18 03:53	10
Chlorobenzene	**18**		10	7.5	ug/L			11/20/18 03:53	10
Chloroethane	ND		10	3.2	ug/L			11/20/18 03:53	10
Chloroform	ND		10	3.4	ug/L			11/20/18 03:53	10
Chloromethane	ND		10	3.5	ug/L			11/20/18 03:53	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			11/20/18 03:53	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			11/20/18 03:53	10
Cyclohexane	ND		10	1.8	ug/L			11/20/18 03:53	10
Dibromochloromethane	ND		10	3.2	ug/L			11/20/18 03:53	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			11/20/18 03:53	10
Ethylbenzene	ND		10	7.4	ug/L			11/20/18 03:53	10
Isopropylbenzene	ND		10	7.9	ug/L			11/20/18 03:53	10
Methyl acetate	ND		25	13	ug/L			11/20/18 03:53	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			11/20/18 03:53	10
Methylcyclohexane	ND		10	1.6	ug/L			11/20/18 03:53	10
Methylene Chloride	**8.7**	**J**	10	4.4	ug/L			11/20/18 03:53	10
Styrene	ND		10	7.3	ug/L			11/20/18 03:53	10
Tetrachloroethene	ND		10	3.6	ug/L			11/20/18 03:53	10
Toluene	ND		10	5.1	ug/L			11/20/18 03:53	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			11/20/18 03:53	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			11/20/18 03:53	10
Trichloroethene	ND		10	4.6	ug/L			11/20/18 03:53	10
Trichlorofluoromethane	ND		10	8.8	ug/L			11/20/18 03:53	10
Vinyl chloride	ND		10	9.0	ug/L			11/20/18 03:53	10
Xylenes, Total	ND		20	6.6	ug/L			11/20/18 03:53	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-31_1118

Lab Sample ID: 480-145165-7

Date Collected: 11/13/18 14:30
Matrix: Ground Water
Date Received: 11/13/18 15:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*11/20/18 03:53*	*10*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*11/20/18 03:53*	*10*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/20/18 03:53*	*10*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*11/20/18 03:53*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		11/15/18 14:04	11/27/18 22:03	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		11/15/18 14:04	11/27/18 22:03	5
2,4-Dinitrophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 22:03	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 22:03	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
2-Chloronaphthalene	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
2-Chlorophenol	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 22:03	5
2-Methylnaphthalene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
2-Methylphenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
2-Nitroaniline	ND		50	2.1	ug/L		11/15/18 14:04	11/27/18 22:03	5
2-Nitrophenol	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
3-Nitroaniline	ND		50	2.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Chloroaniline	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Methylphenol	ND		50	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Nitroaniline	ND		50	1.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
4-Nitrophenol	ND		50	7.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
Acenaphthene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 22:03	5
Acenaphthylene	ND		25	1.9	ug/L		11/15/18 14:04	11/27/18 22:03	5
Acetophenone	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 22:03	5
Aniline	ND		50	3.1	ug/L		11/15/18 14:04	11/27/18 22:03	5
Anthracene	ND		25	1.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
Atrazine	ND		25	2.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
Benzaldehyde	ND		25	1.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 22:03	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/15/18 14:04	11/27/18 22:03	5
Biphenyl	ND		25	3.3	ug/L		11/15/18 14:04	11/27/18 22:03	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		11/15/18 14:04	11/27/18 22:03	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
Caprolactam	ND		25	11	ug/L		11/15/18 14:04	11/27/18 22:03	5
Carbazole	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 22:03	5

Client Sample ID: BCC Area C RFI-31_1118

Lab Sample ID: 480-145165-7
Date Collected: 11/13/18 14:30
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 22:03	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/15/18 14:04	11/27/18 22:03	5
Dibenzofuran	ND		50	2.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
Diethyl phthalate	ND		25	1.1	ug/L		11/15/18 14:04	11/27/18 22:03	5
Dimethyl phthalate	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
Fluoranthene	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
Fluorene	ND		25	1.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
Hexachlorobenzene	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
Hexachlorobutadiene	ND		25	3.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
Hexachloroethane	ND		25	3.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		11/15/18 14:04	11/27/18 22:03	5
Isophorone	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 22:03	5
Naphthalene	ND		25	3.8	ug/L		11/15/18 14:04	11/27/18 22:03	5
Nitrobenzene	ND		25	1.5	ug/L		11/15/18 14:04	11/27/18 22:03	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		11/15/18 14:04	11/27/18 22:03	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		11/15/18 14:04	11/27/18 22:03	5
Pentachlorophenol	ND		50	11	ug/L		11/15/18 14:04	11/27/18 22:03	5
Phenanthrene	ND		25	2.2	ug/L		11/15/18 14:04	11/27/18 22:03	5
Phenol	ND		25	2.0	ug/L		11/15/18 14:04	11/27/18 22:03	5
Pyrene	ND		25	1.7	ug/L		11/15/18 14:04	11/27/18 22:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*41 - 120*	*11/15/18 14:04*	*11/27/18 22:03*	*5*
2-Fluorobiphenyl	*72*		*48 - 120*	*11/15/18 14:04*	*11/27/18 22:03*	*5*
2-Fluorophenol	*53*		*35 - 120*	*11/15/18 14:04*	*11/27/18 22:03*	*5*
Nitrobenzene-d5	*66*		*46 - 120*	*11/15/18 14:04*	*11/27/18 22:03*	*5*
Phenol-d5	*35*		*22 - 120*	*11/15/18 14:04*	*11/27/18 22:03*	*5*
p-Terphenyl-d14	*58*	*X*	*59 - 136*	*11/15/18 14:04*	*11/27/18 22:03*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**	**J**	0.20	0.060	mg/L		11/21/18 09:48	11/21/18 17:47	1
Antimony	ND		0.020	0.0068	mg/L		11/21/18 09:48	11/21/18 17:47	1
Arsenic	ND		0.015	0.0056	mg/L		11/21/18 09:48	11/21/18 17:47	1
Barium	**0.022**		0.0020	0.00070	mg/L		11/21/18 09:48	11/21/18 17:47	1
Beryllium	ND		0.0020	0.00030	mg/L		11/21/18 09:48	11/21/18 17:47	1
Cadmium	**0.00081**	**J**	0.0020	0.00050	mg/L		11/21/18 09:48	11/21/18 17:47	1
Calcium	**355**		0.50	0.10	mg/L		11/21/18 09:48	11/21/18 17:47	1
Chromium	**0.0017**	**J**	0.0040	0.0010	mg/L		11/21/18 09:48	11/21/18 17:47	1
Cobalt	**0.0028**	**J**	0.0040	0.00063	mg/L		11/21/18 09:48	11/21/18 17:47	1
Copper	ND		0.010	0.0016	mg/L		11/21/18 09:48	11/21/18 17:47	1
Iron	**0.71**		0.050	0.019	mg/L		11/21/18 09:48	11/21/18 17:47	1
Lead	ND		0.010	0.0030	mg/L		11/21/18 09:48	11/21/18 17:47	1
Magnesium	**114**		0.20	0.043	mg/L		11/21/18 09:48	11/21/18 17:47	1
Manganese	**1.4**		0.0030	0.00040	mg/L		11/21/18 09:48	11/21/18 17:47	1
Nickel	**0.0054**	**J**	0.010	0.0013	mg/L		11/21/18 09:48	11/21/18 17:47	1
Potassium	**15.6**		0.50	0.10	mg/L		11/21/18 09:48	11/21/18 17:47	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-31_1118

Lab Sample ID: 480-145165-7
Date Collected: 11/13/18 14:30
Matrix: Ground Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/21/18 09:48	11/21/18 17:47	1
Silver	ND		0.0060	0.0017	mg/L		11/21/18 09:48	11/21/18 17:47	1
Sodium	**1960**		10.0	3.2	mg/L		11/21/18 09:48	11/28/18 10:31	10
Thallium	ND		0.020	0.010	mg/L		11/21/18 09:48	11/21/18 17:47	1
Vanadium	ND		0.0050	0.0015	mg/L		11/21/18 09:48	11/21/18 17:47	1
Zinc	**0.0099**	**J**	0.010	0.0015	mg/L		11/21/18 09:48	11/23/18 14:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:48	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-145165-8

Date Collected: 11/13/18 00:00
Date Received: 11/13/18 15:40

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/20/18 04:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/20/18 04:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/20/18 04:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/20/18 04:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/20/18 04:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/20/18 04:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/20/18 04:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/20/18 04:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/20/18 04:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/20/18 04:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/20/18 04:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/20/18 04:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/20/18 04:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/20/18 04:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/20/18 04:20	1
2-Hexanone	ND		5.0	1.2	ug/L			11/20/18 04:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/20/18 04:20	1
Acetone	ND		10	3.0	ug/L			11/20/18 04:20	1
Benzene	ND		1.0	0.41	ug/L			11/20/18 04:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/20/18 04:20	1
Bromoform	ND		1.0	0.26	ug/L			11/20/18 04:20	1
Bromomethane	ND		1.0	0.69	ug/L			11/20/18 04:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/20/18 04:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/20/18 04:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/20/18 04:20	1
Chloroethane	ND		1.0	0.32	ug/L			11/20/18 04:20	1
Chloroform	ND		1.0	0.34	ug/L			11/20/18 04:20	1
Chloromethane	ND		1.0	0.35	ug/L			11/20/18 04:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/20/18 04:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/20/18 04:20	1
Cyclohexane	ND		1.0	0.18	ug/L			11/20/18 04:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/20/18 04:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/20/18 04:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/20/18 04:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/20/18 04:20	1
Methyl acetate	ND		2.5	1.3	ug/L			11/20/18 04:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/20/18 04:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/20/18 04:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/20/18 04:20	1
Styrene	ND		1.0	0.73	ug/L			11/20/18 04:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/20/18 04:20	1
Toluene	ND		1.0	0.51	ug/L			11/20/18 04:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/20/18 04:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/20/18 04:20	1
Trichloroethene	ND		1.0	0.46	ug/L			11/20/18 04:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/20/18 04:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/20/18 04:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/20/18 04:20	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-145165-8

Date Collected: 11/13/18 00:00

Matrix: Water

Date Received: 11/13/18 15:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		11/20/18 04:20	1
4-Bromofluorobenzene (Surr)	102		73 - 120		11/20/18 04:20	1
Toluene-d8 (Surr)	96		80 - 120		11/20/18 04:20	1
Dibromofluoromethane (Surr)	102		75 - 123		11/20/18 04:20	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20 D_1118

Lab Sample ID: 480-145165-9

Date Collected: 11/13/18 10:30
Matrix: Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/20/18 04:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/20/18 04:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/20/18 04:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/20/18 04:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/20/18 04:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/20/18 04:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/20/18 04:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/20/18 04:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/20/18 04:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/20/18 04:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/20/18 04:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/20/18 04:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/20/18 04:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/20/18 04:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/20/18 04:47	1
2-Hexanone	ND		5.0	1.2	ug/L			11/20/18 04:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/20/18 04:47	1
Acetone	ND		10	3.0	ug/L			11/20/18 04:47	1
Benzene	ND		1.0	0.41	ug/L			11/20/18 04:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/20/18 04:47	1
Bromoform	ND		1.0	0.26	ug/L			11/20/18 04:47	1
Bromomethane	ND		1.0	0.69	ug/L			11/20/18 04:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/20/18 04:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/20/18 04:47	1
Chlorobenzene	**24**		1.0	0.75	ug/L			11/20/18 04:47	1
Chloroethane	ND		1.0	0.32	ug/L			11/20/18 04:47	1
Chloroform	ND		1.0	0.34	ug/L			11/20/18 04:47	1
Chloromethane	ND		1.0	0.35	ug/L			11/20/18 04:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/20/18 04:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/20/18 04:47	1
Cyclohexane	ND		1.0	0.18	ug/L			11/20/18 04:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/20/18 04:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/20/18 04:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/20/18 04:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/20/18 04:47	1
Methyl acetate	ND		2.5	1.3	ug/L			11/20/18 04:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/20/18 04:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/20/18 04:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/20/18 04:47	1
Styrene	ND		1.0	0.73	ug/L			11/20/18 04:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/20/18 04:47	1
Toluene	ND		1.0	0.51	ug/L			11/20/18 04:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/20/18 04:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/20/18 04:47	1
Trichloroethene	ND		1.0	0.46	ug/L			11/20/18 04:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/20/18 04:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/20/18 04:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/20/18 04:47	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20 D_1118

Lab Sample ID: 480-145165-9

Date Collected: 11/13/18 10:30

Matrix: Water

Date Received: 11/13/18 15:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*11/20/18 04:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*11/20/18 04:47*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/20/18 04:47*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/20/18 04:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 22:32	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/15/18 14:04	11/27/18 22:32	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 22:32	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/18 14:04	11/27/18 22:32	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 22:32	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 22:32	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 22:32	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 22:32	1
2-Chlorophenol	ND		5.0	0.53	ug/L		11/15/18 14:04	11/27/18 22:32	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/15/18 14:04	11/27/18 22:32	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 22:32	1
2-Nitroaniline	ND		10	0.42	ug/L		11/15/18 14:04	11/27/18 22:32	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 22:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 22:32	1
3-Nitroaniline	ND		10	0.48	ug/L		11/15/18 14:04	11/27/18 22:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Methylphenol	ND		10	0.36	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Nitroaniline	ND		10	0.25	ug/L		11/15/18 14:04	11/27/18 22:32	1
4-Nitrophenol	ND		10	1.5	ug/L		11/15/18 14:04	11/27/18 22:32	1
Acenaphthene	ND		5.0	0.41	ug/L		11/15/18 14:04	11/27/18 22:32	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/15/18 14:04	11/27/18 22:32	1
Acetophenone	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 22:32	1
Aniline	ND		10	0.61	ug/L		11/15/18 14:04	11/27/18 22:32	1
Anthracene	ND		5.0	0.28	ug/L		11/15/18 14:04	11/27/18 22:32	1
Atrazine	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 22:32	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/15/18 14:04	11/27/18 22:32	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 22:32	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 22:32	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 22:32	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 22:32	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/15/18 14:04	11/27/18 22:32	1
Biphenyl	ND		5.0	0.65	ug/L		11/15/18 14:04	11/27/18 22:32	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/15/18 14:04	11/27/18 22:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 22:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 22:32	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 22:32	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/15/18 14:04	11/27/18 22:32	1
Caprolactam	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 22:32	1
Carbazole	ND		5.0	0.30	ug/L		11/15/18 14:04	11/27/18 22:32	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20 D_1118

Lab Sample ID: 480-145165-9

Date Collected: 11/13/18 10:30
Matrix: Water
Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		11/15/18 14:04	11/27/18 22:32	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/15/18 14:04	11/27/18 22:32	1
Dibenzofuran	ND		10	0.51	ug/L		11/15/18 14:04	11/27/18 22:32	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/15/18 14:04	11/27/18 22:32	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 22:32	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/15/18 14:04	11/27/18 22:32	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 22:32	1
Fluoranthene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 22:32	1
Fluorene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 22:32	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 22:32	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/15/18 14:04	11/27/18 22:32	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 22:32	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 22:32	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 22:32	1
Isophorone	ND		5.0	0.43	ug/L		11/15/18 14:04	11/27/18 22:32	1
Naphthalene	ND		5.0	0.76	ug/L		11/15/18 14:04	11/27/18 22:32	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/15/18 14:04	11/27/18 22:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 22:32	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 22:32	1
Pentachlorophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 22:32	1
Phenanthrene	ND		5.0	0.44	ug/L		11/15/18 14:04	11/27/18 22:32	1
Phenol	ND		5.0	0.39	ug/L		11/15/18 14:04	11/27/18 22:32	1
Pyrene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*41 - 120*	*11/15/18 14:04*	*11/27/18 22:32*	*1*
2-Fluorobiphenyl	*78*		*48 - 120*	*11/15/18 14:04*	*11/27/18 22:32*	*1*
2-Fluorophenol	*55*		*35 - 120*	*11/15/18 14:04*	*11/27/18 22:32*	*1*
Nitrobenzene-d5	*74*		*46 - 120*	*11/15/18 14:04*	*11/27/18 22:32*	*1*
Phenol-d5	*40*		*22 - 120*	*11/15/18 14:04*	*11/27/18 22:32*	*1*
p-Terphenyl-d14	*66*		*59 - 136*	*11/15/18 14:04*	*11/27/18 22:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.12**	**J**	0.20	0.060	mg/L		11/21/18 09:48	11/21/18 17:51	1
Antimony	ND		0.020	0.0068	mg/L		11/21/18 09:48	11/21/18 17:51	1
Arsenic	ND		0.015	0.0056	mg/L		11/21/18 09:48	11/21/18 17:51	1
Barium	**0.068**		0.0020	0.00070	mg/L		11/21/18 09:48	11/21/18 17:51	1
Beryllium	ND		0.0020	0.00030	mg/L		11/21/18 09:48	11/21/18 17:51	1
Cadmium	ND		0.0020	0.00050	mg/L		11/21/18 09:48	11/21/18 17:51	1
Calcium	**243**		0.50	0.10	mg/L		11/21/18 09:48	11/21/18 17:51	1
Chromium	ND		0.0040	0.0010	mg/L		11/21/18 09:48	11/21/18 17:51	1
Cobalt	ND		0.0040	0.00063	mg/L		11/21/18 09:48	11/21/18 17:51	1
Copper	ND		0.010	0.0016	mg/L		11/21/18 09:48	11/21/18 17:51	1
Iron	**6.0**		0.050	0.019	mg/L		11/21/18 09:48	11/21/18 17:51	1
Lead	ND		0.010	0.0030	mg/L		11/21/18 09:48	11/21/18 17:51	1
Magnesium	**22.7**		0.20	0.043	mg/L		11/21/18 09:48	11/21/18 17:51	1
Manganese	**0.35**		0.0030	0.00040	mg/L		11/21/18 09:48	11/21/18 17:51	1
Nickel	**0.0036**	**J**	0.010	0.0013	mg/L		11/21/18 09:48	11/21/18 17:51	1
Potassium	**9.3**		0.50	0.10	mg/L		11/21/18 09:48	11/21/18 17:51	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-20 D_1118

Lab Sample ID: 480-145165-9

Date Collected: 11/13/18 10:30

Matrix: Water

Date Received: 11/13/18 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		11/21/18 09:48	11/21/18 17:51	1
Silver	ND		0.0060	0.0017	mg/L		11/21/18 09:48	11/21/18 17:51	1
Sodium	**27.2**		1.0	0.32	mg/L		11/21/18 09:48	11/21/18 17:51	1
Thallium	ND		0.020	0.010	mg/L		11/21/18 09:48	11/21/18 17:51	1
Vanadium	ND		0.0050	0.0015	mg/L		11/21/18 09:48	11/21/18 17:51	1
Zinc	**0.0085**	**J**	0.010	0.0015	mg/L		11/21/18 09:48	11/23/18 14:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:49	1

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-145165-1	BCC Area C MW-C01_1118	109	107	93	96
480-145165-2	BCC Area C MW-C04_1118	106	108	94	97
480-145165-3	BCC Area C PS-04_1118	114	104	96	100
480-145165-4	BCC Area C PS-05A_1118	115	101	96	105
480-145165-5	BCC Area C PS-06_1118	108	109	96	94
480-145165-6	BCC Area C RFI-20_1118	109	107	95	100
480-145165-6 MS	BCC Area C RFI-20 MS_1118	110	106	96	99
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	108	105	98	99
480-145165-7	BCC Area C RFI-31_1118	110	105	95	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-145165-8	TRIP BLANK	112	102	96	102
480-145165-9	BCC Area C RFI-20 D_1118	111	105	93	101
LCS 480-446526/5	Lab Control Sample	111	104	97	102
MB 480-446526/7	Method Blank	106	103	93	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-145165-1	BCC Area C MW-C01_1118	52	72	47	62	31	67
480-145165-2	BCC Area C MW-C04_1118	80	77	50	68	38	63
480-145165-3	BCC Area C PS-04_1118	64	68	43	63	32	64
480-145165-4	BCC Area C PS-05A_1118	57	75	52	63	34	67
480-145165-5	BCC Area C PS-06_1118	61	72	54	64	38	55 X
480-145165-6	BCC Area C RFI-20_1118	76	76	50	69	37	70
480-145165-6 MS	BCC Area C RFI-20 MS_1118	85	76	57	77	46	72
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	81	73	51	71	43	64
480-145165-7	BCC Area C RFI-31_1118	69	72	53	66	35	58 X

Surrogate Legend

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	**Client Sample ID**	**(41-120)**	**(48-120)**	**(35-120)**	**(46-120)**	**(22-120)**	**(59-136)**
480-145165-9	BCC Area C RFI-20 D_1118	76	78	55	74	40	66
LCS 480-445844/2-A	Lab Control Sample	90	81	62	84	51	90
MB 480-445844/1-A	Method Blank	49	75	53	74	40	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-446526/7
Matrix: Water
Analysis Batch: 446526

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/19/18 22:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/19/18 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/19/18 22:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/19/18 22:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/19/18 22:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/19/18 22:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/19/18 22:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/19/18 22:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/19/18 22:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/19/18 22:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/19/18 22:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/19/18 22:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/19/18 22:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/19/18 22:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/19/18 22:17	1
2-Hexanone	ND		5.0	1.2	ug/L			11/19/18 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/19/18 22:17	1
Acetone	ND		10	3.0	ug/L			11/19/18 22:17	1
Benzene	ND		1.0	0.41	ug/L			11/19/18 22:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/19/18 22:17	1
Bromoform	ND		1.0	0.26	ug/L			11/19/18 22:17	1
Bromomethane	ND		1.0	0.69	ug/L			11/19/18 22:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/19/18 22:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/19/18 22:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/19/18 22:17	1
Chloroethane	ND		1.0	0.32	ug/L			11/19/18 22:17	1
Chloroform	ND		1.0	0.34	ug/L			11/19/18 22:17	1
Chloromethane	ND		1.0	0.35	ug/L			11/19/18 22:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/19/18 22:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/19/18 22:17	1
Cyclohexane	ND		1.0	0.18	ug/L			11/19/18 22:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/19/18 22:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/19/18 22:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/19/18 22:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/19/18 22:17	1
Methyl acetate	ND		2.5	1.3	ug/L			11/19/18 22:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/19/18 22:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/19/18 22:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/19/18 22:17	1
Styrene	ND		1.0	0.73	ug/L			11/19/18 22:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/19/18 22:17	1
Toluene	ND		1.0	0.51	ug/L			11/19/18 22:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/19/18 22:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/19/18 22:17	1
Trichloroethene	ND		1.0	0.46	ug/L			11/19/18 22:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/19/18 22:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/19/18 22:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/19/18 22:17	1

QC Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		11/19/18 22:17	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/19/18 22:17	1
Toluene-d8 (Surr)	93		80 - 120		11/19/18 22:17	1
Dibromofluoromethane (Surr)	95		75 - 123		11/19/18 22:17	1

Lab Sample ID: LCS 480-446526/5
Matrix: Water
Analysis Batch: 446526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	25.0	19.3		ug/L		77	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	61 - 148
1,1,2-Trichloroethane	25.0	21.8		ug/L		87	76 - 122
1,1-Dichloroethane	25.0	24.3		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	22.0		ug/L		88	66 - 127
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.1		ug/L		89	56 - 134
1,2-Dibromoethane	25.0	23.0		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	26.6		ug/L		106	75 - 120
1,2-Dichloropropane	25.0	23.5		ug/L		94	76 - 120
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	21.8		ug/L		87	80 - 120
2-Butanone (MEK)	125	126		ug/L		101	57 - 140
2-Hexanone	125	130		ug/L		104	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	141		ug/L		113	56 - 142
Benzene	25.0	21.8		ug/L		87	71 - 124
Bromodichloromethane	25.0	23.6		ug/L		95	80 - 122
Bromoform	25.0	23.0		ug/L		92	61 - 132
Bromomethane	25.0	22.5		ug/L		90	55 - 144
Carbon disulfide	25.0	20.1		ug/L		80	59 - 134
Carbon tetrachloride	25.0	24.5		ug/L		98	72 - 134
Chlorobenzene	25.0	23.9		ug/L		95	80 - 120
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	22.6		ug/L		91	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	21.3		ug/L		85	74 - 124
cis-1,3-Dichloropropene	25.0	22.1		ug/L		88	74 - 124
Cyclohexane	25.0	25.9		ug/L		104	59 - 135
Dibromochloromethane	25.0	22.9		ug/L		91	75 - 125
Dichlorodifluoromethane	25.0	23.2		ug/L		93	59 - 135
Ethylbenzene	25.0	22.8		ug/L		91	77 - 123
Isopropylbenzene	25.0	22.1		ug/L		89	77 - 122
Methyl acetate	50.0	47.9		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	22.6		ug/L		90	77 - 120
Methylcyclohexane	25.0	23.3		ug/L		93	68 - 134
Methylene Chloride	25.0	21.1		ug/L		84	75 - 124
Styrene	25.0	21.7		ug/L		87	80 - 120
Tetrachloroethene	25.0	25.9		ug/L		104	74 - 122
Toluene	25.0	21.7		ug/L		87	80 - 122
trans-1,2-Dichloroethene	25.0	21.2		ug/L		85	73 - 127

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

Lab Sample ID: LCS 480-446526/5
Matrix: Water
Analysis Batch: 446526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	23.0		ug/L		92	80 - 120
Trichloroethene	25.0	22.5		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	26.4		ug/L		106	62 - 150
Vinyl chloride	25.0	24.2		ug/L		97	65 - 133
Xylenes, Total	50.0	46.7		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-145165-6 MS
Matrix: Ground Water
Analysis Batch: 446526

Client Sample ID: BCC Area C RFI-20 MS_1118
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	26.5		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	20.5		ug/L		82	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.9		ug/L		92	61 - 148
1,1,2-Trichloroethane	ND		25.0	22.1		ug/L		88	76 - 122
1,1-Dichloroethane	ND		25.0	26.4		ug/L		105	77 - 120
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	24.1		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	21.1		ug/L		84	56 - 134
1,2-Dibromoethane	ND		25.0	22.9		ug/L		91	77 - 120
1,2-Dichlorobenzene	ND		25.0	24.3		ug/L		97	80 - 124
1,2-Dichloroethane	ND		25.0	27.0		ug/L		108	75 - 120
1,2-Dichloropropane	ND		25.0	24.7		ug/L		99	76 - 120
1,3-Dichlorobenzene	ND		25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	ND		25.0	23.3		ug/L		93	78 - 124
2-Butanone (MEK)	ND		125	123		ug/L		98	57 - 140
2-Hexanone	ND		125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	116		ug/L		93	71 - 125
Acetone	ND		125	122		ug/L		97	56 - 142
Benzene	ND		25.0	23.6		ug/L		95	71 - 124
Bromodichloromethane	ND		25.0	23.9		ug/L		96	80 - 122
Bromoform	ND		25.0	19.8		ug/L		79	61 - 132
Bromomethane	ND		25.0	25.3		ug/L		101	55 - 144
Carbon disulfide	ND		25.0	20.8		ug/L		83	59 - 134
Carbon tetrachloride	ND		25.0	27.5		ug/L		110	72 - 134
Chlorobenzene	24		25.0	47.9		ug/L		97	80 - 120
Chloroethane	ND		25.0	27.9		ug/L		112	69 - 136
Chloroform	ND		25.0	24.0		ug/L		96	73 - 127
Chloromethane	ND		25.0	29.5		ug/L		118	68 - 124
cis-1,2-Dichloroethene	ND		25.0	22.9		ug/L		92	74 - 124
cis-1,3-Dichloropropene	ND		25.0	22.7		ug/L		91	74 - 124

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

Lab Sample ID: 480-145165-6 MS
Matrix: Ground Water
Analysis Batch: 446526

Client Sample ID: BCC Area C RFI-20 MS_1118
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	ND		25.0	25.8		ug/L		103	59 - 135
Dibromochloromethane	ND		25.0	22.2		ug/L		89	75 - 125
Dichlorodifluoromethane	ND		25.0	24.4		ug/L		97	59 - 135
Ethylbenzene	ND		25.0	23.8		ug/L		95	77 - 123
Isopropylbenzene	ND		25.0	24.0		ug/L		96	77 - 122
Methyl acetate	ND		50.0	45.3		ug/L		91	74 - 133
Methyl tert-butyl ether	ND		25.0	22.7		ug/L		91	77 - 120
Methylcyclohexane	ND		25.0	21.8		ug/L		87	68 - 134
Methylene Chloride	0.48	J	25.0	21.4		ug/L		84	75 - 124
Styrene	ND		25.0	21.2		ug/L		85	80 - 120
Tetrachloroethene	ND		25.0	27.6		ug/L		110	74 - 122
Toluene	ND		25.0	22.6		ug/L		90	80 - 122
trans-1,2-Dichloroethene	ND		25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	ND		25.0	22.1		ug/L		89	80 - 120
Trichloroethene	ND		25.0	24.9		ug/L		99	74 - 123
Trichlorofluoromethane	ND		25.0	30.3		ug/L		121	62 - 150
Vinyl chloride	ND		25.0	29.0		ug/L		116	65 - 133
Xylenes, Total	ND		50.0	46.7		ug/L		93	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: 480-145165-6 MSD
Matrix: Ground Water
Analysis Batch: 446526

Client Sample ID: BCC Area C RFI-20 MSD_1118
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.0		ug/L		112	73 - 126	6	15
1,1,2,2-Tetrachloroethane	ND		25.0	21.2		ug/L		85	76 - 120	3	15
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		25.0	23.9		ug/L		96	61 - 148	4	20
1,1,2-Trichloroethane	ND		25.0	23.2		ug/L		93	76 - 122	5	15
1,1-Dichloroethane	ND		25.0	28.3		ug/L		113	77 - 120	7	20
1,1-Dichloroethene	ND		25.0	26.1		ug/L		104	66 - 127	9	16
1,2,4-Trichlorobenzene	ND		25.0	26.1		ug/L		105	79 - 122	8	20
1,2-Dibromo-3-Chloropropane	ND		25.0	22.4		ug/L		90	56 - 134	6	15
1,2-Dibromoethane	ND		25.0	24.2		ug/L		97	77 - 120	6	15
1,2-Dichlorobenzene	ND		25.0	25.5		ug/L		102	80 - 124	5	20
1,2-Dichloroethane	ND		25.0	29.3		ug/L		117	75 - 120	8	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	76 - 120	6	20
1,3-Dichlorobenzene	ND		25.0	25.0		ug/L		100	77 - 120	5	20
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		98	78 - 124	5	20
2-Butanone (MEK)	ND		125	128		ug/L		103	57 - 140	4	20
2-Hexanone	ND		125	137		ug/L		109	65 - 127	11	15
4-Methyl-2-pentanone (MIBK)	ND		125	130		ug/L		104	71 - 125	11	35

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

Lab Sample ID: 480-145165-6 MSD
Matrix: Ground Water
Analysis Batch: 446526

Client Sample ID: BCC Area C RFI-20 MSD_1118
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		125	133		ug/L		107	56 - 142	9	15
Benzene	ND		25.0	24.8		ug/L		99	71 - 124	5	13
Bromodichloromethane	ND		25.0	26.0		ug/L		104	80 - 122	8	15
Bromoform	ND		25.0	22.5		ug/L		90	61 - 132	13	15
Bromomethane	ND		25.0	25.5		ug/L		102	55 - 144	1	15
Carbon disulfide	ND		25.0	21.8		ug/L		87	59 - 134	5	15
Carbon tetrachloride	ND		25.0	29.0		ug/L		116	72 - 134	5	15
Chlorobenzene	24		25.0	51.2		ug/L		110	80 - 120	7	25
Chloroethane	ND		25.0	27.5		ug/L		110	69 - 136	2	15
Chloroform	ND		25.0	25.7		ug/L		103	73 - 127	7	20
Chloromethane	ND		25.0	28.4		ug/L		113	68 - 124	4	15
cis-1,2-Dichloroethene	ND		25.0	24.1		ug/L		97	74 - 124	5	15
cis-1,3-Dichloropropene	ND		25.0	23.6		ug/L		94	74 - 124	4	15
Cyclohexane	ND		25.0	28.0		ug/L		112	59 - 135	8	20
Dibromochloromethane	ND		25.0	24.1		ug/L		96	75 - 125	8	15
Dichlorodifluoromethane	ND		25.0	23.7		ug/L		95	59 - 135	3	20
Ethylbenzene	ND		25.0	26.1		ug/L		104	77 - 123	9	15
Isopropylbenzene	ND		25.0	25.5		ug/L		102	77 - 122	6	20
Methyl acetate	ND		50.0	47.7		ug/L		95	74 - 133	5	20
Methyl tert-butyl ether	ND		25.0	24.1		ug/L		97	77 - 120	6	37
Methylcyclohexane	ND		25.0	23.7		ug/L		95	68 - 134	8	20
Methylene Chloride	0.48	J	25.0	22.1		ug/L		86	75 - 124	3	15
Styrene	ND		25.0	23.7		ug/L		95	80 - 120	11	20
Tetrachloroethene	ND		25.0	29.8		ug/L		119	74 - 122	8	20
Toluene	ND		25.0	24.9		ug/L		99	80 - 122	10	15
trans-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	73 - 127	5	20
trans-1,3-Dichloropropene	ND		25.0	23.5		ug/L		94	80 - 120	6	15
Trichloroethene	ND		25.0	25.6		ug/L		102	74 - 123	3	16
Trichlorofluoromethane	ND		25.0	30.4		ug/L		122	62 - 150	0	20
Vinyl chloride	ND		25.0	28.3		ug/L		113	65 - 133	2	15
Xylenes, Total	ND		50.0	52.0		ug/L		104	76 - 122	11	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

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

Lab Sample ID: MB 480-445844/1-A
Matrix: Water
Analysis Batch: 447624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 13:37	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		11/15/18 14:04	11/27/18 13:37	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 13:37	1

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

Lab Sample ID: MB 480-445844/1-A
Matrix: Water
Analysis Batch: 447624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		11/15/18 14:04	11/27/18 13:37	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 13:37	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 13:37	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 13:37	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 13:37	1
2-Chlorophenol	ND		5.0	0.53	ug/L		11/15/18 14:04	11/27/18 13:37	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		11/15/18 14:04	11/27/18 13:37	1
2-Methylphenol	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 13:37	1
2-Nitroaniline	ND		10	0.42	ug/L		11/15/18 14:04	11/27/18 13:37	1
2-Nitrophenol	ND		5.0	0.48	ug/L		11/15/18 14:04	11/27/18 13:37	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 13:37	1
3-Nitroaniline	ND		10	0.48	ug/L		11/15/18 14:04	11/27/18 13:37	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Chloroaniline	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Methylphenol	ND		10	0.36	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Nitroaniline	ND		10	0.25	ug/L		11/15/18 14:04	11/27/18 13:37	1
4-Nitrophenol	ND		10	1.5	ug/L		11/15/18 14:04	11/27/18 13:37	1
Acenaphthene	ND		5.0	0.41	ug/L		11/15/18 14:04	11/27/18 13:37	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/15/18 14:04	11/27/18 13:37	1
Acetophenone	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 13:37	1
Aniline	ND		10	0.61	ug/L		11/15/18 14:04	11/27/18 13:37	1
Anthracene	ND		5.0	0.28	ug/L		11/15/18 14:04	11/27/18 13:37	1
Atrazine	ND		5.0	0.46	ug/L		11/15/18 14:04	11/27/18 13:37	1
Benzaldehyde	ND		5.0	0.27	ug/L		11/15/18 14:04	11/27/18 13:37	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 13:37	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 13:37	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 13:37	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 13:37	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/15/18 14:04	11/27/18 13:37	1
Biphenyl	ND		5.0	0.65	ug/L		11/15/18 14:04	11/27/18 13:37	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		11/15/18 14:04	11/27/18 13:37	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		11/15/18 14:04	11/27/18 13:37	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 13:37	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 13:37	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		11/15/18 14:04	11/27/18 13:37	1
Caprolactam	ND		5.0	2.2	ug/L		11/15/18 14:04	11/27/18 13:37	1
Carbazole	ND		5.0	0.30	ug/L		11/15/18 14:04	11/27/18 13:37	1
Chrysene	ND		5.0	0.33	ug/L		11/15/18 14:04	11/27/18 13:37	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/15/18 14:04	11/27/18 13:37	1
Dibenzofuran	ND		10	0.51	ug/L		11/15/18 14:04	11/27/18 13:37	1
Diethyl phthalate	ND		5.0	0.22	ug/L		11/15/18 14:04	11/27/18 13:37	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 13:37	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		11/15/18 14:04	11/27/18 13:37	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 13:37	1
Fluoranthene	ND		5.0	0.40	ug/L		11/15/18 14:04	11/27/18 13:37	1

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

Lab Sample ID: MB 480-445844/1-A
Matrix: Water
Analysis Batch: 447624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		5.0	0.36	ug/L		11/15/18 14:04	11/27/18 13:37	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 13:37	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		11/15/18 14:04	11/27/18 13:37	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 13:37	1
Hexachloroethane	ND		5.0	0.59	ug/L		11/15/18 14:04	11/27/18 13:37	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		11/15/18 14:04	11/27/18 13:37	1
Isophorone	ND		5.0	0.43	ug/L		11/15/18 14:04	11/27/18 13:37	1
Naphthalene	ND		5.0	0.76	ug/L		11/15/18 14:04	11/27/18 13:37	1
Nitrobenzene	ND		5.0	0.29	ug/L		11/15/18 14:04	11/27/18 13:37	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		11/15/18 14:04	11/27/18 13:37	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		11/15/18 14:04	11/27/18 13:37	1
Pentachlorophenol	ND		10	2.2	ug/L		11/15/18 14:04	11/27/18 13:37	1
Phenanthrene	ND		5.0	0.44	ug/L		11/15/18 14:04	11/27/18 13:37	1
Phenol	ND		5.0	0.39	ug/L		11/15/18 14:04	11/27/18 13:37	1
Pyrene	ND		5.0	0.34	ug/L		11/15/18 14:04	11/27/18 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*49*		*41 - 120*	*11/15/18 14:04*	*11/27/18 13:37*	*1*
2-Fluorobiphenyl	*75*		*48 - 120*	*11/15/18 14:04*	*11/27/18 13:37*	*1*
2-Fluorophenol	*53*		*35 - 120*	*11/15/18 14:04*	*11/27/18 13:37*	*1*
Nitrobenzene-d5	*74*		*46 - 120*	*11/15/18 14:04*	*11/27/18 13:37*	*1*
Phenol-d5	*40*		*22 - 120*	*11/15/18 14:04*	*11/27/18 13:37*	*1*
p-Terphenyl-d14	*81*		*59 - 136*	*11/15/18 14:04*	*11/27/18 13:37*	*1*

Lab Sample ID: LCS 480-445844/2-A
Matrix: Water
Analysis Batch: 447624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	33.2		ug/L		104	65 - 126
2,4,6-Trichlorophenol	32.0	32.4		ug/L		101	64 - 120
2,4-Dichlorophenol	32.0	31.7		ug/L		99	63 - 120
2,4-Dimethylphenol	32.0	32.3		ug/L		101	47 - 120
2,4-Dinitrophenol	64.0	63.1		ug/L		99	31 - 137
2,4-Dinitrotoluene	32.0	34.7		ug/L		109	69 - 120
2,6-Dinitrotoluene	32.0	33.1		ug/L		103	68 - 120
2-Chloronaphthalene	32.0	28.1		ug/L		88	58 - 120
2-Chlorophenol	32.0	28.3		ug/L		89	48 - 120
2-Methylnaphthalene	32.0	27.5		ug/L		86	59 - 120
2-Methylphenol	32.0	28.6		ug/L		89	39 - 120
2-Nitroaniline	32.0	35.7		ug/L		112	54 - 127
2-Nitrophenol	32.0	31.5		ug/L		98	52 - 125
3,3'-Dichlorobenzidine	64.0	68.4		ug/L		107	49 - 135
3-Nitroaniline	32.0	28.2		ug/L		88	51 - 120
4,6-Dinitro-2-methylphenol	64.0	73.5		ug/L		115	46 - 136
4-Bromophenyl phenyl ether	32.0	33.6		ug/L		105	65 - 120
4-Chloro-3-methylphenol	32.0	33.6		ug/L		105	61 - 123
4-Chloroaniline	32.0	23.3		ug/L		73	30 - 120

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

Lab Sample ID: LCS 480-445844/2-A
Matrix: Water
Analysis Batch: 447624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	32.0	31.9		ug/L		100	62 - 120
4-Methylphenol	32.0	28.3		ug/L		88	29 - 131
4-Nitroaniline	32.0	32.9		ug/L		103	65 - 120
4-Nitrophenol	64.0	71.1		ug/L		111	45 - 120
Acenaphthene	32.0	29.3		ug/L		92	60 - 120
Acenaphthylene	32.0	30.9		ug/L		97	63 - 120
Acetophenone	32.0	32.1		ug/L		100	45 - 120
Aniline	32.0	20.6		ug/L		64	12 - 120
Anthracene	32.0	34.4		ug/L		107	67 - 120
Atrazine	64.0	75.7		ug/L		118	71 - 130
Benzaldehyde	64.0	59.5		ug/L		93	10 - 140
Benzo(a)anthracene	32.0	34.0		ug/L		106	70 - 121
Benzo(a)pyrene	32.0	33.7		ug/L		105	60 - 123
Benzo(b)fluoranthene	32.0	35.8		ug/L		112	66 - 126
Benzo(g,h,i)perylene	32.0	34.8		ug/L		109	66 - 150
Benzo(k)fluoranthene	32.0	34.8		ug/L		109	65 - 124
Biphenyl	32.0	29.0		ug/L		90	59 - 120
bis (2-chloroisopropyl) ether	32.0	26.9		ug/L		84	21 - 136
Bis(2-chloroethoxy)methane	32.0	30.1		ug/L		94	50 - 128
Bis(2-chloroethyl)ether	32.0	26.6		ug/L		83	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	35.0		ug/L		109	63 - 139
Butyl benzyl phthalate	32.0	35.0		ug/L		109	70 - 129
Caprolactam	64.0	25.9		ug/L		41	22 - 120
Carbazole	32.0	38.9		ug/L		122	66 - 123
Chrysene	32.0	33.7		ug/L		105	69 - 120
Dibenz(a,h)anthracene	32.0	34.8		ug/L		109	65 - 135
Dibenzofuran	32.0	31.1		ug/L		97	66 - 120
Diethyl phthalate	32.0	35.4		ug/L		111	59 - 127
Dimethyl phthalate	32.0	34.8		ug/L		109	68 - 120
Di-n-butyl phthalate	32.0	36.1		ug/L		113	69 - 131
Di-n-octyl phthalate	32.0	37.3		ug/L		117	63 - 140
Fluoranthene	32.0	35.3		ug/L		110	69 - 126
Fluorene	32.0	31.3		ug/L		98	66 - 120
Hexachlorobenzene	32.0	32.5		ug/L		101	61 - 120
Hexachlorobutadiene	32.0	22.3		ug/L		70	35 - 120
Hexachlorocyclopentadiene	32.0	19.1		ug/L		60	31 - 120
Hexachloroethane	32.0	22.1		ug/L		69	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	34.5		ug/L		108	69 - 146
Isophorone	32.0	33.1		ug/L		103	55 - 120
Naphthalene	32.0	27.1		ug/L		85	57 - 120
Nitrobenzene	32.0	31.7		ug/L		99	53 - 123
N-Nitrosodi-n-propylamine	32.0	32.6		ug/L		102	32 - 140
N-Nitrosodiphenylamine	32.0	33.2		ug/L		104	61 - 120
Pentachlorophenol	64.0	55.4		ug/L		87	29 - 136
Phenanthrene	32.0	33.7		ug/L		105	68 - 120
Phenol	32.0	19.4		ug/L		61	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

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

Lab Sample ID: LCS 480-445844/2-A
Matrix: Water
Analysis Batch: 447624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445844

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*90*		*41 - 120*
2-Fluorobiphenyl	*81*		*48 - 120*
2-Fluorophenol	*62*		*35 - 120*
Nitrobenzene-d5	*84*		*46 - 120*
Phenol-d5	*51*		*22 - 120*
p-Terphenyl-d14	*90*		*59 - 136*

Lab Sample ID: 480-145165-6 MS
Matrix: Ground Water
Analysis Batch: 447624

Client Sample ID: BCC Area C RFI-20 MS_1118
Prep Type: Total/NA
Prep Batch: 445844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	31.0		ug/L		97	65 - 126
2,4,6-Trichlorophenol	ND		32.0	30.9		ug/L		97	64 - 120
2,4-Dichlorophenol	ND		32.0	29.2		ug/L		91	48 - 132
2,4-Dimethylphenol	ND		32.0	30.2		ug/L		94	39 - 130
2,4-Dinitrophenol	ND		64.0	66.4		ug/L		104	21 - 150
2,4-Dinitrotoluene	ND		32.0	34.1		ug/L		107	54 - 138
2,6-Dinitrotoluene	ND		32.0	32.3		ug/L		101	17 - 150
2-Chloronaphthalene	ND		32.0	27.0		ug/L		84	52 - 124
2-Chlorophenol	ND		32.0	26.4		ug/L		82	48 - 120
2-Methylnaphthalene	ND		32.0	26.0		ug/L		81	34 - 140
2-Methylphenol	ND		32.0	26.9		ug/L		84	46 - 120
2-Nitroaniline	ND		32.0	33.8		ug/L		106	44 - 136
2-Nitrophenol	ND		32.0	27.6		ug/L		86	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	59.2		ug/L		92	10 - 150
3-Nitroaniline	ND		32.0	26.4		ug/L		82	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	67.5		ug/L		105	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	30.8		ug/L		96	63 - 126
4-Chloro-3-methylphenol	ND		32.0	31.9		ug/L		100	64 - 127
4-Chloroaniline	ND		32.0	19.9		ug/L		62	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	30.9		ug/L		96	61 - 120
4-Methylphenol	ND		32.0	26.4		ug/L		83	36 - 120
4-Nitroaniline	ND		32.0	32.7		ug/L		102	32 - 150
4-Nitrophenol	ND		64.0	62.1		ug/L		97	23 - 132
Acenaphthene	ND		32.0	28.6		ug/L		89	48 - 120
Acenaphthylene	ND		32.0	29.6		ug/L		92	63 - 120
Acetophenone	ND		32.0	29.8		ug/L		93	53 - 120
Aniline	ND		32.0	19.4		ug/L		61	32 - 120
Anthracene	ND		32.0	32.7		ug/L		102	65 - 122
Atrazine	ND		64.0	72.7		ug/L		114	50 - 150
Benzaldehyde	ND		64.0	54.6		ug/L		85	10 - 150
Benzo(a)anthracene	ND		32.0	31.5		ug/L		98	43 - 124
Benzo(a)pyrene	ND		32.0	30.3		ug/L		95	23 - 125
Benzo(b)fluoranthene	ND		32.0	31.6		ug/L		99	27 - 127
Benzo(g,h,i)perylene	ND		32.0	31.8		ug/L		99	16 - 147
Benzo(k)fluoranthene	ND		32.0	30.7		ug/L		96	20 - 124
Biphenyl	ND		32.0	27.1		ug/L		85	57 - 120

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

Lab Sample ID: 480-145165-6 MS
Matrix: Ground Water
Analysis Batch: 447624

Client Sample ID: BCC Area C RFI-20 MS_1118
Prep Type: Total/NA
Prep Batch: 445844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	ND		32.0	26.2		ug/L		82	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	27.5		ug/L		86	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	25.5		ug/L		80	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	32.3		ug/L		101	16 - 150
Butyl benzyl phthalate	ND		32.0	33.7		ug/L		105	51 - 140
Caprolactam	ND		64.0	24.4		ug/L		38	10 - 120
Carbazole	ND		32.0	37.7		ug/L		118	16 - 148
Chrysene	ND		32.0	31.4		ug/L		98	44 - 122
Dibenz(a,h)anthracene	ND		32.0	31.5		ug/L		99	16 - 139
Dibenzofuran	ND		32.0	30.2		ug/L		94	60 - 120
Diethyl phthalate	ND		32.0	34.5		ug/L		108	53 - 133
Dimethyl phthalate	ND		32.0	33.5		ug/L		105	59 - 123
Di-n-butyl phthalate	ND		32.0	33.4		ug/L		104	65 - 129
Di-n-octyl phthalate	ND		32.0	34.0		ug/L		106	16 - 150
Fluoranthene	ND		32.0	33.3		ug/L		104	63 - 129
Fluorene	ND		32.0	30.1		ug/L		94	62 - 120
Hexachlorobenzene	ND		32.0	30.7		ug/L		96	57 - 121
Hexachlorobutadiene	ND		32.0	20.3		ug/L		63	37 - 120
Hexachlorocyclopentadiene	ND		32.0	18.9		ug/L		59	21 - 120
Hexachloroethane	ND		32.0	21.4		ug/L		67	16 - 130
Indeno(1,2,3-cd)pyrene	ND		32.0	31.5		ug/L		98	16 - 140
Isophorone	ND		32.0	30.2		ug/L		94	48 - 133
Naphthalene	ND		32.0	24.8		ug/L		77	45 - 120
Nitrobenzene	ND		32.0	28.9		ug/L		90	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	29.4		ug/L		92	49 - 120
N-Nitrosodiphenylamine	ND		32.0	31.5		ug/L		99	39 - 138
Pentachlorophenol	ND		64.0	57.4		ug/L		90	23 - 149
Phenanthrene	ND		32.0	32.2		ug/L		101	65 - 122
Phenol	ND		32.0	17.3		ug/L		54	16 - 120
Pyrene	ND		32.0	31.9		ug/L		100	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*85*		*41 - 120*
2-Fluorobiphenyl	*76*		*48 - 120*
2-Fluorophenol	*57*		*35 - 120*
Nitrobenzene-d5	*77*		*46 - 120*
Phenol-d5	*46*		*22 - 120*
p-Terphenyl-d14	*72*		*59 - 136*

Lab Sample ID: 480-145165-6 MSD
Matrix: Ground Water
Analysis Batch: 447624

Client Sample ID: BCC Area C RFI-20 MSD_1118
Prep Type: Total/NA
Prep Batch: 445844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	30.6		ug/L		96	65 - 126	1	18
2,4,6-Trichlorophenol	ND		32.0	29.0		ug/L		91	64 - 120	6	19
2,4-Dichlorophenol	ND		32.0	27.3		ug/L		85	48 - 132	7	19
2,4-Dimethylphenol	ND		32.0	28.5		ug/L		89	39 - 130	6	42

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

Lab Sample ID: 480-145165-6 MSD — **Client Sample ID: BCC Area C RFI-20 MSD_1118**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 447624 — **Prep Batch: 445844**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrophenol	ND		64.0	65.0		ug/L		102	21 - 150	2	22
2,4-Dinitrotoluene	ND		32.0	32.5		ug/L		102	54 - 138	5	20
2,6-Dinitrotoluene	ND		32.0	31.3		ug/L		98	17 - 150	3	15
2-Chloronaphthalene	ND		32.0	26.3		ug/L		82	52 - 124	3	21
2-Chlorophenol	ND		32.0	24.4		ug/L		76	48 - 120	8	25
2-Methylnaphthalene	ND		32.0	24.5		ug/L		76	34 - 140	6	21
2-Methylphenol	ND		32.0	23.5		ug/L		73	46 - 120	14	27
2-Nitroaniline	ND		32.0	32.6		ug/L		102	44 - 136	4	15
2-Nitrophenol	ND		32.0	26.3		ug/L		82	38 - 141	5	18
3,3'-Dichlorobenzidine	ND		64.0	55.8		ug/L		87	10 - 150	6	25
3-Nitroaniline	ND		32.0	25.7		ug/L		80	32 - 150	3	19
4,6-Dinitro-2-methylphenol	ND		64.0	66.2		ug/L		103	38 - 150	2	15
4-Bromophenyl phenyl ether	ND		32.0	30.5		ug/L		95	63 - 126	1	15
4-Chloro-3-methylphenol	ND		32.0	30.3		ug/L		95	64 - 127	5	27
4-Chloroaniline	ND		32.0	21.1		ug/L		66	16 - 124	6	22
4-Chlorophenyl phenyl ether	ND		32.0	29.8		ug/L		93	61 - 120	3	16
4-Methylphenol	ND		32.0	24.2		ug/L		76	36 - 120	9	24
4-Nitroaniline	ND		32.0	32.1		ug/L		100	32 - 150	2	24
4-Nitrophenol	ND		64.0	64.6		ug/L		101	23 - 132	4	48
Acenaphthene	ND		32.0	27.3		ug/L		85	48 - 120	5	24
Acenaphthylene	ND		32.0	28.2		ug/L		88	63 - 120	5	18
Acetophenone	ND		32.0	27.5		ug/L		86	53 - 120	8	20
Aniline	ND		32.0	20.6		ug/L		64	32 - 120	6	30
Anthracene	ND		32.0	31.2		ug/L		97	65 - 122	5	15
Atrazine	ND		64.0	70.6		ug/L		110	50 - 150	3	20
Benzaldehyde	ND		64.0	50.7		ug/L		79	10 - 150	7	20
Benzo(a)anthracene	ND		32.0	29.8		ug/L		93	43 - 124	6	15
Benzo(a)pyrene	ND		32.0	29.3		ug/L		92	23 - 125	3	15
Benzo(b)fluoranthene	ND		32.0	29.7		ug/L		93	27 - 127	6	15
Benzo(g,h,i)perylene	ND		32.0	29.6		ug/L		92	16 - 147	7	15
Benzo(k)fluoranthene	ND		32.0	29.4		ug/L		92	20 - 124	4	22
Biphenyl	ND		32.0	26.0		ug/L		81	57 - 120	4	20
bis (2-chloroisopropyl) ether	ND		32.0	24.2		ug/L		76	28 - 121	8	24
Bis(2-chloroethoxy)methane	ND		32.0	25.7		ug/L		80	44 - 128	6	17
Bis(2-chloroethyl)ether	ND		32.0	23.4		ug/L		73	45 - 120	8	21
Bis(2-ethylhexyl) phthalate	ND		32.0	29.8		ug/L		93	16 - 150	8	15
Butyl benzyl phthalate	ND		32.0	31.6		ug/L		99	51 - 140	6	16
Caprolactam	ND		64.0	23.4		ug/L		37	10 - 120	4	20
Carbazole	ND		32.0	37.1		ug/L		116	16 - 148	2	20
Chrysene	ND		32.0	29.3		ug/L		92	44 - 122	7	15
Dibenz(a,h)anthracene	ND		32.0	29.7		ug/L		93	16 - 139	6	15
Dibenzofuran	ND		32.0	29.0		ug/L		91	60 - 120	4	15
Diethyl phthalate	ND		32.0	33.7		ug/L		105	53 - 133	2	15
Dimethyl phthalate	ND		32.0	32.1		ug/L		100	59 - 123	4	15
Di-n-butyl phthalate	ND		32.0	32.5		ug/L		102	65 - 129	3	15
Di-n-octyl phthalate	ND		32.0	31.2		ug/L		98	16 - 150	8	16
Fluoranthene	ND		32.0	32.3		ug/L		101	63 - 129	3	15
Fluorene	ND		32.0	29.6		ug/L		92	62 - 120	2	15

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

Lab Sample ID: 480-145165-6 MSD
Matrix: Ground Water
Analysis Batch: 447624

Client Sample ID: BCC Area C RFI-20 MSD_1118
Prep Type: Total/NA
Prep Batch: 445844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	ND		32.0	29.4		ug/L		92	57 - 121	4	15
Hexachlorobutadiene	ND		32.0	18.8		ug/L		59	37 - 120	7	44
Hexachlorocyclopentadiene	ND		32.0	17.9		ug/L		56	21 - 120	6	49
Hexachloroethane	ND		32.0	19.5		ug/L		61	16 - 130	9	46
Indeno(1,2,3-cd)pyrene	ND		32.0	29.9		ug/L		93	16 - 140	5	15
Isophorone	ND		32.0	29.0		ug/L		91	48 - 133	4	17
Naphthalene	ND		32.0	23.2		ug/L		72	45 - 120	7	29
Nitrobenzene	ND		32.0	26.9		ug/L		84	45 - 123	7	24
N-Nitrosodi-n-propylamine	ND		32.0	28.0		ug/L		87	49 - 120	5	31
N-Nitrosodiphenylamine	ND		32.0	29.8		ug/L		93	39 - 138	6	15
Pentachlorophenol	ND		64.0	55.0		ug/L		86	23 - 149	4	37
Phenanthrene	ND		32.0	30.9		ug/L		97	65 - 122	4	15
Phenol	ND		32.0	16.0		ug/L		50	16 - 120	8	34
Pyrene	ND		32.0	30.8		ug/L		96	58 - 128	3	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*81*		*41 - 120*
2-Fluorobiphenyl	*73*		*48 - 120*
2-Fluorophenol	*51*		*35 - 120*
Nitrobenzene-d5	*71*		*46 - 120*
Phenol-d5	*43*		*22 - 120*
p-Terphenyl-d14	*64*		*59 - 136*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-446347/1-A
Matrix: Water
Analysis Batch: 446813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		11/19/18 09:30	11/20/18 21:38	1
Antimony	ND		0.020	0.0068	mg/L		11/19/18 09:30	11/20/18 21:38	1
Arsenic	ND		0.015	0.0056	mg/L		11/19/18 09:30	11/20/18 21:38	1
Barium	ND		0.0020	0.00070	mg/L		11/19/18 09:30	11/20/18 21:38	1
Beryllium	ND		0.0020	0.00030	mg/L		11/19/18 09:30	11/20/18 21:38	1
Cadmium	ND		0.0020	0.00050	mg/L		11/19/18 09:30	11/20/18 21:38	1
Calcium	ND		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 21:38	1
Chromium	ND		0.0040	0.0010	mg/L		11/19/18 09:30	11/20/18 21:38	1
Cobalt	ND		0.0040	0.00063	mg/L		11/19/18 09:30	11/20/18 21:38	1
Copper	ND		0.010	0.0016	mg/L		11/19/18 09:30	11/20/18 21:38	1
Iron	0.0210	J	0.050	0.019	mg/L		11/19/18 09:30	11/20/18 21:38	1
Lead	ND		0.010	0.0030	mg/L		11/19/18 09:30	11/20/18 21:38	1
Magnesium	ND		0.20	0.043	mg/L		11/19/18 09:30	11/20/18 21:38	1
Manganese	0.000820	J	0.0030	0.00040	mg/L		11/19/18 09:30	11/20/18 21:38	1
Nickel	ND		0.010	0.0013	mg/L		11/19/18 09:30	11/20/18 21:38	1
Potassium	ND		0.50	0.10	mg/L		11/19/18 09:30	11/20/18 21:38	1
Selenium	ND		0.025	0.0087	mg/L		11/19/18 09:30	11/20/18 21:38	1
Silver	ND		0.0060	0.0017	mg/L		11/19/18 09:30	11/20/18 21:38	1

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

Lab Sample ID: MB 480-446347/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446813 — **Prep Batch: 446347**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		11/19/18 09:30	11/20/18 21:38	1
Thallium	ND		0.020	0.010	mg/L		11/19/18 09:30	11/20/18 21:38	1
Vanadium	ND		0.0050	0.0015	mg/L		11/19/18 09:30	11/20/18 21:38	1
Zinc	ND		0.010	0.0015	mg/L		11/19/18 09:30	11/20/18 21:38	1

Lab Sample ID: LCS 480-446347/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446813 — **Prep Batch: 446347**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.77		mg/L		98	80 - 120
Antimony	0.200	0.196		mg/L		98	80 - 120
Arsenic	0.200	0.203		mg/L		101	80 - 120
Barium	0.200	0.192		mg/L		96	80 - 120
Beryllium	0.200	0.202		mg/L		101	80 - 120
Cadmium	0.200	0.203		mg/L		102	80 - 120
Calcium	10.0	9.96		mg/L		100	80 - 120
Chromium	0.200	0.207		mg/L		104	80 - 120
Cobalt	0.200	0.195		mg/L		98	80 - 120
Copper	0.200	0.191		mg/L		95	80 - 120
Iron	10.0	10.22		mg/L		102	80 - 120
Lead	0.200	0.197		mg/L		99	80 - 120
Magnesium	10.0	9.75		mg/L		97	80 - 120
Manganese	0.200	0.199		mg/L		100	80 - 120
Nickel	0.200	0.203		mg/L		102	80 - 120
Potassium	10.0	9.91		mg/L		99	80 - 120
Selenium	0.200	0.204		mg/L		102	80 - 120
Silver	0.0500	0.0504		mg/L		101	80 - 120
Sodium	10.0	9.37		mg/L		94	80 - 120
Thallium	0.200	0.202		mg/L		101	80 - 120
Vanadium	0.200	0.202		mg/L		101	80 - 120
Zinc	0.200	0.214		mg/L		107	80 - 120

Lab Sample ID: 480-145165-6 MS — **Client Sample ID: BCC Area C RFI-20 MS_1118**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 446813 — **Prep Batch: 446347**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.077	J	10.0	10.00		mg/L		99	75 - 125
Antimony	ND		0.200	0.197		mg/L		99	75 - 125
Arsenic	ND		0.200	0.209		mg/L		104	75 - 125
Barium	0.067		0.200	0.269		mg/L		101	75 - 125
Beryllium	ND		0.200	0.200		mg/L		100	75 - 125
Cadmium	ND		0.200	0.207		mg/L		103	75 - 125
Calcium	236		10.0	253.9	4	mg/L		180	75 - 125
Chromium	ND		0.200	0.198		mg/L		99	75 - 125
Cobalt	ND		0.200	0.193		mg/L		97	75 - 125
Copper	ND		0.200	0.201		mg/L		101	75 - 125
Iron	5.9	B	10.0	15.91		mg/L		100	75 - 125

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

Lab Sample ID: 480-145165-6 MS — **Client Sample ID: BCC Area C RFI-20 MS_1118**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 446813 — **Prep Batch: 446347**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		0.200	0.199		mg/L		100	75 - 125
Magnesium	22.3		10.0	33.12		mg/L		108	75 - 125
Manganese	0.36	B	0.200	0.565		mg/L		105	75 - 125
Nickel	0.0035	J	0.200	0.203		mg/L		100	75 - 125
Potassium	8.9		10.0	19.44		mg/L		105	75 - 125
Selenium	ND		0.200	0.210		mg/L		105	75 - 125
Silver	ND		0.0500	0.0507		mg/L		101	75 - 125
Sodium	28.3		10.0	38.89		mg/L		106	75 - 125
Thallium	ND		0.200	0.205		mg/L		102	75 - 125
Vanadium	ND		0.200	0.200		mg/L		100	75 - 125
Zinc	0.0092	J	0.200	0.207		mg/L		99	75 - 125

Lab Sample ID: 480-145165-6 MSD — **Client Sample ID: BCC Area C RFI-20 MSD_1118**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 446813 — **Prep Batch: 446347**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.077	J	10.0	9.82		mg/L		97	75 - 125	2	20
Antimony	ND		0.200	0.191		mg/L		96	75 - 125	3	20
Arsenic	ND		0.200	0.203		mg/L		101	75 - 125	3	20
Barium	0.067		0.200	0.263		mg/L		98	75 - 125	2	20
Beryllium	ND		0.200	0.196		mg/L		98	75 - 125	2	20
Cadmium	ND		0.200	0.203		mg/L		101	75 - 125	2	20
Calcium	236		10.0	247.4	4	mg/L		115	75 - 125	3	20
Chromium	ND		0.200	0.196		mg/L		98	75 - 125	1	20
Cobalt	ND		0.200	0.190		mg/L		95	75 - 125	2	20
Copper	ND		0.200	0.199		mg/L		100	75 - 125	1	20
Iron	5.9	B	10.0	15.46		mg/L		95	75 - 125	3	20
Lead	ND		0.200	0.197		mg/L		99	75 - 125	1	20
Magnesium	22.3		10.0	32.47		mg/L		102	75 - 125	2	20
Manganese	0.36	B	0.200	0.556		mg/L		100	75 - 125	2	20
Nickel	0.0035	J	0.200	0.198		mg/L		97	75 - 125	2	20
Potassium	8.9		10.0	19.02		mg/L		101	75 - 125	2	20
Selenium	ND		0.200	0.207		mg/L		103	75 - 125	1	20
Silver	ND		0.0500	0.0507		mg/L		101	75 - 125	0	20
Sodium	28.3		10.0	37.48		mg/L		92	75 - 125	4	20
Thallium	ND		0.200	0.201		mg/L		100	75 - 125	2	20
Vanadium	ND		0.200	0.197		mg/L		98	75 - 125	1	20
Zinc	0.0092	J	0.200	0.207		mg/L		99	75 - 125	0	20

Lab Sample ID: MB 480-446800/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 447060 — **Prep Batch: 446800**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		11/21/18 09:48	11/21/18 16:27	1
Antimony	ND		0.020	0.0068	mg/L		11/21/18 09:48	11/21/18 16:27	1
Arsenic	ND		0.015	0.0056	mg/L		11/21/18 09:48	11/21/18 16:27	1
Barium	ND		0.0020	0.00070	mg/L		11/21/18 09:48	11/21/18 16:27	1

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

Lab Sample ID: MB 480-446800/1-A
Matrix: Water
Analysis Batch: 447060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020	0.00030	mg/L		11/21/18 09:48	11/21/18 16:27	1
Cadmium	ND		0.0020	0.00050	mg/L		11/21/18 09:48	11/21/18 16:27	1
Calcium	ND		0.50	0.10	mg/L		11/21/18 09:48	11/21/18 16:27	1
Chromium	ND		0.0040	0.0010	mg/L		11/21/18 09:48	11/21/18 16:27	1
Cobalt	ND		0.0040	0.00063	mg/L		11/21/18 09:48	11/21/18 16:27	1
Copper	ND		0.010	0.0016	mg/L		11/21/18 09:48	11/21/18 16:27	1
Iron	ND		0.050	0.019	mg/L		11/21/18 09:48	11/21/18 16:27	1
Lead	ND		0.010	0.0030	mg/L		11/21/18 09:48	11/21/18 16:27	1
Magnesium	ND		0.20	0.043	mg/L		11/21/18 09:48	11/21/18 16:27	1
Manganese	ND		0.0030	0.00040	mg/L		11/21/18 09:48	11/21/18 16:27	1
Nickel	ND		0.010	0.0013	mg/L		11/21/18 09:48	11/21/18 16:27	1
Potassium	ND		0.50	0.10	mg/L		11/21/18 09:48	11/21/18 16:27	1
Selenium	ND		0.025	0.0087	mg/L		11/21/18 09:48	11/21/18 16:27	1
Silver	ND		0.0060	0.0017	mg/L		11/21/18 09:48	11/21/18 16:27	1
Sodium	ND		1.0	0.32	mg/L		11/21/18 09:48	11/21/18 16:27	1
Thallium	ND		0.020	0.010	mg/L		11/21/18 09:48	11/21/18 16:27	1
Vanadium	ND		0.0050	0.0015	mg/L		11/21/18 09:48	11/21/18 16:27	1
Zinc	ND		0.010	0.0015	mg/L		11/21/18 09:48	11/21/18 16:27	1

Lab Sample ID: LCS 480-446800/2-A
Matrix: Water
Analysis Batch: 447060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 446800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.70		mg/L		97	80 - 120
Antimony	0.200	0.186		mg/L		93	80 - 120
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.200	0.186		mg/L		93	80 - 120
Beryllium	0.200	0.194		mg/L		97	80 - 120
Cadmium	0.200	0.198		mg/L		99	80 - 120
Calcium	10.0	9.91		mg/L		99	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.200	0.191		mg/L		96	80 - 120
Copper	0.200	0.186		mg/L		93	80 - 120
Iron	10.0	10.06		mg/L		101	80 - 120
Lead	0.200	0.194		mg/L		97	80 - 120
Magnesium	10.0	9.49		mg/L		95	80 - 120
Manganese	0.200	0.190		mg/L		95	80 - 120
Nickel	0.200	0.196		mg/L		98	80 - 120
Potassium	10.0	9.83		mg/L		98	80 - 120
Selenium	0.200	0.201		mg/L		101	80 - 120
Silver	0.0500	0.0491		mg/L		98	80 - 120
Sodium	10.0	8.98		mg/L		90	80 - 120
Thallium	0.200	0.203		mg/L		102	80 - 120
Vanadium	0.200	0.203		mg/L		101	80 - 120
Zinc	0.200	0.218		mg/L		109	80 - 120

QC Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-446403/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446751 — **Prep Batch: 446403**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		11/20/18 11:05	11/20/18 13:30	1

Lab Sample ID: LCS 480-446403/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 446751 — **Prep Batch: 446403**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00687		mg/L		103	80 - 120

Lab Sample ID: 480-145165-6 MS — **Client Sample ID: BCC Area C RFI-20 MS_1118**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 446751 — **Prep Batch: 446403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00675		mg/L		101	80 - 120

Lab Sample ID: 480-145165-6 MSD — **Client Sample ID: BCC Area C RFI-20 MSD_1118**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 446751 — **Prep Batch: 446403**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00678		mg/L		102	80 - 120	0	20

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

GC/MS VOA

Analysis Batch: 446526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	8260C	
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	8260C	
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	8260C	
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	8260C	
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	8260C	
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	8260C	
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	8260C	
480-145165-8	TRIP BLANK	Total/NA	Water	8260C	
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	8260C	
MB 480-446526/7	Method Blank	Total/NA	Water	8260C	
LCS 480-446526/5	Lab Control Sample	Total/NA	Water	8260C	
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	8260C	
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 445844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	3510C	
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	3510C	
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	3510C	
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	3510C	
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	3510C	
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	3510C	
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	3510C	
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	3510C	
MB 480-445844/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-445844/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	3510C	
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	3510C	

Analysis Batch: 447624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	8270D	445844
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	8270D	445844
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	8270D	445844
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	8270D	445844
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	8270D	445844
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	8270D	445844
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	8270D	445844
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	8270D	445844
MB 480-445844/1-A	Method Blank	Total/NA	Water	8270D	445844
LCS 480-445844/2-A	Lab Control Sample	Total/NA	Water	8270D	445844
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	8270D	445844
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	8270D	445844

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Metals

Prep Batch: 446347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	3005A	
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	3005A	
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	3005A	
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	3005A	
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	3005A	
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	3005A	
MB 480-446347/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-446347/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	3005A	
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	3005A	

Prep Batch: 446403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	7470A	
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	7470A	
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	7470A	
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	7470A	
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	7470A	
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	7470A	
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	7470A	
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	7470A	
MB 480-446403/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-446403/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	7470A	
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	7470A	

Analysis Batch: 446751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	7470A	446403
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	7470A	446403
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	7470A	446403
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	7470A	446403
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	7470A	446403
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	7470A	446403
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	7470A	446403
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	7470A	446403
MB 480-446403/1-A	Method Blank	Total/NA	Water	7470A	446403
LCS 480-446403/2-A	Lab Control Sample	Total/NA	Water	7470A	446403
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	7470A	446403
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	7470A	446403

Prep Batch: 446800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	3005A	
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	3005A	
MB 480-446800/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-446800/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 446813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	6010C	446347

Metals (Continued)

Analysis Batch: 446813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-2	BCC Area C MW-C04_1118	Total/NA	Ground Water	6010C	446347
480-145165-3	BCC Area C PS-04_1118	Total/NA	Ground Water	6010C	446347
480-145165-4	BCC Area C PS-05A_1118	Total/NA	Ground Water	6010C	446347
480-145165-5	BCC Area C PS-06_1118	Total/NA	Ground Water	6010C	446347
480-145165-6	BCC Area C RFI-20_1118	Total/NA	Ground Water	6010C	446347
MB 480-446347/1-A	Method Blank	Total/NA	Water	6010C	446347
LCS 480-446347/2-A	Lab Control Sample	Total/NA	Water	6010C	446347
480-145165-6 MS	BCC Area C RFI-20 MS_1118	Total/NA	Ground Water	6010C	446347
480-145165-6 MSD	BCC Area C RFI-20 MSD_1118	Total/NA	Ground Water	6010C	446347

Analysis Batch: 446895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-1	BCC Area C MW-C01_1118	Total/NA	Ground Water	6010C	446347

Analysis Batch: 447060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	6010C	446800
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	6010C	446800
MB 480-446800/1-A	Method Blank	Total/NA	Water	6010C	446800
LCS 480-446800/2-A	Lab Control Sample	Total/NA	Water	6010C	446800

Analysis Batch: 447186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	6010C	446800
480-145165-9	BCC Area C RFI-20 D_1118	Total/NA	Water	6010C	446800

Analysis Batch: 447846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145165-7	BCC Area C RFI-31_1118	Total/NA	Ground Water	6010C	446800

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C MW-C01_1118

Lab Sample ID: 480-145165-1
Date Collected: 11/13/18 15:15
Matrix: Ground Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	446526	11/20/18 01:12	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		5	447624	11/27/18 19:34	RJS	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		1	446813	11/20/18 22:00	EMB	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		5	446895	11/21/18 10:43	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:33	BMB	TAL BUF

Client Sample ID: BCC Area C MW-C04_1118

Lab Sample ID: 480-145165-2
Date Collected: 11/13/18 09:00
Matrix: Ground Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	446526	11/20/18 01:39	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		1	447624	11/27/18 20:04	RJS	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		1	446813	11/20/18 22:03	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:35	BMB	TAL BUF

Client Sample ID: BCC Area C PS-04_1118

Lab Sample ID: 480-145165-3
Date Collected: 11/13/18 09:40
Matrix: Ground Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446526	11/20/18 02:06	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		1	447624	11/27/18 20:34	RJS	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		1	446813	11/20/18 22:07	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:36	BMB	TAL BUF

Client Sample ID: BCC Area C PS-05A_1118

Lab Sample ID: 480-145165-4
Date Collected: 11/13/18 12:25
Matrix: Ground Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	446526	11/20/18 02:33	AMM	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C PS-05A_1118 — Lab Sample ID: 480-145165-4

Date Collected: 11/13/18 12:25 — **Matrix: Ground Water**
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		5	447624	11/27/18 21:03	RJS	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		1	446813	11/20/18 22:11	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:37	BMB	TAL BUF

Client Sample ID: BCC Area C PS-06_1118 — Lab Sample ID: 480-145165-5

Date Collected: 11/13/18 13:15 — **Matrix: Ground Water**
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	446526	11/20/18 03:00	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		5	447624	11/27/18 21:33	RJS	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		1	446813	11/20/18 22:14	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:39	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-20_1118 — Lab Sample ID: 480-145165-6

Date Collected: 11/13/18 10:20 — **Matrix: Ground Water**
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446526	11/20/18 03:26	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		1	447624	11/27/18 17:06	RJS	TAL BUF
Total/NA	Prep	3005A			446347	11/19/18 09:30	VEG	TAL BUF
Total/NA	Analysis	6010C		1	446813	11/20/18 22:18	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:40	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-31_1118 — Lab Sample ID: 480-145165-7

Date Collected: 11/13/18 14:30 — **Matrix: Ground Water**
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	446526	11/20/18 03:53	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		5	447624	11/27/18 22:03	RJS	TAL BUF
Total/NA	Prep	3005A			446800	11/21/18 09:48	JMP	TAL BUF
Total/NA	Analysis	6010C		1	447186	11/23/18 14:52	EMB	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Client Sample ID: BCC Area C RFI-31_1118

Lab Sample ID: 480-145165-7
Date Collected: 11/13/18 14:30
Matrix: Ground Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			446800	11/21/18 09:48	JMP	TAL BUF
Total/NA	Analysis	6010C		10	447846	11/28/18 10:31	LMH	TAL BUF
Total/NA	Prep	3005A			446800	11/21/18 09:48	JMP	TAL BUF
Total/NA	Analysis	6010C		1	447060	11/21/18 17:47	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:48	BMB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-145165-8
Date Collected: 11/13/18 00:00
Matrix: Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446526	11/20/18 04:20	AMM	TAL BUF

Client Sample ID: BCC Area C RFI-20 D_1118

Lab Sample ID: 480-145165-9
Date Collected: 11/13/18 10:30
Matrix: Water
Date Received: 11/13/18 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446526	11/20/18 04:47	AMM	TAL BUF
Total/NA	Prep	3510C			445844	11/15/18 14:04	ATG	TAL BUF
Total/NA	Analysis	8270D		1	447624	11/27/18 22:32	RJS	TAL BUF
Total/NA	Prep	3005A			446800	11/21/18 09:48	JMP	TAL BUF
Total/NA	Analysis	6010C		1	447186	11/23/18 14:56	EMB	TAL BUF
Total/NA	Prep	3005A			446800	11/21/18 09:48	JMP	TAL BUF
Total/NA	Analysis	6010C		1	447060	11/21/18 17:51	EMB	TAL BUF
Total/NA	Prep	7470A			446403	11/20/18 11:05	BMB	TAL BUF
Total/NA	Analysis	7470A		1	446751	11/20/18 13:49	BMB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

TestAmerica Job ID: 480-145165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-145165-1	BCC Area C MW-C01_1118	Ground Water	11/13/18 15:15	11/13/18 15:40
480-145165-2	BCC Area C MW-C04_1118	Ground Water	11/13/18 09:00	11/13/18 15:40
480-145165-3	BCC Area C PS-04_1118	Ground Water	11/13/18 09:40	11/13/18 15:40
480-145165-4	BCC Area C PS-05A_1118	Ground Water	11/13/18 12:25	11/13/18 15:40
480-145165-5	BCC Area C PS-06_1118	Ground Water	11/13/18 13:15	11/13/18 15:40
480-145165-6	BCC Area C RFI-20_1118	Ground Water	11/13/18 10:20	11/13/18 15:40
480-145165-7	BCC Area C RFI-31_1118	Ground Water	11/13/18 14:30	11/13/18 15:40
480-145165-8	TRIP BLANK	Water	11/13/18 00:00	11/13/18 15:40
480-145165-9	BCC Area C RFI-20 D_1118	Water	11/13/18 10:30	11/13/18 15:40

10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Schove	Site Contact: Tom Wagner	Date: 11-13-18	COC No: 293403.1118
Ontario Specialty Contracting Inc	Tel/Fax: 716-912-9926	Lab Contact: John Schove	Carrier: OSC	1 of 1 COCs
333 Ganson Street	Analysis Turnaround Time			Job No. 16011 165
Buffalo, NY 14203	Calendar (C) or Work Days (W) _____			
(716) 856-3333 Phone	TAT if different from Below _____			
(716) 842-1785 FAX	[x] 2 weeks			SDG No.
Project Name: Buffalo Color GWTF Area C Wells	[ ] 1 week			
Site: Honeywell Buffalo Color - NYC915230 EIM SITE ID - 37745	[ ] 2 days			
P O #	[ ] 1 day			

480-145165 COC

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B - TLC 4.2 list (TLC VOC)	6010B, 7470A (TAL Metals	8270C - (MOD) TLC SVOA - 4.2 list +analine	Sample Specific Notes:
BCC_Area C_MW-C01_1118	11/13-18	1515	G	W	6	N	3	1	2	
BCC_Area C_RFI-31_1118		1430	G	W	6	N	3	1	2	
BCC_Area C_PS-04_1118		0940	G	W	6	N	3	1	2	
BCC_Area C_MW-C04_1118		0900	G	W	6	N	3	1	2	
BCC_Area C_RFI-20_1118		1020	G	W	6	N	3	1	2	
BCC_Area C_PS-05A_1118		1225	G	W	6	N	3	1	2	
BCC_Area C_PS-06_1118		1315	G	W	6	N	3	1	2	
BCC_Area C_RFI-20 D_1118		1030	G	W	6	N	3	1	2	
BCC_Area C_RFI-20 MS_1118		1045	G	W	6	N	3	1	2	
BCC_Area C_RFI-20 MSD_1118		1055	G	W	6	N	3	1	2	
Trip Blank	N/A	N/A	N/A	W	2	N	2			
							Container Volume (mL)	40	250	250
								2	4	1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [X]

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

Special Instructions/QC Requirements & Comments:

H1 3.7°C, 4.1°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Wagner	OSC	11-13-18 1540	[illegible]	TAB	11/13/18 1540
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-145165-1

Login Number: 145165
List Number: 1
Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OSC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-150568-1
Client Project/Site: Buffalo Color Area C Wells
Sampling Event: Buffalo Color Area C Wells
Revision: 1

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Kirsten Colligan

Authorized for release by:
4/18/2019 9:31:22 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-150568-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-150568-1

Revision
This report has been revised to correct the sample dates and the client ID's..

Receipt
The samples were received on 3/20/2019 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9º C, 3.7º C and 4.5º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-463939 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C RFI-31_0320 (480-150568-10), (480-150568-D-10 MS) and (480-150568-D-10 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-CO1_0320 (480-150568-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: BCC Area C PS-05A_0320 (480-150568-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-C01 D_0320 (480-150568-4), BCC Area C MW-C04_0320 (480-150568-5), (480-150568-D-5 MS) and (480-150568-D-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-CO1 MS_0320 (480-150568-1[MS]) and BCC Area C MW-CO1 MSD_0320 (480-150568-1[MSD]). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-464251 recovered outside acceptance criteria, low biased, for 2,4-Dinitrophenol and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: BCC Area C RFI-31_0320 (480-150568-10). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-464520 recovered above the upper control limit for Bis(2-chloroethyl)ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BCC Area C MW-C01 D_0320 (480-150568-4), BCC Area C MW-C04_0320 (480-150568-5), BCC Area C PS-04_0320 (480-150568-6), BCC Area C PS-05A_0320 (480-150568-7), BCC Area C PS-06_0320 (480-150568-8), BCC Area C RFI-20_0320 (480-150568-9) and BCC Area C RFI-31_0320 (480-150568-10).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-464520 recovered outside acceptance criteria, low biased, for Aniline, 3-Nitroaniline, 4-Chloroaniline and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-464647 and analytical batch 480-464933 recovered

Job ID: 480-150568-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

outside control limits for the following analytes: 3-Nitroaniline and 4-Nitroaniline. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-464933 recovered above the upper control limit for 3-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: BCC Area C MW-CO1_0320 (480-150568-1).

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-464647 and analytical batch 480-464933 was outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3-Nitroaniline and 4-Nitroaniline.

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

Metals
Method(s) 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples: BCC Area C MW-CO1_0320 (480-150568-1) and BCC Area C MW-C01 D_0320 (480-150568-4). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The samples were prepared and analyzed at a 1:3 dilution, which maintained the purple color during digestion.

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

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-464095.

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

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-CO1_0320 — Lab Sample ID: 480-150568-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	0.55	J	5.0	0.36	ug/L	1		8270D	Total/NA
Benzo(a)pyrene	0.72	J	5.0	0.47	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	0.83	J	5.0	0.34	ug/L	1		8270D	Total/NA
Benzo(g,h,i)perylene	0.53	J	5.0	0.35	ug/L	1		8270D	Total/NA
Chrysene	0.59	J	5.0	0.33	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.50	J B	5.0	0.31	ug/L	1		8270D	Total/NA
Fluoranthene	1.3	J	5.0	0.40	ug/L	1		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	0.50	J	5.0	0.47	ug/L	1		8270D	Total/NA
Phenanthrene	0.76	J	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	1.1	J	5.0	0.34	ug/L	1		8270D	Total/NA
Aluminum	6.1		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.015		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.56	F1	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0013	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	757		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.018		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0087		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.040		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	12.9		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.061		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	294		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.6		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.015		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	43.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	9560		20.0	6.5	mg/L	20		6010C	Total/NA
Vanadium	0.012		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.23	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.0016		0.00060	0.00036	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C MW-C01 D_0320 — Lab Sample ID: 480-150568-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	1.7	J	2.0	1.6	ug/L	2		8260C	Total/NA
Benzo(a)anthracene	1.1	J	5.0	0.36	ug/L	1		8270D	Total/NA
Benzo(a)pyrene	1.3	J	5.0	0.47	ug/L	1		8270D	Total/NA
Benzo(b)fluoranthene	1.6	J	5.0	0.34	ug/L	1		8270D	Total/NA
Benzo(g,h,i)perylene	0.95	J	5.0	0.35	ug/L	1		8270D	Total/NA
Benzo(k)fluoranthene	0.77	J	5.0	0.73	ug/L	1		8270D	Total/NA
Chrysene	1.2	J	5.0	0.33	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.47	J	5.0	0.31	ug/L	1		8270D	Total/NA
Fluoranthene	2.4	J	5.0	0.40	ug/L	1		8270D	Total/NA
Indeno(1,2,3-cd)pyrene	0.81	J	5.0	0.47	ug/L	1		8270D	Total/NA
Phenanthrene	1.4	J	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	2.1	J	5.0	0.34	ug/L	1		8270D	Total/NA
Aluminum	3.8		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.0089	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.61		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0014	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	805		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.017		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0095		0.0040	0.00063	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C01 D_0320 (Continued) — Lab Sample ID: 480-150568-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.043		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	12.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.066		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	303		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.7	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.017		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	49.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	10200		20.0	6.5	mg/L	20		6010C	Total/NA
Vanadium	0.0097		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.24		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.0012		0.00060	0.00036	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C MW-C04_0320 — Lab Sample ID: 480-150568-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	25		10	7.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	49		10	8.4	ug/L	10		8260C	Total/NA
Chlorobenzene	330	F1	10	7.5	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	0.54	J	5.0	0.51	ug/L	1		8270D	Total/NA
2-Chlorophenol	1.1	J	5.0	0.53	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.47	J	5.0	0.31	ug/L	1		8270D	Total/NA
N-Nitrosodiphenylamine	0.91	J	5.0	0.51	ug/L	1		8270D	Total/NA
Barium	0.43		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	194		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0027	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	7.8		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	26.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.91	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	26.5		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0059	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-04_0320 — Lab Sample ID: 480-150568-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.47	J	5.0	0.31	ug/L	1		8270D	Total/NA
Barium	0.030		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0070		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	186		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0036	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.043		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.087		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	25.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0087	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.053		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	20.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.43		0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-05A_0320 — Lab Sample ID: 480-150568-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	130		5.0	3.8	ug/L	5		8260C	Total/NA
2-Chlorophenol	1.1	J	5.0	0.53	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.45	J	5.0	0.31	ug/L	1		8270D	Total/NA
Aluminum	0.31		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.032		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.014		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	196		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0017	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	8.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	21.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.21	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0014	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	10.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	99.6		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.056		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-06_0320 — Lab Sample ID: 480-150568-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.38	ug/L	1		8260C	Total/NA
Di-n-butyl phthalate	0.42	J	5.0	0.31	ug/L	1		8270D	Total/NA
Aluminum	0.064	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.064		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.0086		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	212		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	33.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	9.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.16	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	43.7		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	37.8		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0038	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-20_0320 — Lab Sample ID: 480-150568-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	5.9		1.0	0.75	ug/L	1		8260C	Total/NA
Di-n-butyl phthalate	0.46	J	5.0	0.31	ug/L	1		8270D	Total/NA
Barium	0.041		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	119		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	8.2		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	13.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.31	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0015	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	4.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	20.4		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0017	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0081	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-31_0320 — Lab Sample ID: 480-150568-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	22		10	4.1	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-31_0320 (Continued) — Lab Sample ID: 480-150568-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dichlorophenol	0.58	J	5.0	0.51	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.32	J	5.0	0.31	ug/L	1		8270D	Total/NA
Barium	0.020		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	424		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0029	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0019	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.67		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	150		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.5	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0043	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	14.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2330		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.0065	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00012	J	0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-150568-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-CO1_0320

Lab Sample ID: 480-150568-1

Date Collected: 03/20/19 09:40
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/21/19 06:10	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/21/19 06:10	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			03/21/19 06:10	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/21/19 06:10	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			03/21/19 06:10	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/21/19 06:10	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/21/19 06:10	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/21/19 06:10	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/21/19 06:10	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/21/19 06:10	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/21/19 06:10	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/21/19 06:10	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/21/19 06:10	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/21/19 06:10	4
2-Butanone (MEK)	ND		40	5.3	ug/L			03/21/19 06:10	4
2-Hexanone	ND		20	5.0	ug/L			03/21/19 06:10	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			03/21/19 06:10	4
Acetone	ND		40	12	ug/L			03/21/19 06:10	4
Benzene	ND		4.0	1.6	ug/L			03/21/19 06:10	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/21/19 06:10	4
Bromoform	ND		4.0	1.0	ug/L			03/21/19 06:10	4
Bromomethane	ND		4.0	2.8	ug/L			03/21/19 06:10	4
Carbon disulfide	ND		4.0	0.76	ug/L			03/21/19 06:10	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/21/19 06:10	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/21/19 06:10	4
Chloroethane	ND		4.0	1.3	ug/L			03/21/19 06:10	4
Chloroform	ND		4.0	1.4	ug/L			03/21/19 06:10	4
Chloromethane	ND		4.0	1.4	ug/L			03/21/19 06:10	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			03/21/19 06:10	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/21/19 06:10	4
Cyclohexane	ND		4.0	0.72	ug/L			03/21/19 06:10	4
Dibromochloromethane	ND		4.0	1.3	ug/L			03/21/19 06:10	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/21/19 06:10	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/21/19 06:10	4
Isopropylbenzene	ND		4.0	3.2	ug/L			03/21/19 06:10	4
Methyl acetate	ND		10	5.2	ug/L			03/21/19 06:10	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			03/21/19 06:10	4
Methylcyclohexane	ND		4.0	0.64	ug/L			03/21/19 06:10	4
Methylene Chloride	ND		4.0	1.8	ug/L			03/21/19 06:10	4
Styrene	ND		4.0	2.9	ug/L			03/21/19 06:10	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/21/19 06:10	4
Toluene	ND		4.0	2.0	ug/L			03/21/19 06:10	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/21/19 06:10	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/21/19 06:10	4
Trichloroethene	ND		4.0	1.8	ug/L			03/21/19 06:10	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/21/19 06:10	4
Vinyl chloride	ND		4.0	3.6	ug/L			03/21/19 06:10	4
Xylenes, Total	ND		8.0	2.6	ug/L			03/21/19 06:10	4

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-CO1_0320

Lab Sample ID: 480-150568-1

Date Collected: 03/20/19 09:40
Date Received: 03/20/19 15:45

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/21/19 06:10*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*03/21/19 06:10*	*4*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/21/19 06:10*	*4*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*03/21/19 06:10*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/26/19 07:50	03/27/19 17:15	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/26/19 07:50	03/27/19 17:15	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/26/19 07:50	03/27/19 17:15	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/26/19 07:50	03/27/19 17:15	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/26/19 07:50	03/27/19 17:15	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/26/19 07:50	03/27/19 17:15	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 17:15	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/26/19 07:50	03/27/19 17:15	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/26/19 07:50	03/27/19 17:15	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/26/19 07:50	03/27/19 17:15	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 17:15	1
2-Nitroaniline	ND		10	0.42	ug/L		03/26/19 07:50	03/27/19 17:15	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/26/19 07:50	03/27/19 17:15	1
3,3'-Dichlorobenzidine	ND	F2	5.0	0.40	ug/L		03/26/19 07:50	03/27/19 17:15	1
3-Nitroaniline	ND	F2 *	10	0.48	ug/L		03/26/19 07:50	03/27/19 17:15	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Methylphenol	ND		10	0.36	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Nitroaniline	ND	F2 *	10	0.25	ug/L		03/26/19 07:50	03/27/19 17:15	1
4-Nitrophenol	ND		10	1.5	ug/L		03/26/19 07:50	03/27/19 17:15	1
Acenaphthene	ND		5.0	0.41	ug/L		03/26/19 07:50	03/27/19 17:15	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/26/19 07:50	03/27/19 17:15	1
Acetophenone	ND		5.0	0.54	ug/L		03/26/19 07:50	03/27/19 17:15	1
Aniline	ND		10	0.61	ug/L		03/26/19 07:50	03/27/19 17:15	1
Anthracene	ND		5.0	0.28	ug/L		03/26/19 07:50	03/27/19 17:15	1
Atrazine	ND		5.0	0.46	ug/L		03/26/19 07:50	03/27/19 17:15	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/26/19 07:50	03/27/19 17:15	1
Benzo(a)anthracene	**0.55**	**J**	5.0	0.36	ug/L		03/26/19 07:50	03/27/19 17:15	1
Benzo(a)pyrene	**0.72**	**J**	5.0	0.47	ug/L		03/26/19 07:50	03/27/19 17:15	1
Benzo(b)fluoranthene	**0.83**	**J**	5.0	0.34	ug/L		03/26/19 07:50	03/27/19 17:15	1
Benzo(g,h,i)perylene	**0.53**	**J**	5.0	0.35	ug/L		03/26/19 07:50	03/27/19 17:15	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/26/19 07:50	03/27/19 17:15	1
Biphenyl	ND		5.0	0.65	ug/L		03/26/19 07:50	03/27/19 17:15	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/26/19 07:50	03/27/19 17:15	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/26/19 07:50	03/27/19 17:15	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 17:15	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/26/19 07:50	03/27/19 17:15	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/26/19 07:50	03/27/19 17:15	1
Caprolactam	ND		5.0	2.2	ug/L		03/26/19 07:50	03/27/19 17:15	1
Carbazole	ND		5.0	0.30	ug/L		03/26/19 07:50	03/27/19 17:15	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-CO1_0320

Lab Sample ID: 480-150568-1

Date Collected: 03/20/19 09:40
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**0.59**	**J**	5.0	0.33	ug/L		03/26/19 07:50	03/27/19 17:15	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/26/19 07:50	03/27/19 17:15	1
Dibenzofuran	ND		10	0.51	ug/L		03/26/19 07:50	03/27/19 17:15	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/26/19 07:50	03/27/19 17:15	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/26/19 07:50	03/27/19 17:15	1
Di-n-butyl phthalate	**0.50**	**J B**	5.0	0.31	ug/L		03/26/19 07:50	03/27/19 17:15	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/26/19 07:50	03/27/19 17:15	1
Fluoranthene	**1.3**	**J**	5.0	0.40	ug/L		03/26/19 07:50	03/27/19 17:15	1
Fluorene	ND		5.0	0.36	ug/L		03/26/19 07:50	03/27/19 17:15	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/26/19 07:50	03/27/19 17:15	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/26/19 07:50	03/27/19 17:15	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/26/19 07:50	03/27/19 17:15	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/26/19 07:50	03/27/19 17:15	1
Indeno(1,2,3-cd)pyrene	**0.50**	**J**	5.0	0.47	ug/L		03/26/19 07:50	03/27/19 17:15	1
Isophorone	ND		5.0	0.43	ug/L		03/26/19 07:50	03/27/19 17:15	1
Naphthalene	ND		5.0	0.76	ug/L		03/26/19 07:50	03/27/19 17:15	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/26/19 07:50	03/27/19 17:15	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/26/19 07:50	03/27/19 17:15	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/26/19 07:50	03/27/19 17:15	1
Pentachlorophenol	ND		10	2.2	ug/L		03/26/19 07:50	03/27/19 17:15	1
Phenanthrene	**0.76**	**J**	5.0	0.44	ug/L		03/26/19 07:50	03/27/19 17:15	1
Phenol	ND		5.0	0.39	ug/L		03/26/19 07:50	03/27/19 17:15	1
Pyrene	**1.1**	**J**	5.0	0.34	ug/L		03/26/19 07:50	03/27/19 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*103*		*41 - 120*	*03/26/19 07:50*	*03/27/19 17:15*	*1*
2-Fluorobiphenyl	*107*		*48 - 120*	*03/26/19 07:50*	*03/27/19 17:15*	*1*
2-Fluorophenol	*78*		*35 - 120*	*03/26/19 07:50*	*03/27/19 17:15*	*1*
Nitrobenzene-d5	*87*		*46 - 120*	*03/26/19 07:50*	*03/27/19 17:15*	*1*
Phenol-d5	*57*		*22 - 120*	*03/26/19 07:50*	*03/27/19 17:15*	*1*
p-Terphenyl-d14	*87*		*59 - 136*	*03/26/19 07:50*	*03/27/19 17:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6.1**		0.20	0.060	mg/L		03/28/19 07:40	03/28/19 15:21	1
Antimony	ND		0.020	0.0068	mg/L		03/28/19 07:40	03/28/19 15:21	1
Arsenic	**0.015**		0.015	0.0056	mg/L		03/28/19 07:40	03/28/19 15:21	1
Barium	**0.56**	**F1**	0.0020	0.00070	mg/L		03/28/19 07:40	03/28/19 15:21	1
Beryllium	ND		0.0020	0.00030	mg/L		03/28/19 07:40	03/28/19 15:21	1
Cadmium	**0.0013**	**J**	0.0020	0.00050	mg/L		03/28/19 07:40	03/28/19 15:21	1
Calcium	**757**		0.50	0.10	mg/L		03/28/19 07:40	03/28/19 15:21	1
Chromium	**0.018**		0.0040	0.0010	mg/L		03/28/19 07:40	03/28/19 15:21	1
Cobalt	**0.0087**		0.0040	0.00063	mg/L		03/28/19 07:40	03/28/19 15:21	1
Copper	**0.040**		0.010	0.0016	mg/L		03/28/19 07:40	03/28/19 15:21	1
Iron	**12.9**		0.050	0.019	mg/L		03/28/19 07:40	03/28/19 15:21	1
Lead	**0.061**		0.010	0.0030	mg/L		03/28/19 07:40	03/28/19 15:21	1
Magnesium	**294**		0.20	0.043	mg/L		03/28/19 07:40	03/28/19 15:21	1
Manganese	**1.6**		0.0030	0.00040	mg/L		03/28/19 07:40	03/28/19 15:21	1
Nickel	**0.015**		0.010	0.0013	mg/L		03/28/19 07:40	03/28/19 15:21	1
Potassium	**43.9**		0.50	0.10	mg/L		03/28/19 07:40	03/28/19 15:21	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-CO1_0320

Lab Sample ID: 480-150568-1

Date Collected: 03/20/19 09:40
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/28/19 07:40	03/28/19 15:21	1
Silver	ND	F1	0.0060	0.0017	mg/L		03/28/19 07:40	03/28/19 15:21	1
Sodium	**9560**		20.0	6.5	mg/L		03/28/19 07:40	03/29/19 16:18	20
Thallium	ND		0.020	0.010	mg/L		03/28/19 07:40	03/28/19 15:21	1
Vanadium	**0.012**		0.0050	0.0015	mg/L		03/28/19 07:40	03/28/19 15:21	1
Zinc	**0.23**	**B**	0.010	0.0015	mg/L		03/28/19 07:40	03/28/19 15:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0016**		0.00060	0.00036	mg/L		04/02/19 12:30	04/02/19 16:48	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C01 D_0320

Lab Sample ID: 480-150568-4

Date Collected: 03/20/19 09:50
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/22/19 01:05	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/22/19 01:05	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			03/22/19 01:05	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/22/19 01:05	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			03/22/19 01:05	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/22/19 01:05	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			03/22/19 01:05	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			03/22/19 01:05	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			03/22/19 01:05	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			03/22/19 01:05	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/22/19 01:05	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/22/19 01:05	2
1,3-Dichlorobenzene	**1.7**	**J**	2.0	1.6	ug/L			03/22/19 01:05	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			03/22/19 01:05	2
2-Butanone (MEK)	ND		20	2.6	ug/L			03/22/19 01:05	2
2-Hexanone	ND		10	2.5	ug/L			03/22/19 01:05	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			03/22/19 01:05	2
Acetone	ND		20	6.0	ug/L			03/22/19 01:05	2
Benzene	ND		2.0	0.82	ug/L			03/22/19 01:05	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/22/19 01:05	2
Bromoform	ND		2.0	0.52	ug/L			03/22/19 01:05	2
Bromomethane	ND		2.0	1.4	ug/L			03/22/19 01:05	2
Carbon disulfide	ND		2.0	0.38	ug/L			03/22/19 01:05	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/22/19 01:05	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/22/19 01:05	2
Chloroethane	ND		2.0	0.64	ug/L			03/22/19 01:05	2
Chloroform	ND		2.0	0.68	ug/L			03/22/19 01:05	2
Chloromethane	ND		2.0	0.70	ug/L			03/22/19 01:05	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			03/22/19 01:05	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/22/19 01:05	2
Cyclohexane	ND		2.0	0.36	ug/L			03/22/19 01:05	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/22/19 01:05	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			03/22/19 01:05	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/22/19 01:05	2
Isopropylbenzene	ND		2.0	1.6	ug/L			03/22/19 01:05	2
Methyl acetate	ND		5.0	2.6	ug/L			03/22/19 01:05	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			03/22/19 01:05	2
Methylcyclohexane	ND		2.0	0.32	ug/L			03/22/19 01:05	2
Methylene Chloride	ND		2.0	0.88	ug/L			03/22/19 01:05	2
Styrene	ND		2.0	1.5	ug/L			03/22/19 01:05	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/22/19 01:05	2
Toluene	ND		2.0	1.0	ug/L			03/22/19 01:05	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/22/19 01:05	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/22/19 01:05	2
Trichloroethene	ND		2.0	0.92	ug/L			03/22/19 01:05	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			03/22/19 01:05	2
Vinyl chloride	ND		2.0	1.8	ug/L			03/22/19 01:05	2
Xylenes, Total	ND		4.0	1.3	ug/L			03/22/19 01:05	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C01 D_0320

Date Collected: 03/20/19 09:50
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-4

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*03/22/19 01:05*	*2*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*03/22/19 01:05*	*2*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/22/19 01:05*	*2*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*03/22/19 01:05*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 15:00	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 15:00	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:00	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 15:00	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:00	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:00	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:00	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 15:00	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/21/19 14:07	03/25/19 15:00	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 15:00	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:00	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 15:00	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 15:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:00	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 15:00	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 15:00	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 15:00	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 15:00	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 15:00	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 15:00	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 15:00	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 15:00	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 15:00	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 15:00	1
Benzo(a)anthracene	**1.1**	**J**	5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:00	1
Benzo(a)pyrene	**1.3**	**J**	5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:00	1
Benzo(b)fluoranthene	**1.6**	**J**	5.0	0.34	ug/L		03/21/19 14:07	03/25/19 15:00	1
Benzo(g,h,i)perylene	**0.95**	**J**	5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:00	1
Benzo(k)fluoranthene	**0.77**	**J**	5.0	0.73	ug/L		03/21/19 14:07	03/25/19 15:00	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 15:00	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 15:00	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:00	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 15:00	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 15:00	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 15:00	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 15:00	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C01 D_0320

Lab Sample ID: 480-150568-4

Date Collected: 03/20/19 09:50
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**1.2**	**J**	5.0	0.33	ug/L		03/21/19 14:07	03/25/19 15:00	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 15:00	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 15:00	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 15:00	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:00	1
Di-n-butyl phthalate	**0.47**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 15:00	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:00	1
Fluoranthene	**2.4**	**J**	5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:00	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:00	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:00	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 15:00	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:00	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:00	1
Indeno(1,2,3-cd)pyrene	**0.81**	**J**	5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:00	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 15:00	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 15:00	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 15:00	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 15:00	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:00	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:00	1
Phenanthrene	**1.4**	**J**	5.0	0.44	ug/L		03/21/19 14:07	03/25/19 15:00	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 15:00	1
Pyrene	**2.1**	**J**	5.0	0.34	ug/L		03/21/19 14:07	03/25/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*41 - 120*	*03/21/19 14:07*	*03/25/19 15:00*	*1*
2-Fluorobiphenyl	*84*		*48 - 120*	*03/21/19 14:07*	*03/25/19 15:00*	*1*
2-Fluorophenol	*62*		*35 - 120*	*03/21/19 14:07*	*03/25/19 15:00*	*1*
Nitrobenzene-d5	*73*		*46 - 120*	*03/21/19 14:07*	*03/25/19 15:00*	*1*
Phenol-d5	*47*		*22 - 120*	*03/21/19 14:07*	*03/25/19 15:00*	*1*
p-Terphenyl-d14	*83*		*59 - 136*	*03/21/19 14:07*	*03/25/19 15:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.8**		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:12	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:12	1
Arsenic	**0.0089**	**J**	0.015	0.0056	mg/L		03/22/19 09:28	03/22/19 17:12	1
Barium	**0.61**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:12	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:12	1
Cadmium	**0.0014**	**J**	0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:12	1
Calcium	**805**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:12	1
Chromium	**0.017**		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:12	1
Cobalt	**0.0095**		0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:12	1
Copper	**0.043**		0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:12	1
Iron	**12.4**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:12	1
Lead	**0.066**		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:12	1
Magnesium	**303**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:12	1
Manganese	**1.7**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:12	1
Nickel	**0.017**		0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:12	1
Potassium	**49.3**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:12	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C01 D_0320

Lab Sample ID: 480-150568-4

Date Collected: 03/20/19 09:50
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:12	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:12	1
Sodium	**10200**		20.0	6.5	mg/L		03/22/19 09:28	03/25/19 13:38	20
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:12	1
Vanadium	**0.0097**		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:12	1
Zinc	**0.24**		0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0012**		0.00060	0.00036	mg/L		03/21/19 11:20	03/21/19 15:03	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C04_0320

Lab Sample ID: 480-150568-5

Date Collected: 03/20/19 11:30
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			03/22/19 01:29	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			03/22/19 01:29	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			03/22/19 01:29	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			03/22/19 01:29	10
1,1-Dichloroethane	ND		10	3.8	ug/L			03/22/19 01:29	10
1,1-Dichloroethene	ND		10	2.9	ug/L			03/22/19 01:29	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			03/22/19 01:29	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			03/22/19 01:29	10
1,2-Dibromoethane	ND		10	7.3	ug/L			03/22/19 01:29	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			03/22/19 01:29	10
1,2-Dichloroethane	ND		10	2.1	ug/L			03/22/19 01:29	10
1,2-Dichloropropane	ND		10	7.2	ug/L			03/22/19 01:29	10
1,3-Dichlorobenzene	**25**		10	7.8	ug/L			03/22/19 01:29	10
1,4-Dichlorobenzene	**49**		10	8.4	ug/L			03/22/19 01:29	10
2-Butanone (MEK)	ND		100	13	ug/L			03/22/19 01:29	10
2-Hexanone	ND		50	12	ug/L			03/22/19 01:29	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			03/22/19 01:29	10
Acetone	ND		100	30	ug/L			03/22/19 01:29	10
Benzene	ND		10	4.1	ug/L			03/22/19 01:29	10
Bromodichloromethane	ND		10	3.9	ug/L			03/22/19 01:29	10
Bromoform	ND		10	2.6	ug/L			03/22/19 01:29	10
Bromomethane	ND		10	6.9	ug/L			03/22/19 01:29	10
Carbon disulfide	ND		10	1.9	ug/L			03/22/19 01:29	10
Carbon tetrachloride	ND		10	2.7	ug/L			03/22/19 01:29	10
Chlorobenzene	**330**	**F1**	10	7.5	ug/L			03/22/19 01:29	10
Chloroethane	ND		10	3.2	ug/L			03/22/19 01:29	10
Chloroform	ND		10	3.4	ug/L			03/22/19 01:29	10
Chloromethane	ND		10	3.5	ug/L			03/22/19 01:29	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			03/22/19 01:29	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			03/22/19 01:29	10
Cyclohexane	ND		10	1.8	ug/L			03/22/19 01:29	10
Dibromochloromethane	ND		10	3.2	ug/L			03/22/19 01:29	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			03/22/19 01:29	10
Ethylbenzene	ND		10	7.4	ug/L			03/22/19 01:29	10
Isopropylbenzene	ND		10	7.9	ug/L			03/22/19 01:29	10
Methyl acetate	ND		25	13	ug/L			03/22/19 01:29	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			03/22/19 01:29	10
Methylcyclohexane	ND		10	1.6	ug/L			03/22/19 01:29	10
Methylene Chloride	ND		10	4.4	ug/L			03/22/19 01:29	10
Styrene	ND		10	7.3	ug/L			03/22/19 01:29	10
Tetrachloroethene	ND		10	3.6	ug/L			03/22/19 01:29	10
Toluene	ND		10	5.1	ug/L			03/22/19 01:29	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			03/22/19 01:29	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			03/22/19 01:29	10
Trichloroethene	ND		10	4.6	ug/L			03/22/19 01:29	10
Trichlorofluoromethane	ND		10	8.8	ug/L			03/22/19 01:29	10
Vinyl chloride	ND		10	9.0	ug/L			03/22/19 01:29	10
Xylenes, Total	ND		20	6.6	ug/L			03/22/19 01:29	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C04_0320

Lab Sample ID: 480-150568-5

Date Collected: 03/20/19 11:30
Date Received: 03/20/19 15:45

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*03/22/19 01:29*	*10*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*03/22/19 01:29*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/22/19 01:29*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*03/22/19 01:29*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 15:29	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 15:29	1
2,4-Dichlorophenol	**0.54**	**J**	5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:29	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 15:29	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:29	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:29	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:29	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 15:29	1
2-Chlorophenol	**1.1**	**J**	5.0	0.53	ug/L		03/21/19 14:07	03/25/19 15:29	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 15:29	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:29	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 15:29	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 15:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:29	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 15:29	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 15:29	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 15:29	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 15:29	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 15:29	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 15:29	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 15:29	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 15:29	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 15:29	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 15:29	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:29	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:29	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 15:29	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:29	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/25/19 15:29	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 15:29	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 15:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:29	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:29	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 15:29	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 15:29	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 15:29	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 15:29	1

Client Sample ID: BCC Area C MW-C04_0320

Lab Sample ID: 480-150568-5

Date Collected: 03/20/19 11:30

Matrix: Ground Water

Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/25/19 15:29	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 15:29	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 15:29	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 15:29	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:29	1
Di-n-butyl phthalate	**0.47**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 15:29	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:29	1
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:29	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:29	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:29	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 15:29	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:29	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:29	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:29	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 15:29	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 15:29	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 15:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 15:29	1
N-Nitrosodiphenylamine	**0.91**	**J**	5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:29	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:29	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/25/19 15:29	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 15:29	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*103*		*41 - 120*	*03/21/19 14:07*	*03/25/19 15:29*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*03/21/19 14:07*	*03/25/19 15:29*	*1*
2-Fluorophenol	*61*		*35 - 120*	*03/21/19 14:07*	*03/25/19 15:29*	*1*
Nitrobenzene-d5	*75*		*46 - 120*	*03/21/19 14:07*	*03/25/19 15:29*	*1*
Phenol-d5	*43*		*22 - 120*	*03/21/19 14:07*	*03/25/19 15:29*	*1*
p-Terphenyl-d14	*85*		*59 - 136*	*03/21/19 14:07*	*03/25/19 15:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:16	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:16	1
Arsenic	ND		0.015	0.0056	mg/L		03/22/19 09:28	03/22/19 17:16	1
Barium	**0.43**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:16	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:16	1
Cadmium	ND		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:16	1
Calcium	**194**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:16	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:16	1
Cobalt	ND		0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:16	1
Copper	**0.0027**	**J**	0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:16	1
Iron	**7.8**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:16	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:16	1
Magnesium	**26.6**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:16	1
Manganese	**0.91**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:16	1
Nickel	ND		0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:16	1
Potassium	**6.6**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:16	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-C04_0320

Lab Sample ID: 480-150568-5

Date Collected: 03/20/19 11:30
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:16	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:16	1
Sodium	**26.5**		1.0	0.32	mg/L		03/22/19 09:28	03/22/19 17:16	1
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:16	1
Vanadium	ND		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:16	1
Zinc	**0.0059**	**J**	0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 15:04	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-04_0320

Lab Sample ID: 480-150568-6

Date Collected: 03/20/19 11:00
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/22/19 01:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/22/19 01:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/22/19 01:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/22/19 01:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/22/19 01:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/22/19 01:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/22/19 01:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/22/19 01:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/22/19 01:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/22/19 01:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/22/19 01:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/22/19 01:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/22/19 01:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/22/19 01:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/22/19 01:53	1
2-Hexanone	ND		5.0	1.2	ug/L			03/22/19 01:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/22/19 01:53	1
Acetone	ND		10	3.0	ug/L			03/22/19 01:53	1
Benzene	ND		1.0	0.41	ug/L			03/22/19 01:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/22/19 01:53	1
Bromoform	ND		1.0	0.26	ug/L			03/22/19 01:53	1
Bromomethane	ND		1.0	0.69	ug/L			03/22/19 01:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/22/19 01:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/22/19 01:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/22/19 01:53	1
Chloroethane	ND		1.0	0.32	ug/L			03/22/19 01:53	1
Chloroform	ND		1.0	0.34	ug/L			03/22/19 01:53	1
Chloromethane	ND		1.0	0.35	ug/L			03/22/19 01:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/22/19 01:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/22/19 01:53	1
Cyclohexane	ND		1.0	0.18	ug/L			03/22/19 01:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/22/19 01:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/22/19 01:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/22/19 01:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/22/19 01:53	1
Methyl acetate	ND		2.5	1.3	ug/L			03/22/19 01:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/22/19 01:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/22/19 01:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/22/19 01:53	1
Styrene	ND		1.0	0.73	ug/L			03/22/19 01:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/22/19 01:53	1
Toluene	ND		1.0	0.51	ug/L			03/22/19 01:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/22/19 01:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/22/19 01:53	1
Trichloroethene	ND		1.0	0.46	ug/L			03/22/19 01:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/22/19 01:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/22/19 01:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/22/19 01:53	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-04_0320

Date Collected: 03/20/19 11:00
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-6

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*03/22/19 01:53*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*03/22/19 01:53*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/22/19 01:53*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/22/19 01:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 15:59	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 15:59	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:59	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 15:59	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:59	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:59	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:59	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 15:59	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/21/19 14:07	03/25/19 15:59	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 15:59	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:59	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 15:59	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 15:59	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:59	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 15:59	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 15:59	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 15:59	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 15:59	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 15:59	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 15:59	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 15:59	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 15:59	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 15:59	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 15:59	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:59	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:59	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 15:59	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:59	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/25/19 15:59	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 15:59	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 15:59	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 15:59	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:59	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 15:59	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 15:59	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 15:59	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 15:59	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-04_0320

Lab Sample ID: 480-150568-6

Date Collected: 03/20/19 11:00
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/25/19 15:59	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 15:59	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 15:59	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 15:59	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:59	1
Di-n-butyl phthalate	**0.47**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 15:59	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:59	1
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 15:59	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 15:59	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:59	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 15:59	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:59	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 15:59	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 15:59	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 15:59	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 15:59	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 15:59	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 15:59	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 15:59	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 15:59	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/25/19 15:59	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 15:59	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*41 - 120*	*03/21/19 14:07*	*03/25/19 15:59*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*03/21/19 14:07*	*03/25/19 15:59*	*1*
2-Fluorophenol	*62*		*35 - 120*	*03/21/19 14:07*	*03/25/19 15:59*	*1*
Nitrobenzene-d5	*77*		*46 - 120*	*03/21/19 14:07*	*03/25/19 15:59*	*1*
Phenol-d5	*44*		*22 - 120*	*03/21/19 14:07*	*03/25/19 15:59*	*1*
p-Terphenyl-d14	*86*		*59 - 136*	*03/21/19 14:07*	*03/25/19 15:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:20	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:20	1
Arsenic	ND		0.015	0.0056	mg/L		03/22/19 09:28	03/22/19 17:20	1
Barium	**0.030**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:20	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:20	1
Cadmium	**0.0070**		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:20	1
Calcium	**186**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:20	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:20	1
Cobalt	**0.0036**	**J**	0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:20	1
Copper	**0.043**		0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:20	1
Iron	**0.087**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:20	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:20	1
Magnesium	**25.3**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:20	1
Manganese	**0.0087**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:20	1
Nickel	**0.053**		0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:20	1
Potassium	**7.3**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:20	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-04_0320

Lab Sample ID: 480-150568-6

Date Collected: 03/20/19 11:00
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:20	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:20	1
Sodium	**20.2**		1.0	0.32	mg/L		03/22/19 09:28	03/22/19 17:20	1
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:20	1
Vanadium	ND		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:20	1
Zinc	**0.43**		0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 15:06	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-05A_0320

Lab Sample ID: 480-150568-7

Date Collected: 03/20/19 08:30
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/22/19 02:18	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/22/19 02:18	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/22/19 02:18	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/22/19 02:18	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/22/19 02:18	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/22/19 02:18	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/22/19 02:18	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/22/19 02:18	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/22/19 02:18	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/22/19 02:18	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/22/19 02:18	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/22/19 02:18	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/22/19 02:18	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/22/19 02:18	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/22/19 02:18	5
2-Hexanone	ND		25	6.2	ug/L			03/22/19 02:18	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/22/19 02:18	5
Acetone	ND		50	15	ug/L			03/22/19 02:18	5
Benzene	ND		5.0	2.1	ug/L			03/22/19 02:18	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/22/19 02:18	5
Bromoform	ND		5.0	1.3	ug/L			03/22/19 02:18	5
Bromomethane	ND		5.0	3.5	ug/L			03/22/19 02:18	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/22/19 02:18	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/22/19 02:18	5
Chlorobenzene	**130**		5.0	3.8	ug/L			03/22/19 02:18	5
Chloroethane	ND		5.0	1.6	ug/L			03/22/19 02:18	5
Chloroform	ND		5.0	1.7	ug/L			03/22/19 02:18	5
Chloromethane	ND		5.0	1.8	ug/L			03/22/19 02:18	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/22/19 02:18	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/22/19 02:18	5
Cyclohexane	ND		5.0	0.90	ug/L			03/22/19 02:18	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/22/19 02:18	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/22/19 02:18	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/22/19 02:18	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/22/19 02:18	5
Methyl acetate	ND		13	6.5	ug/L			03/22/19 02:18	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/22/19 02:18	5
Methylcyclohexane	ND		5.0	0.80	ug/L			03/22/19 02:18	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/22/19 02:18	5
Styrene	ND		5.0	3.7	ug/L			03/22/19 02:18	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/22/19 02:18	5
Toluene	ND		5.0	2.6	ug/L			03/22/19 02:18	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/22/19 02:18	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/22/19 02:18	5
Trichloroethene	ND		5.0	2.3	ug/L			03/22/19 02:18	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/22/19 02:18	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/22/19 02:18	5
Xylenes, Total	ND		10	3.3	ug/L			03/22/19 02:18	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-05A_0320

Date Collected: 03/20/19 08:30
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-7

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/22/19 02:18*	*5*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*03/22/19 02:18*	*5*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/22/19 02:18*	*5*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/22/19 02:18*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 16:29	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 16:29	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 16:29	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 16:29	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 16:29	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 16:29	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:29	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 16:29	1
2-Chlorophenol	**1.1**	**J**	5.0	0.53	ug/L		03/21/19 14:07	03/25/19 16:29	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 16:29	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:29	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 16:29	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 16:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:29	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 16:29	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 16:29	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 16:29	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 16:29	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 16:29	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 16:29	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 16:29	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 16:29	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 16:29	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 16:29	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 16:29	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 16:29	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 16:29	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 16:29	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/25/19 16:29	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 16:29	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 16:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 16:29	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:29	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 16:29	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 16:29	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 16:29	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 16:29	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-05A_0320

Lab Sample ID: 480-150568-7

Date Collected: 03/20/19 08:30
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/25/19 16:29	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 16:29	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 16:29	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 16:29	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 16:29	1
Di-n-butyl phthalate	**0.45**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 16:29	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 16:29	1
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:29	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 16:29	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 16:29	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 16:29	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 16:29	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 16:29	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 16:29	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 16:29	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 16:29	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 16:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 16:29	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 16:29	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 16:29	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/25/19 16:29	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 16:29	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*104*		*41 - 120*	*03/21/19 14:07*	*03/25/19 16:29*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*03/21/19 14:07*	*03/25/19 16:29*	*1*
2-Fluorophenol	*63*		*35 - 120*	*03/21/19 14:07*	*03/25/19 16:29*	*1*
Nitrobenzene-d5	*77*		*46 - 120*	*03/21/19 14:07*	*03/25/19 16:29*	*1*
Phenol-d5	*45*		*22 - 120*	*03/21/19 14:07*	*03/25/19 16:29*	*1*
p-Terphenyl-d14	*93*		*59 - 136*	*03/21/19 14:07*	*03/25/19 16:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.31**		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:23	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:23	1
Arsenic	**0.032**		0.015	0.0056	mg/L		03/22/19 09:28	03/22/19 17:23	1
Barium	**0.014**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:23	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:23	1
Cadmium	ND		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:23	1
Calcium	**196**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:23	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:23	1
Cobalt	ND		0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:23	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:23	1
Iron	**8.0**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:23	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:23	1
Magnesium	**21.7**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:23	1
Manganese	**0.21**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:23	1
Nickel	**0.0014**	**J**	0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:23	1
Potassium	**10.1**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:23	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-05A_0320

Lab Sample ID: 480-150568-7

Date Collected: 03/20/19 08:30
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:23	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:23	1
Sodium	**99.6**		1.0	0.32	mg/L		03/22/19 09:28	03/22/19 17:23	1
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:23	1
Vanadium	ND		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:23	1
Zinc	**0.056**		0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 15:10	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-06_0320

Lab Sample ID: 480-150568-8

Date Collected: 03/20/19 15:00
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/22/19 11:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/22/19 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/22/19 11:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/22/19 11:42	1
1,1-Dichloroethane	**1.1**		1.0	0.38	ug/L			03/22/19 11:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/22/19 11:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/22/19 11:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/22/19 11:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/22/19 11:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/22/19 11:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/22/19 11:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/22/19 11:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/22/19 11:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/22/19 11:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/22/19 11:42	1
2-Hexanone	ND		5.0	1.2	ug/L			03/22/19 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/22/19 11:42	1
Acetone	ND		10	3.0	ug/L			03/22/19 11:42	1
Benzene	ND		1.0	0.41	ug/L			03/22/19 11:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/22/19 11:42	1
Bromoform	ND		1.0	0.26	ug/L			03/22/19 11:42	1
Bromomethane	ND		1.0	0.69	ug/L			03/22/19 11:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/22/19 11:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/22/19 11:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/22/19 11:42	1
Chloroethane	ND		1.0	0.32	ug/L			03/22/19 11:42	1
Chloroform	ND		1.0	0.34	ug/L			03/22/19 11:42	1
Chloromethane	ND		1.0	0.35	ug/L			03/22/19 11:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/22/19 11:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/22/19 11:42	1
Cyclohexane	ND		1.0	0.18	ug/L			03/22/19 11:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/22/19 11:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/22/19 11:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/22/19 11:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/22/19 11:42	1
Methyl acetate	ND		2.5	1.3	ug/L			03/22/19 11:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/22/19 11:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/22/19 11:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/22/19 11:42	1
Styrene	ND		1.0	0.73	ug/L			03/22/19 11:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/22/19 11:42	1
Toluene	ND		1.0	0.51	ug/L			03/22/19 11:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/22/19 11:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/22/19 11:42	1
Trichloroethene	ND		1.0	0.46	ug/L			03/22/19 11:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/22/19 11:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/22/19 11:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/22/19 11:42	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-06_0320

Date Collected: 03/20/19 15:00
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-8

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/22/19 11:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/22/19 11:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/22/19 11:42*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*03/22/19 11:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 16:58	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 16:58	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 16:58	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 16:58	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 16:58	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 16:58	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:58	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 16:58	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/21/19 14:07	03/25/19 16:58	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 16:58	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:58	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 16:58	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 16:58	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:58	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 16:58	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 16:58	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 16:58	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 16:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 16:58	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 16:58	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 16:58	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 16:58	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 16:58	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 16:58	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 16:58	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 16:58	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 16:58	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 16:58	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/25/19 16:58	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 16:58	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 16:58	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 16:58	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 16:58	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 16:58	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 16:58	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 16:58	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-06_0320

Lab Sample ID: 480-150568-8

Date Collected: 03/20/19 15:00
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/25/19 16:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 16:58	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 16:58	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 16:58	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 16:58	1
Di-n-butyl phthalate	**0.42**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 16:58	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 16:58	1
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 16:58	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 16:58	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 16:58	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 16:58	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 16:58	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 16:58	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 16:58	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 16:58	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 16:58	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 16:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 16:58	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 16:58	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 16:58	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/25/19 16:58	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 16:58	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*41 - 120*	*03/21/19 14:07*	*03/25/19 16:58*	*1*
2-Fluorobiphenyl	*86*		*48 - 120*	*03/21/19 14:07*	*03/25/19 16:58*	*1*
2-Fluorophenol	*59*		*35 - 120*	*03/21/19 14:07*	*03/25/19 16:58*	*1*
Nitrobenzene-d5	*73*		*46 - 120*	*03/21/19 14:07*	*03/25/19 16:58*	*1*
Phenol-d5	*44*		*22 - 120*	*03/21/19 14:07*	*03/25/19 16:58*	*1*
p-Terphenyl-d14	*88*		*59 - 136*	*03/21/19 14:07*	*03/25/19 16:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.064**	**J**	0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:27	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:27	1
Arsenic	**0.064**		0.015	0.0056	mg/L		03/22/19 09:28	03/22/19 17:27	1
Barium	**0.0086**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:27	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:27	1
Cadmium	ND		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:27	1
Calcium	**212**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:27	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:27	1
Cobalt	ND		0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:27	1
Copper	ND		0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:27	1
Iron	**33.6**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:27	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:27	1
Magnesium	**9.9**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:27	1
Manganese	**0.16**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:27	1
Nickel	ND		0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:27	1
Potassium	**43.7**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:27	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C PS-06_0320

Lab Sample ID: 480-150568-8

Date Collected: 03/20/19 15:00
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:27	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:27	1
Sodium	**37.8**		1.0	0.32	mg/L		03/22/19 09:28	03/22/19 17:27	1
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:27	1
Vanadium	ND		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:27	1
Zinc	**0.0038**	**J**	0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 15:11	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-20_0320

Lab Sample ID: 480-150568-9

Date Collected: 03/20/19 14:10
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/22/19 03:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/22/19 03:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/22/19 03:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/22/19 03:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/22/19 03:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/22/19 03:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/22/19 03:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/22/19 03:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/22/19 03:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/22/19 03:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/22/19 03:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/22/19 03:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/22/19 03:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/22/19 03:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/22/19 03:06	1
2-Hexanone	ND		5.0	1.2	ug/L			03/22/19 03:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/22/19 03:06	1
Acetone	ND		10	3.0	ug/L			03/22/19 03:06	1
Benzene	ND		1.0	0.41	ug/L			03/22/19 03:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/22/19 03:06	1
Bromoform	ND		1.0	0.26	ug/L			03/22/19 03:06	1
Bromomethane	ND		1.0	0.69	ug/L			03/22/19 03:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/22/19 03:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/22/19 03:06	1
Chlorobenzene	**5.9**		1.0	0.75	ug/L			03/22/19 03:06	1
Chloroethane	ND		1.0	0.32	ug/L			03/22/19 03:06	1
Chloroform	ND		1.0	0.34	ug/L			03/22/19 03:06	1
Chloromethane	ND		1.0	0.35	ug/L			03/22/19 03:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/22/19 03:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/22/19 03:06	1
Cyclohexane	ND		1.0	0.18	ug/L			03/22/19 03:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/22/19 03:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/22/19 03:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/22/19 03:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/22/19 03:06	1
Methyl acetate	ND		2.5	1.3	ug/L			03/22/19 03:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/22/19 03:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/22/19 03:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/22/19 03:06	1
Styrene	ND		1.0	0.73	ug/L			03/22/19 03:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/22/19 03:06	1
Toluene	ND		1.0	0.51	ug/L			03/22/19 03:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/22/19 03:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/22/19 03:06	1
Trichloroethene	ND		1.0	0.46	ug/L			03/22/19 03:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/22/19 03:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/22/19 03:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/22/19 03:06	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-20_0320

Date Collected: 03/20/19 14:10
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-9

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/22/19 03:06*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/22/19 03:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/22/19 03:06*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*03/22/19 03:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 17:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 17:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 17:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 17:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 17:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 17:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:28	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 17:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/21/19 14:07	03/25/19 17:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 17:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:28	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 17:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 17:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:28	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 17:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 17:28	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 17:28	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 17:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 17:28	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 17:28	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 17:28	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 17:28	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 17:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 17:28	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 17:28	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 17:28	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 17:28	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 17:28	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/25/19 17:28	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 17:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 17:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 17:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 17:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 17:28	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 17:28	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 17:28	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-20_0320

Lab Sample ID: 480-150568-9

Date Collected: 03/20/19 14:10
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/25/19 17:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 17:28	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 17:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 17:28	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 17:28	1
Di-n-butyl phthalate	**0.46**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 17:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 17:28	1
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:28	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 17:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 17:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 17:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 17:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 17:28	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 17:28	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 17:28	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 17:28	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 17:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 17:28	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 17:28	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 17:28	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/25/19 17:28	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 17:28	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*03/21/19 14:07*	*03/25/19 17:28*	*1*
2-Fluorobiphenyl	*77*		*48 - 120*	*03/21/19 14:07*	*03/25/19 17:28*	*1*
2-Fluorophenol	*54*		*35 - 120*	*03/21/19 14:07*	*03/25/19 17:28*	*1*
Nitrobenzene-d5	*69*		*46 - 120*	*03/21/19 14:07*	*03/25/19 17:28*	*1*
Phenol-d5	*39*		*22 - 120*	*03/21/19 14:07*	*03/25/19 17:28*	*1*
p-Terphenyl-d14	*74*		*59 - 136*	*03/21/19 14:07*	*03/25/19 17:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:42	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:42	1
Arsenic	ND		0.015	0.0056	mg/L		03/22/19 09:28	03/25/19 13:42	1
Barium	**0.041**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:42	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:42	1
Cadmium	ND		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:42	1
Calcium	**119**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:42	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:42	1
Cobalt	ND		0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:42	1
Copper	ND		0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:42	1
Iron	**8.2**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:42	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:42	1
Magnesium	**13.3**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:42	1
Manganese	**0.31**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:42	1
Nickel	**0.0015**	**J**	0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:42	1
Potassium	**4.3**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:42	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-20_0320

Lab Sample ID: 480-150568-9

Date Collected: 03/20/19 14:10
Date Received: 03/20/19 15:45

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:42	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:42	1
Sodium	**20.4**		1.0	0.32	mg/L		03/22/19 09:28	03/22/19 17:42	1
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:42	1
Vanadium	**0.0017**	**J**	0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:42	1
Zinc	**0.0081**	**J**	0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 15:12	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-31_0320

Date Collected: 03/20/19 12:50
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-10

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			03/21/19 07:10	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			03/21/19 07:10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			03/21/19 07:10	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			03/21/19 07:10	10
1,1-Dichloroethane	ND		10	3.8	ug/L			03/21/19 07:10	10
1,1-Dichloroethene	ND		10	2.9	ug/L			03/21/19 07:10	10
1,2,4-Trichlorobenzene	**22**		10	4.1	ug/L			03/21/19 07:10	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			03/21/19 07:10	10
1,2-Dibromoethane	ND		10	7.3	ug/L			03/21/19 07:10	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			03/21/19 07:10	10
1,2-Dichloroethane	ND		10	2.1	ug/L			03/21/19 07:10	10
1,2-Dichloropropane	ND		10	7.2	ug/L			03/21/19 07:10	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			03/21/19 07:10	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			03/21/19 07:10	10
2-Butanone (MEK)	ND		100	13	ug/L			03/21/19 07:10	10
2-Hexanone	ND		50	12	ug/L			03/21/19 07:10	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			03/21/19 07:10	10
Acetone	ND		100	30	ug/L			03/21/19 07:10	10
Benzene	ND		10	4.1	ug/L			03/21/19 07:10	10
Bromodichloromethane	ND		10	3.9	ug/L			03/21/19 07:10	10
Bromoform	ND		10	2.6	ug/L			03/21/19 07:10	10
Bromomethane	ND		10	6.9	ug/L			03/21/19 07:10	10
Carbon disulfide	ND		10	1.9	ug/L			03/21/19 07:10	10
Carbon tetrachloride	ND		10	2.7	ug/L			03/21/19 07:10	10
Chlorobenzene	ND		10	7.5	ug/L			03/21/19 07:10	10
Chloroethane	ND		10	3.2	ug/L			03/21/19 07:10	10
Chloroform	ND		10	3.4	ug/L			03/21/19 07:10	10
Chloromethane	ND		10	3.5	ug/L			03/21/19 07:10	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			03/21/19 07:10	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			03/21/19 07:10	10
Cyclohexane	ND		10	1.8	ug/L			03/21/19 07:10	10
Dibromochloromethane	ND		10	3.2	ug/L			03/21/19 07:10	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			03/21/19 07:10	10
Ethylbenzene	ND		10	7.4	ug/L			03/21/19 07:10	10
Isopropylbenzene	ND		10	7.9	ug/L			03/21/19 07:10	10
Methyl acetate	ND		25	13	ug/L			03/21/19 07:10	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			03/21/19 07:10	10
Methylcyclohexane	ND		10	1.6	ug/L			03/21/19 07:10	10
Methylene Chloride	ND		10	4.4	ug/L			03/21/19 07:10	10
Styrene	ND		10	7.3	ug/L			03/21/19 07:10	10
Tetrachloroethene	ND		10	3.6	ug/L			03/21/19 07:10	10
Toluene	ND		10	5.1	ug/L			03/21/19 07:10	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			03/21/19 07:10	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			03/21/19 07:10	10
Trichloroethene	ND		10	4.6	ug/L			03/21/19 07:10	10
Trichlorofluoromethane	ND		10	8.8	ug/L			03/21/19 07:10	10
Vinyl chloride	ND		10	9.0	ug/L			03/21/19 07:10	10
Xylenes, Total	ND		20	6.6	ug/L			03/21/19 07:10	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-31_0320

Date Collected: 03/20/19 12:50
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-10

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*03/21/19 07:10*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*03/21/19 07:10*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/21/19 07:10*	*10*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*03/21/19 07:10*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 17:58	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/25/19 17:58	1
2,4-Dichlorophenol	**0.58**	**J**	5.0	0.51	ug/L		03/21/19 14:07	03/25/19 17:58	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/25/19 17:58	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 17:58	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 17:58	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:58	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 17:58	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/21/19 14:07	03/25/19 17:58	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/25/19 17:58	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:58	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/25/19 17:58	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/25/19 17:58	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:58	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/25/19 17:58	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/25/19 17:58	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/25/19 17:58	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/25/19 17:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/25/19 17:58	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 17:58	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/25/19 17:58	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/25/19 17:58	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/25/19 17:58	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/25/19 17:58	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 17:58	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 17:58	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 17:58	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 17:58	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/25/19 17:58	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/25/19 17:58	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/25/19 17:58	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/25/19 17:58	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 17:58	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/25/19 17:58	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/25/19 17:58	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/25/19 17:58	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-31_0320

Date Collected: 03/20/19 12:50
Date Received: 03/20/19 15:45

Lab Sample ID: 480-150568-10

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/25/19 17:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/25/19 17:58	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/25/19 17:58	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/25/19 17:58	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 17:58	1
Di-n-butyl phthalate	**0.32**	**J**	5.0	0.31	ug/L		03/21/19 14:07	03/25/19 17:58	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 17:58	1
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/25/19 17:58	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/25/19 17:58	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 17:58	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/25/19 17:58	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 17:58	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/25/19 17:58	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/25/19 17:58	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/25/19 17:58	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/25/19 17:58	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/25/19 17:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/25/19 17:58	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/25/19 17:58	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/25/19 17:58	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/25/19 17:58	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/25/19 17:58	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/25/19 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*41 - 120*	*03/21/19 14:07*	*03/25/19 17:58*	*1*
2-Fluorobiphenyl	*64*		*48 - 120*	*03/21/19 14:07*	*03/25/19 17:58*	*1*
2-Fluorophenol	*46*		*35 - 120*	*03/21/19 14:07*	*03/25/19 17:58*	*1*
Nitrobenzene-d5	*55*		*46 - 120*	*03/21/19 14:07*	*03/25/19 17:58*	*1*
Phenol-d5	*33*		*22 - 120*	*03/21/19 14:07*	*03/25/19 17:58*	*1*
p-Terphenyl-d14	*54*	*X*	*59 - 136*	*03/21/19 14:07*	*03/25/19 17:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 17:46	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 17:46	1
Arsenic	ND		0.015	0.0056	mg/L		03/22/19 09:28	03/25/19 13:46	1
Barium	**0.020**		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 17:46	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 17:46	1
Cadmium	ND		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 17:46	1
Calcium	**424**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:46	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 17:46	1
Cobalt	**0.0029**	**J**	0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 17:46	1
Copper	**0.0019**	**J**	0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 17:46	1
Iron	**0.67**		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 17:46	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 17:46	1
Magnesium	**150**		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 17:46	1
Manganese	**1.5**	**B**	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 17:46	1
Nickel	**0.0043**	**J**	0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 17:46	1
Potassium	**14.2**		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 17:46	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-31_0320

Lab Sample ID: 480-150568-10

Date Collected: 03/20/19 12:50
Matrix: Ground Water
Date Received: 03/20/19 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 17:46	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 17:46	1
Sodium	**2330**		5.0	1.6	mg/L		03/22/19 09:28	03/25/19 13:50	5
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 17:46	1
Vanadium	ND		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 17:46	1
Zinc	**0.0065**	**J**	0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 17:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00012**	**J**	0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 15:14	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-150568-11

Date Collected: 03/20/19 00:00
Date Received: 03/20/19 15:45

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/22/19 03:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/22/19 03:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/22/19 03:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/22/19 03:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/22/19 03:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/22/19 03:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/22/19 03:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/22/19 03:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/22/19 03:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/22/19 03:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/22/19 03:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/22/19 03:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/22/19 03:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/22/19 03:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/22/19 03:31	1
2-Hexanone	ND		5.0	1.2	ug/L			03/22/19 03:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/22/19 03:31	1
Acetone	ND		10	3.0	ug/L			03/22/19 03:31	1
Benzene	ND		1.0	0.41	ug/L			03/22/19 03:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/22/19 03:31	1
Bromoform	ND		1.0	0.26	ug/L			03/22/19 03:31	1
Bromomethane	ND		1.0	0.69	ug/L			03/22/19 03:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/22/19 03:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/22/19 03:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/22/19 03:31	1
Chloroethane	ND		1.0	0.32	ug/L			03/22/19 03:31	1
Chloroform	ND		1.0	0.34	ug/L			03/22/19 03:31	1
Chloromethane	ND		1.0	0.35	ug/L			03/22/19 03:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/22/19 03:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/22/19 03:31	1
Cyclohexane	ND		1.0	0.18	ug/L			03/22/19 03:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/22/19 03:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/22/19 03:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/22/19 03:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/22/19 03:31	1
Methyl acetate	ND		2.5	1.3	ug/L			03/22/19 03:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/22/19 03:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/22/19 03:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/22/19 03:31	1
Styrene	ND		1.0	0.73	ug/L			03/22/19 03:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/22/19 03:31	1
Toluene	ND		1.0	0.51	ug/L			03/22/19 03:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/22/19 03:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/22/19 03:31	1
Trichloroethene	ND		1.0	0.46	ug/L			03/22/19 03:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/22/19 03:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/22/19 03:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/22/19 03:31	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-150568-11

Date Collected: 03/20/19 00:00

Matrix: Water

Date Received: 03/20/19 15:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		03/22/19 03:31	1
4-Bromofluorobenzene (Surr)	95		73 - 120		03/22/19 03:31	1
Toluene-d8 (Surr)	96		80 - 120		03/22/19 03:31	1
Dibromofluoromethane (Surr)	105		75 - 123		03/22/19 03:31	1

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-150568-1	BCC Area C MW-CO1_0320	103	98	100	102
480-150568-1 MS	BCC Area C MW-CO1 MS_032(	108	100	100	107
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	106	100	101	102
480-150568-4	BCC Area C MW-C01 D_0320	106	92	97	103
480-150568-5	BCC Area C MW-C04_0320	102	95	96	98
480-150568-5 MS	BCC Area C MW-C04_0320	103	100	100	100
480-150568-5 MSD	BCC Area C MW-C04_0320	104	99	102	99
480-150568-6	BCC Area C PS-04_0320	108	96	97	105
480-150568-7	BCC Area C PS-05A_0320	107	93	97	104
480-150568-8	BCC Area C PS-06_0320	103	97	98	100
480-150568-9	BCC Area C RFI-20_0320	107	97	96	103
480-150568-10	BCC Area C RFI-31_0320	95	99	96	99
480-150568-10 MS	BCC Area C RFI-31_0320	97	99	96	101
480-150568-10 MSD	BCC Area C RFI-31_0320	94	101	97	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-150568-11	TRIP BLANK	105	95	96	105
LCS 480-463938/5	Lab Control Sample	104	99	102	104
LCS 480-463939/5	Lab Control Sample	94	98	96	97
LCS 480-464158/5	Lab Control Sample	105	99	100	103
LCS 480-464196/5	Lab Control Sample	105	99	101	102
LCS 480-464673/5	Lab Control Sample	107	101	102	104
MB 480-463938/7	Method Blank	104	97	99	102
MB 480-463939/7	Method Blank	94	96	97	97
MB 480-464158/7	Method Blank	100	97	103	101
MB 480-464196/7	Method Blank	103	97	98	102
MB 480-464673/7	Method Blank	112	93	100	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPHd14 (59-136)
480-150568-1	BCC Area C MW-CO1_0320	103	107	78	87	57	87
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	116	104	77	99	63	84
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	105	105	73	92	62	83
480-150568-4	BCC Area C MW-C01 D_0320	91	84	62	73	47	83
480-150568-5	BCC Area C MW-C04_0320	103	91	61	75	43	85
480-150568-6	BCC Area C PS-04_0320	97	89	62	77	44	86
480-150568-7	BCC Area C PS-05A_0320	104	91	63	77	45	93
480-150568-8	BCC Area C PS-06_0320	100	86	59	73	44	88
480-150568-9	BCC Area C RFI-20_0320	89	77	54	69	39	74
480-150568-10	BCC Area C RFI-31_0320	73	64	46	55	33	54 X

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPHd14 (59-136)
LCS 480-464095/2-A	Lab Control Sample	106	98	73	97	58	103
LCS 480-464647/2-A	Lab Control Sample	108	105	78	97	61	108
LCSD 480-464095/3-A	Lab Control Sample Dup	106	96	70	87	54	99
MB 480-464095/1-A	Method Blank	74	92	68	76	49	100
MB 480-464647/1-A	Method Blank	85	97	68	85	53	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-463938/7
Matrix: Water
Analysis Batch: 463938

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/20/19 21:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/19 21:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/20/19 21:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/20/19 21:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/20/19 21:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/20/19 21:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/20/19 21:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/20/19 21:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/20/19 21:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/20/19 21:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/20/19 21:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/20/19 21:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/20/19 21:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/20/19 21:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/20/19 21:39	1
2-Hexanone	ND		5.0	1.2	ug/L			03/20/19 21:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/20/19 21:39	1
Acetone	ND		10	3.0	ug/L			03/20/19 21:39	1
Benzene	ND		1.0	0.41	ug/L			03/20/19 21:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/20/19 21:39	1
Bromoform	ND		1.0	0.26	ug/L			03/20/19 21:39	1
Bromomethane	ND		1.0	0.69	ug/L			03/20/19 21:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/20/19 21:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/20/19 21:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/20/19 21:39	1
Chloroethane	ND		1.0	0.32	ug/L			03/20/19 21:39	1
Chloroform	ND		1.0	0.34	ug/L			03/20/19 21:39	1
Chloromethane	ND		1.0	0.35	ug/L			03/20/19 21:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/20/19 21:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/20/19 21:39	1
Cyclohexane	ND		1.0	0.18	ug/L			03/20/19 21:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/20/19 21:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/20/19 21:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/20/19 21:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/20/19 21:39	1
Methyl acetate	ND		2.5	1.3	ug/L			03/20/19 21:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/20/19 21:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/20/19 21:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/20/19 21:39	1
Styrene	ND		1.0	0.73	ug/L			03/20/19 21:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/20/19 21:39	1
Toluene	ND		1.0	0.51	ug/L			03/20/19 21:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/20/19 21:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/20/19 21:39	1
Trichloroethene	ND		1.0	0.46	ug/L			03/20/19 21:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/20/19 21:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/20/19 21:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/20/19 21:39	1

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

Lab Sample ID: MB 480-463938/7
Matrix: Water
Analysis Batch: 463938

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		03/20/19 21:39	1
4-Bromofluorobenzene (Surr)	97		73 - 120		03/20/19 21:39	1
Toluene-d8 (Surr)	99		80 - 120		03/20/19 21:39	1
Dibromofluoromethane (Surr)	102		75 - 123		03/20/19 21:39	1

Lab Sample ID: LCS 480-463938/5
Matrix: Water
Analysis Batch: 463938

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		102	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		112	61 - 148
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	25.1		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	25.5		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	29.7		ug/L		119	56 - 134
1,2-Dibromoethane	25.0	25.1		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 120
2-Butanone (MEK)	125	136		ug/L		109	57 - 140
2-Hexanone	125	143		ug/L		115	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	132		ug/L		106	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromodichloromethane	25.0	25.9		ug/L		104	80 - 122
Bromoform	25.0	25.0		ug/L		100	61 - 132
Bromomethane	25.0	21.8		ug/L		87	55 - 144
Carbon disulfide	25.0	26.1		ug/L		104	59 - 134
Carbon tetrachloride	25.0	28.2		ug/L		113	72 - 134
Chlorobenzene	25.0	24.9		ug/L		100	80 - 120
Chloroethane	25.0	21.8		ug/L		87	69 - 136
Chloroform	25.0	24.0		ug/L		96	73 - 127
Chloromethane	25.0	23.0		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	74 - 124
Cyclohexane	25.0	26.7		ug/L		107	59 - 135
Dibromochloromethane	25.0	26.8		ug/L		107	75 - 125
Dichlorodifluoromethane	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123
Isopropylbenzene	25.0	27.3		ug/L		109	77 - 122
Methyl acetate	50.0	47.4		ug/L		95	74 - 133
Methyl tert-butyl ether	25.0	26.4		ug/L		105	77 - 120
Methylcyclohexane	25.0	27.3		ug/L		109	68 - 134

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

Lab Sample ID: LCS 480-463938/5
Matrix: Water
Analysis Batch: 463938

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.9		ug/L		99	75 - 124
Styrene	25.0	25.4		ug/L		102	80 - 120
Tetrachloroethene	25.0	26.6		ug/L		107	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	28.8		ug/L		115	80 - 120
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	26.3		ug/L		105	62 - 150
Vinyl chloride	25.0	23.9		ug/L		96	65 - 133
Xylenes, Total	50.0	49.2		ug/L		98	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: MB 480-463939/7
Matrix: Water
Analysis Batch: 463939

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/20/19 23:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/20/19 23:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/20/19 23:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/20/19 23:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/20/19 23:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/20/19 23:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/20/19 23:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/20/19 23:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/20/19 23:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/20/19 23:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/20/19 23:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/20/19 23:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/20/19 23:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/20/19 23:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/20/19 23:19	1
2-Hexanone	ND		5.0	1.2	ug/L			03/20/19 23:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/20/19 23:19	1
Acetone	ND		10	3.0	ug/L			03/20/19 23:19	1
Benzene	ND		1.0	0.41	ug/L			03/20/19 23:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/20/19 23:19	1
Bromoform	ND		1.0	0.26	ug/L			03/20/19 23:19	1
Bromomethane	ND		1.0	0.69	ug/L			03/20/19 23:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/20/19 23:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/20/19 23:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/20/19 23:19	1
Chloroethane	ND		1.0	0.32	ug/L			03/20/19 23:19	1

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

Lab Sample ID: MB 480-463939/7
Matrix: Water
Analysis Batch: 463939

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			03/20/19 23:19	1
Chloromethane	ND		1.0	0.35	ug/L			03/20/19 23:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/20/19 23:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/20/19 23:19	1
Cyclohexane	ND		1.0	0.18	ug/L			03/20/19 23:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/20/19 23:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/20/19 23:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/20/19 23:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/20/19 23:19	1
Methyl acetate	ND		2.5	1.3	ug/L			03/20/19 23:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/20/19 23:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/20/19 23:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/20/19 23:19	1
Styrene	ND		1.0	0.73	ug/L			03/20/19 23:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/20/19 23:19	1
Toluene	ND		1.0	0.51	ug/L			03/20/19 23:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/20/19 23:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/20/19 23:19	1
Trichloroethene	ND		1.0	0.46	ug/L			03/20/19 23:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/20/19 23:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/20/19 23:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/20/19 23:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*03/20/19 23:19*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*03/20/19 23:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/20/19 23:19*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*03/20/19 23:19*	*1*

Lab Sample ID: LCS 480-463939/5
Matrix: Water
Analysis Batch: 463939

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	25.5		ug/L		102	61 - 148
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	23.8		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	24.2		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.5		ug/L		106	56 - 134
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	21.5		ug/L		86	75 - 120
1,2-Dichloropropane	25.0	24.3		ug/L		97	76 - 120
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120

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

Lab Sample ID: LCS 480-463939/5
Matrix: Water
Analysis Batch: 463939

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	109		ug/L		87	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	103		ug/L		83	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	24.9		ug/L		99	80 - 122
Bromoform	25.0	25.5		ug/L		102	61 - 132
Bromomethane	25.0	23.0		ug/L		92	55 - 144
Carbon disulfide	25.0	25.5		ug/L		102	59 - 134
Carbon tetrachloride	25.0	26.1		ug/L		104	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Chloroethane	25.0	24.1		ug/L		96	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	19.7		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	74 - 124
Cyclohexane	25.0	23.8		ug/L		95	59 - 135
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	19.7		ug/L		79	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Isopropylbenzene	25.0	28.2		ug/L		113	77 - 122
Methyl acetate	50.0	42.4		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		97	77 - 120
Methylcyclohexane	25.0	24.5		ug/L		98	68 - 134
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	25.7		ug/L		103	80 - 120
Tetrachloroethene	25.0	23.6		ug/L		95	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	80 - 120
Trichloroethene	25.0	26.0		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	26.9		ug/L		108	62 - 150
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133
Xylenes, Total	50.0	49.7		ug/L		99	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: 480-150568-10 MS
Matrix: Ground Water
Analysis Batch: 463939

Client Sample ID: BCC Area C RFI-31_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	252		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	246		ug/L		98	76 - 120

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

Lab Sample ID: 480-150568-10 MS
Matrix: Ground Water
Analysis Batch: 463939

Client Sample ID: BCC Area C RFI-31_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	243		ug/L		97	61 - 148
1,1,2-Trichloroethane	ND		250	233		ug/L		93	76 - 122
1,1-Dichloroethane	ND		250	233		ug/L		93	77 - 120
1,1-Dichloroethene	ND		250	238		ug/L		95	66 - 127
1,2,4-Trichlorobenzene	22		250	283		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	254		ug/L		102	56 - 134
1,2-Dibromoethane	ND		250	254		ug/L		102	77 - 120
1,2-Dichlorobenzene	ND		250	244		ug/L		98	80 - 124
1,2-Dichloroethane	ND		250	224		ug/L		89	75 - 120
1,2-Dichloropropane	ND		250	243		ug/L		97	76 - 120
1,3-Dichlorobenzene	ND		250	246		ug/L		99	77 - 120
1,4-Dichlorobenzene	ND		250	236		ug/L		95	78 - 124
2-Butanone (MEK)	ND		1250	1100		ug/L		88	57 - 140
2-Hexanone	ND		1250	1080		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	1170		ug/L		94	71 - 125
Acetone	ND		1250	988		ug/L		79	56 - 142
Benzene	ND		250	237		ug/L		95	71 - 124
Bromodichloromethane	ND		250	237		ug/L		95	80 - 122
Bromoform	ND		250	249		ug/L		100	61 - 132
Bromomethane	ND		250	202		ug/L		81	55 - 144
Carbon disulfide	ND		250	222		ug/L		89	59 - 134
Carbon tetrachloride	ND		250	254		ug/L		102	72 - 134
Chlorobenzene	ND		250	236		ug/L		95	80 - 120
Chloroethane	ND		250	215		ug/L		86	69 - 136
Chloroform	ND		250	230		ug/L		92	73 - 127
Chloromethane	ND		250	178		ug/L		71	68 - 124
cis-1,2-Dichloroethene	ND		250	230		ug/L		92	74 - 124
cis-1,3-Dichloropropene	ND		250	251		ug/L		100	74 - 124
Cyclohexane	ND		250	237		ug/L		95	59 - 135
Dibromochloromethane	ND		250	236		ug/L		94	75 - 125
Dichlorodifluoromethane	ND		250	177		ug/L		71	59 - 135
Ethylbenzene	ND		250	236		ug/L		94	77 - 123
Isopropylbenzene	ND		250	256		ug/L		102	77 - 122
Methyl acetate	ND		500	426		ug/L		85	74 - 133
Methyl tert-butyl ether	ND		250	241		ug/L		96	77 - 120
Methylcyclohexane	ND		250	245		ug/L		98	68 - 134
Methylene Chloride	ND		250	229		ug/L		91	75 - 124
Styrene	ND		250	246		ug/L		98	80 - 120
Tetrachloroethene	ND		250	231		ug/L		92	74 - 122
Toluene	ND		250	227		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		250	238		ug/L		95	73 - 127
trans-1,3-Dichloropropene	ND		250	245		ug/L		98	80 - 120
Trichloroethene	ND		250	254		ug/L		101	74 - 123
Trichlorofluoromethane	ND		250	257		ug/L		103	62 - 150
Vinyl chloride	ND		250	207		ug/L		83	65 - 133
Xylenes, Total	ND		500	479		ug/L		96	76 - 122

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

Lab Sample ID: 480-150568-10 MS
Matrix: Ground Water
Analysis Batch: 463939

Client Sample ID: BCC Area C RFI-31_0320
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-150568-10 MSD
Matrix: Ground Water
Analysis Batch: 463939

Client Sample ID: BCC Area C RFI-31_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	246		ug/L		98	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		250	250		ug/L		100	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	245		ug/L		98	61 - 148	1	20
1,1,2-Trichloroethane	ND		250	241		ug/L		96	76 - 122	3	15
1,1-Dichloroethane	ND		250	235		ug/L		94	77 - 120	1	20
1,1-Dichloroethene	ND		250	240		ug/L		96	66 - 127	1	16
1,2,4-Trichlorobenzene	22		250	289		ug/L		107	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		250	252		ug/L		101	56 - 134	1	15
1,2-Dibromoethane	ND		250	247		ug/L		99	77 - 120	3	15
1,2-Dichlorobenzene	ND		250	251		ug/L		100	80 - 124	3	20
1,2-Dichloroethane	ND		250	220		ug/L		88	75 - 120	2	20
1,2-Dichloropropane	ND		250	246		ug/L		98	76 - 120	1	20
1,3-Dichlorobenzene	ND		250	250		ug/L		100	77 - 120	1	20
1,4-Dichlorobenzene	ND		250	244		ug/L		97	78 - 124	3	20
2-Butanone (MEK)	ND		1250	1090		ug/L		87	57 - 140	1	20
2-Hexanone	ND		1250	1110		ug/L		89	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1210		ug/L		96	71 - 125	3	35
Acetone	ND		1250	997		ug/L		80	56 - 142	1	15
Benzene	ND		250	241		ug/L		97	71 - 124	2	13
Bromodichloromethane	ND		250	246		ug/L		98	80 - 122	4	15
Bromoform	ND		250	251		ug/L		100	61 - 132	1	15
Bromomethane	ND		250	209		ug/L		84	55 - 144	3	15
Carbon disulfide	ND		250	231		ug/L		92	59 - 134	4	15
Carbon tetrachloride	ND		250	253		ug/L		101	72 - 134	1	15
Chlorobenzene	ND		250	241		ug/L		96	80 - 120	2	25
Chloroethane	ND		250	218		ug/L		87	69 - 136	2	15
Chloroform	ND		250	233		ug/L		93	73 - 127	1	20
Chloromethane	ND		250	185		ug/L		74	68 - 124	4	15
cis-1,2-Dichloroethene	ND		250	237		ug/L		95	74 - 124	3	15
cis-1,3-Dichloropropene	ND		250	259		ug/L		103	74 - 124	3	15
Cyclohexane	ND		250	232		ug/L		93	59 - 135	2	20
Dibromochloromethane	ND		250	249		ug/L		100	75 - 125	5	15
Dichlorodifluoromethane	ND		250	180		ug/L		72	59 - 135	2	20
Ethylbenzene	ND		250	242		ug/L		97	77 - 123	3	15
Isopropylbenzene	ND		250	267		ug/L		107	77 - 122	4	20
Methyl acetate	ND		500	429		ug/L		86	74 - 133	1	20
Methyl tert-butyl ether	ND		250	242		ug/L		97	77 - 120	0	37
Methylcyclohexane	ND		250	239		ug/L		96	68 - 134	2	20

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

Lab Sample ID: 480-150568-10 MSD
Matrix: Ground Water
Analysis Batch: 463939

Client Sample ID: BCC Area C RFI-31_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		250	228		ug/L		91	75 - 124	0	15
Styrene	ND		250	254		ug/L		102	80 - 120	3	20
Tetrachloroethene	ND		250	238		ug/L		95	74 - 122	3	20
Toluene	ND		250	241		ug/L		96	80 - 122	6	15
trans-1,2-Dichloroethene	ND		250	245		ug/L		98	73 - 127	3	20
trans-1,3-Dichloropropene	ND		250	250		ug/L		100	80 - 120	2	15
Trichloroethene	ND		250	259		ug/L		103	74 - 123	2	16
Trichlorofluoromethane	ND		250	260		ug/L		104	62 - 150	1	20
Vinyl chloride	ND		250	215		ug/L		86	65 - 133	4	15
Xylenes, Total	ND		500	496		ug/L		99	76 - 122	3	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: MB 480-464158/7
Matrix: Water
Analysis Batch: 464158

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/21/19 21:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/21/19 21:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/21/19 21:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/21/19 21:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/21/19 21:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/21/19 21:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/21/19 21:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/21/19 21:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/21/19 21:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/21/19 21:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/21/19 21:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/21/19 21:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/21/19 21:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/21/19 21:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/21/19 21:39	1
2-Hexanone	ND		5.0	1.2	ug/L			03/21/19 21:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/21/19 21:39	1
Acetone	ND		10	3.0	ug/L			03/21/19 21:39	1
Benzene	ND		1.0	0.41	ug/L			03/21/19 21:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/21/19 21:39	1
Bromoform	ND		1.0	0.26	ug/L			03/21/19 21:39	1
Bromomethane	ND		1.0	0.69	ug/L			03/21/19 21:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/21/19 21:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/21/19 21:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/21/19 21:39	1
Chloroethane	ND		1.0	0.32	ug/L			03/21/19 21:39	1

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

Lab Sample ID: MB 480-464158/7
Matrix: Water
Analysis Batch: 464158

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			03/21/19 21:39	1
Chloromethane	ND		1.0	0.35	ug/L			03/21/19 21:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/21/19 21:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/21/19 21:39	1
Cyclohexane	ND		1.0	0.18	ug/L			03/21/19 21:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/21/19 21:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/21/19 21:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/21/19 21:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/21/19 21:39	1
Methyl acetate	ND		2.5	1.3	ug/L			03/21/19 21:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/21/19 21:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/21/19 21:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/21/19 21:39	1
Styrene	ND		1.0	0.73	ug/L			03/21/19 21:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/21/19 21:39	1
Toluene	ND		1.0	0.51	ug/L			03/21/19 21:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/21/19 21:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/21/19 21:39	1
Trichloroethene	ND		1.0	0.46	ug/L			03/21/19 21:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/21/19 21:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/21/19 21:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/21/19 21:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*03/21/19 21:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/21/19 21:39*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/21/19 21:39*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*03/21/19 21:39*	*1*

Lab Sample ID: LCS 480-464158/5
Matrix: Water
Analysis Batch: 464158

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.6		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	26.8		ug/L		107	61 - 148
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	76 - 122
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.8		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	29.0		ug/L		116	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120

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

Lab Sample ID: LCS 480-464158/5
Matrix: Water
Analysis Batch: 464158

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	125	132		ug/L		105	57 - 140
2-Hexanone	125	139		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	132		ug/L		105	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		102	80 - 122
Bromoform	25.0	25.4		ug/L		102	61 - 132
Bromomethane	25.0	21.4		ug/L		85	55 - 144
Carbon disulfide	25.0	25.5		ug/L		102	59 - 134
Carbon tetrachloride	25.0	28.7		ug/L		115	72 - 134
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120
Chloroethane	25.0	22.3		ug/L		89	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	21.3		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	74 - 124
Cyclohexane	25.0	26.8		ug/L		107	59 - 135
Dibromochloromethane	25.0	26.8		ug/L		107	75 - 125
Dichlorodifluoromethane	25.0	21.2		ug/L		85	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
Methyl acetate	50.0	46.5		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	25.8		ug/L		103	77 - 120
Methylcyclohexane	25.0	26.2		ug/L		105	68 - 134
Methylene Chloride	25.0	24.1		ug/L		96	75 - 124
Styrene	25.0	25.2		ug/L		101	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	28.3		ug/L		113	80 - 120
Trichloroethene	25.0	25.4		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	26.3		ug/L		105	62 - 150
Vinyl chloride	25.0	24.1		ug/L		96	65 - 133
Xylenes, Total	50.0	47.4		ug/L		95	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-150568-5 MS
Matrix: Ground Water
Analysis Batch: 464158

Client Sample ID: BCC Area C MW-C04_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	256		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	250		ug/L		100	76 - 120

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

Lab Sample ID: 480-150568-5 MS
Matrix: Ground Water
Analysis Batch: 464158

Client Sample ID: BCC Area C MW-C04_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	271		ug/L		108	61 - 148
1,1,2-Trichloroethane	ND		250	236		ug/L		95	76 - 122
1,1-Dichloroethane	ND		250	239		ug/L		96	77 - 120
1,1-Dichloroethene	ND		250	246		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	ND		250	239		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	294		ug/L		118	56 - 134
1,2-Dibromoethane	ND		250	246		ug/L		98	77 - 120
1,2-Dichlorobenzene	ND		250	247		ug/L		99	80 - 124
1,2-Dichloroethane	ND		250	241		ug/L		96	75 - 120
1,2-Dichloropropane	ND		250	233		ug/L		93	76 - 120
1,3-Dichlorobenzene	25		250	265		ug/L		96	77 - 120
1,4-Dichlorobenzene	49		250	279		ug/L		92	78 - 124
2-Butanone (MEK)	ND		1250	1250		ug/L		100	57 - 140
2-Hexanone	ND		1250	1360		ug/L		109	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	1320		ug/L		106	71 - 125
Acetone	ND		1250	1230		ug/L		98	56 - 142
Benzene	ND		250	238		ug/L		95	71 - 124
Bromodichloromethane	ND		250	239		ug/L		96	80 - 122
Bromoform	ND		250	224		ug/L		90	61 - 132
Bromomethane	ND		250	200		ug/L		80	55 - 144
Carbon disulfide	ND		250	236		ug/L		94	59 - 134
Carbon tetrachloride	ND		250	276		ug/L		111	72 - 134
Chlorobenzene	330	F1	250	521	F1	ug/L		78	80 - 120
Chloroethane	ND		250	204		ug/L		82	69 - 136
Chloroform	ND		250	235		ug/L		94	73 - 127
Chloromethane	ND		250	197		ug/L		79	68 - 124
cis-1,2-Dichloroethene	ND		250	241		ug/L		96	74 - 124
cis-1,3-Dichloropropene	ND		250	250		ug/L		100	74 - 124
Cyclohexane	ND		250	268		ug/L		107	59 - 135
Dibromochloromethane	ND		250	247		ug/L		99	75 - 125
Dichlorodifluoromethane	ND		250	190		ug/L		76	59 - 135
Ethylbenzene	ND		250	242		ug/L		97	77 - 123
Isopropylbenzene	ND		250	247		ug/L		99	77 - 122
Methyl acetate	ND		500	470		ug/L		94	74 - 133
Methyl tert-butyl ether	ND		250	251		ug/L		100	77 - 120
Methylcyclohexane	ND		250	255		ug/L		102	68 - 134
Methylene Chloride	ND		250	234		ug/L		94	75 - 124
Styrene	ND		250	249		ug/L		100	80 - 120
Tetrachloroethene	ND		250	251		ug/L		100	74 - 122
Toluene	ND		250	240		ug/L		96	80 - 122
trans-1,2-Dichloroethene	ND		250	249		ug/L		100	73 - 127
trans-1,3-Dichloropropene	ND		250	258		ug/L		103	80 - 120
Trichloroethene	ND		250	239		ug/L		95	74 - 123
Trichlorofluoromethane	ND		250	243		ug/L		97	62 - 150
Vinyl chloride	ND		250	216		ug/L		86	65 - 133
Xylenes, Total	ND		500	466		ug/L		93	76 - 122

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

Lab Sample ID: 480-150568-5 MS
Matrix: Ground Water
Analysis Batch: 464158

Client Sample ID: BCC Area C MW-C04_0320
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: 480-150568-5 MSD
Matrix: Ground Water
Analysis Batch: 464158

Client Sample ID: BCC Area C MW-C04_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	257		ug/L		103	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		250	247		ug/L		99	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	266		ug/L		106	61 - 148	2	20
1,1,2-Trichloroethane	ND		250	239		ug/L		96	76 - 122	1	15
1,1-Dichloroethane	ND		250	244		ug/L		98	77 - 120	2	20
1,1-Dichloroethene	ND		250	249		ug/L		100	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		250	241		ug/L		96	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		250	291		ug/L		116	56 - 134	1	15
1,2-Dibromoethane	ND		250	244		ug/L		97	77 - 120	1	15
1,2-Dichlorobenzene	ND		250	251		ug/L		100	80 - 124	2	20
1,2-Dichloroethane	ND		250	245		ug/L		98	75 - 120	2	20
1,2-Dichloropropane	ND		250	242		ug/L		97	76 - 120	3	20
1,3-Dichlorobenzene	25		250	262		ug/L		95	77 - 120	1	20
1,4-Dichlorobenzene	49		250	274		ug/L		90	78 - 124	2	20
2-Butanone (MEK)	ND		1250	1280		ug/L		102	57 - 140	2	20
2-Hexanone	ND		1250	1370		ug/L		110	65 - 127	0	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1340		ug/L		107	71 - 125	1	35
Acetone	ND		1250	1270		ug/L		102	56 - 142	3	15
Benzene	ND		250	239		ug/L		96	71 - 124	0	13
Bromodichloromethane	ND		250	249		ug/L		100	80 - 122	4	15
Bromoform	ND		250	242		ug/L		97	61 - 132	8	15
Bromomethane	ND		250	208		ug/L		83	55 - 144	4	15
Carbon disulfide	ND		250	237		ug/L		95	59 - 134	0	15
Carbon tetrachloride	ND		250	281		ug/L		113	72 - 134	2	15
Chlorobenzene	330	F1	250	518	F1	ug/L		77	80 - 120	0	25
Chloroethane	ND		250	210		ug/L		84	69 - 136	2	15
Chloroform	ND		250	235		ug/L		94	73 - 127	0	20
Chloromethane	ND		250	201		ug/L		80	68 - 124	2	15
cis-1,2-Dichloroethene	ND		250	238		ug/L		95	74 - 124	1	15
cis-1,3-Dichloropropene	ND		250	251		ug/L		100	74 - 124	0	15
Cyclohexane	ND		250	263		ug/L		105	59 - 135	2	20
Dibromochloromethane	ND		250	253		ug/L		101	75 - 125	2	15
Dichlorodifluoromethane	ND		250	192		ug/L		77	59 - 135	1	20
Ethylbenzene	ND		250	247		ug/L		99	77 - 123	2	15
Isopropylbenzene	ND		250	253		ug/L		101	77 - 122	2	20
Methyl acetate	ND		500	462		ug/L		92	74 - 133	2	20
Methyl tert-butyl ether	ND		250	248		ug/L		99	77 - 120	1	37
Methylcyclohexane	ND		250	248		ug/L		99	68 - 134	3	20

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

Lab Sample ID: 480-150568-5 MSD
Matrix: Ground Water
Analysis Batch: 464158

Client Sample ID: BCC Area C MW-C04_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		250	237		ug/L		95	75 - 124	1	15
Styrene	ND		250	250		ug/L		100	80 - 120	1	20
Tetrachloroethene	ND		250	255		ug/L		102	74 - 122	2	20
Toluene	ND		250	240		ug/L		96	80 - 122	0	15
trans-1,2-Dichloroethene	ND		250	255		ug/L		102	73 - 127	2	20
trans-1,3-Dichloropropene	ND		250	272		ug/L		109	80 - 120	5	15
Trichloroethene	ND		250	236		ug/L		94	74 - 123	1	16
Trichlorofluoromethane	ND		250	242		ug/L		97	62 - 150	0	20
Vinyl chloride	ND		250	224		ug/L		89	65 - 133	3	15
Xylenes, Total	ND		500	470		ug/L		94	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: MB 480-464196/7
Matrix: Water
Analysis Batch: 464196

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/22/19 11:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/22/19 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/22/19 11:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/22/19 11:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/22/19 11:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/22/19 11:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/22/19 11:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/22/19 11:01	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/22/19 11:01	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/22/19 11:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/22/19 11:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/22/19 11:01	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/22/19 11:01	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/22/19 11:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/22/19 11:01	1
2-Hexanone	ND		5.0	1.2	ug/L			03/22/19 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/22/19 11:01	1
Acetone	ND		10	3.0	ug/L			03/22/19 11:01	1
Benzene	ND		1.0	0.41	ug/L			03/22/19 11:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/22/19 11:01	1
Bromoform	ND		1.0	0.26	ug/L			03/22/19 11:01	1
Bromomethane	ND		1.0	0.69	ug/L			03/22/19 11:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/22/19 11:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/22/19 11:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/22/19 11:01	1
Chloroethane	ND		1.0	0.32	ug/L			03/22/19 11:01	1

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

Lab Sample ID: MB 480-464196/7
Matrix: Water
Analysis Batch: 464196

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			03/22/19 11:01	1
Chloromethane	ND		1.0	0.35	ug/L			03/22/19 11:01	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/22/19 11:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/22/19 11:01	1
Cyclohexane	ND		1.0	0.18	ug/L			03/22/19 11:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/22/19 11:01	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/22/19 11:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/22/19 11:01	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/22/19 11:01	1
Methyl acetate	ND		2.5	1.3	ug/L			03/22/19 11:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/22/19 11:01	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/22/19 11:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/22/19 11:01	1
Styrene	ND		1.0	0.73	ug/L			03/22/19 11:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/22/19 11:01	1
Toluene	ND		1.0	0.51	ug/L			03/22/19 11:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/22/19 11:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/22/19 11:01	1
Trichloroethene	ND		1.0	0.46	ug/L			03/22/19 11:01	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/22/19 11:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/22/19 11:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/22/19 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*03/22/19 11:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*03/22/19 11:01*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/22/19 11:01*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*03/22/19 11:01*	*1*

Lab Sample ID: LCS 480-464196/5
Matrix: Water
Analysis Batch: 464196

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	27.2		ug/L		109	61 - 148
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	76 - 122
1,1-Dichloroethane	25.0	25.8		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	25.2		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	29.5		ug/L		118	56 - 134
1,2-Dibromoethane	25.0	26.1		ug/L		104	77 - 120
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120

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

Lab Sample ID: LCS 480-464196/5
Matrix: Water
Analysis Batch: 464196

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	125	138		ug/L		110	57 - 140
2-Hexanone	125	146		ug/L		117	65 - 127
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	71 - 125
Acetone	125	145		ug/L		116	56 - 142
Benzene	25.0	24.9		ug/L		99	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Bromoform	25.0	26.1		ug/L		105	61 - 132
Bromomethane	25.0	21.4		ug/L		86	55 - 144
Carbon disulfide	25.0	25.8		ug/L		103	59 - 134
Carbon tetrachloride	25.0	29.3		ug/L		117	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	80 - 120
Chloroethane	25.0	21.5		ug/L		86	69 - 136
Chloroform	25.0	24.9		ug/L		100	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	74 - 124
Cyclohexane	25.0	27.2		ug/L		109	59 - 135
Dibromochloromethane	25.0	27.2		ug/L		109	75 - 125
Dichlorodifluoromethane	25.0	19.4		ug/L		78	59 - 135
Ethylbenzene	25.0	25.8		ug/L		103	77 - 123
Isopropylbenzene	25.0	26.0		ug/L		104	77 - 122
Methyl acetate	50.0	48.2		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	26.1		ug/L		104	77 - 120
Methylcyclohexane	25.0	26.6		ug/L		106	68 - 134
Methylene Chloride	25.0	23.8		ug/L		95	75 - 124
Styrene	25.0	26.6		ug/L		106	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	25.5		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	28.9		ug/L		115	80 - 120
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 150
Vinyl chloride	25.0	22.4		ug/L		89	65 - 133
Xylenes, Total	50.0	49.0		ug/L		98	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: MB 480-464673/7
Matrix: Water
Analysis Batch: 464673

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/19 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/19 10:59	1

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

Lab Sample ID: MB 480-464673/7
Matrix: Water
Analysis Batch: 464673

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/26/19 10:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/19 10:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/19 10:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/19 10:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/19 10:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/19 10:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/19 10:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/26/19 10:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/19 10:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/19 10:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/19 10:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/19 10:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/26/19 10:59	1
2-Hexanone	ND		5.0	1.2	ug/L			03/26/19 10:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/26/19 10:59	1
Acetone	ND		10	3.0	ug/L			03/26/19 10:59	1
Benzene	ND		1.0	0.41	ug/L			03/26/19 10:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/19 10:59	1
Bromoform	ND		1.0	0.26	ug/L			03/26/19 10:59	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/19 10:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/26/19 10:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/19 10:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/19 10:59	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/19 10:59	1
Chloroform	ND		1.0	0.34	ug/L			03/26/19 10:59	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/19 10:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/19 10:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/19 10:59	1
Cyclohexane	ND		1.0	0.18	ug/L			03/26/19 10:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/19 10:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/19 10:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/19 10:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/19 10:59	1
Methyl acetate	ND		2.5	1.3	ug/L			03/26/19 10:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/26/19 10:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/26/19 10:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/19 10:59	1
Styrene	ND		1.0	0.73	ug/L			03/26/19 10:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/19 10:59	1
Toluene	ND		1.0	0.51	ug/L			03/26/19 10:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/19 10:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/19 10:59	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/19 10:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/19 10:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/19 10:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/19 10:59	1

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

Lab Sample ID: MB 480-464673/7
Matrix: Water
Analysis Batch: 464673

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		03/26/19 10:59	1
4-Bromofluorobenzene (Surr)	93		73 - 120		03/26/19 10:59	1
Toluene-d8 (Surr)	100		80 - 120		03/26/19 10:59	1
Dibromofluoromethane (Surr)	108		75 - 123		03/26/19 10:59	1

Lab Sample ID: LCS 480-464673/5
Matrix: Water
Analysis Batch: 464673

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	29.0		ug/L		116	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.4		ug/L		117	61 - 148
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	27.3		ug/L		109	77 - 120
1,1-Dichloroethene	25.0	27.2		ug/L		109	66 - 127
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	30.2		ug/L		121	56 - 134
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	26.9		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	26.7		ug/L		107	76 - 120
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2-Butanone (MEK)	125	145		ug/L		116	57 - 140
2-Hexanone	125	155		ug/L		124	65 - 127
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	71 - 125
Acetone	125	160		ug/L		128	56 - 142
Benzene	25.0	26.1		ug/L		104	71 - 124
Bromodichloromethane	25.0	27.9		ug/L		112	80 - 122
Bromoform	25.0	28.9		ug/L		116	61 - 132
Bromomethane	25.0	23.4		ug/L		93	55 - 144
Carbon disulfide	25.0	28.2		ug/L		113	59 - 134
Carbon tetrachloride	25.0	32.3		ug/L		129	72 - 134
Chlorobenzene	25.0	26.2		ug/L		105	80 - 120
Chloroethane	25.0	23.2		ug/L		93	69 - 136
Chloroform	25.0	25.8		ug/L		103	73 - 127
Chloromethane	25.0	25.3		ug/L		101	68 - 124
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	29.0		ug/L		116	74 - 124
Cyclohexane	25.0	29.7		ug/L		119	59 - 135
Dibromochloromethane	25.0	28.9		ug/L		115	75 - 125
Dichlorodifluoromethane	25.0	27.5		ug/L		110	59 - 135
Ethylbenzene	25.0	26.8		ug/L		107	77 - 123
Isopropylbenzene	25.0	26.9		ug/L		107	77 - 122
Methyl acetate	50.0	51.7		ug/L		103	74 - 133
Methyl tert-butyl ether	25.0	27.7		ug/L		111	77 - 120
Methylcyclohexane	25.0	28.9		ug/L		116	68 - 134

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

Lab Sample ID: LCS 480-464673/5
Matrix: Water
Analysis Batch: 464673

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	26.1		ug/L		105	75 - 124
Styrene	25.0	27.5		ug/L		110	80 - 120
Tetrachloroethene	25.0	27.3		ug/L		109	74 - 122
Toluene	25.0	26.5		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	27.7		ug/L		111	73 - 127
trans-1,3-Dichloropropene	25.0	30.9	*	ug/L		124	80 - 120
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	26.1		ug/L		105	62 - 150
Vinyl chloride	25.0	26.3		ug/L		105	65 - 133
Xylenes, Total	50.0	51.4		ug/L		103	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: 480-150568-1 MS
Matrix: Ground Water
Analysis Batch: 464673

Client Sample ID: BCC Area C MW-CO1 MS_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		100	113		ug/L		113	73 - 126
1,1,2,2-Tetrachloroethane	ND		100	107		ug/L		107	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	119		ug/L		119	61 - 148
1,1,2-Trichloroethane	ND		100	104		ug/L		104	76 - 122
1,1-Dichloroethane	ND		100	109		ug/L		109	77 - 120
1,1-Dichloroethene	ND		100	109		ug/L		109	66 - 127
1,2,4-Trichlorobenzene	ND		100	103		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	ND		100	125		ug/L		125	56 - 134
1,2-Dibromoethane	ND		100	107		ug/L		107	77 - 120
1,2-Dichlorobenzene	ND		100	108		ug/L		108	80 - 124
1,2-Dichloroethane	ND		100	106		ug/L		106	75 - 120
1,2-Dichloropropane	ND		100	107		ug/L		107	76 - 120
1,3-Dichlorobenzene	ND		100	107		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		100	104		ug/L		104	78 - 124
2-Butanone (MEK)	ND		500	549		ug/L		110	57 - 140
2-Hexanone	ND		500	577		ug/L		115	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		500	552		ug/L		110	71 - 125
Acetone	ND		500	526		ug/L		105	56 - 142
Benzene	ND		100	105		ug/L		105	71 - 124
Bromodichloromethane	ND		100	108		ug/L		108	80 - 122
Bromoform	ND		100	109		ug/L		109	61 - 132
Bromomethane	ND		100	94.5		ug/L		95	55 - 144
Carbon disulfide	ND		100	108		ug/L		108	59 - 134
Carbon tetrachloride	ND		100	130		ug/L		130	72 - 134
Chlorobenzene	ND		100	103		ug/L		103	80 - 120
Chloroethane	ND		100	93.2		ug/L		93	69 - 136

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

Lab Sample ID: 480-150568-1 MS
Matrix: Ground Water
Analysis Batch: 464673

Client Sample ID: BCC Area C MW-CO1 MS_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	ND		100	102		ug/L		102	73 - 127
Chloromethane	ND		100	104		ug/L		104	68 - 124
cis-1,2-Dichloroethene	ND		100	103		ug/L		103	74 - 124
cis-1,3-Dichloropropene	ND		100	113		ug/L		113	74 - 124
Cyclohexane	ND		100	122		ug/L		122	59 - 135
Dibromochloromethane	ND		100	112		ug/L		112	75 - 125
Dichlorodifluoromethane	ND		100	110		ug/L		110	59 - 135
Ethylbenzene	ND		100	107		ug/L		107	77 - 123
Isopropylbenzene	ND		100	110		ug/L		110	77 - 122
Methyl acetate	ND		200	204		ug/L		102	74 - 133
Methyl tert-butyl ether	ND		100	111		ug/L		111	77 - 120
Methylcyclohexane	ND		100	116		ug/L		116	68 - 134
Methylene Chloride	ND		100	102		ug/L		102	75 - 124
Styrene	ND		100	102		ug/L		102	80 - 120
Tetrachloroethene	ND		100	110		ug/L		110	74 - 122
Toluene	ND		100	104		ug/L		104	80 - 122
trans-1,2-Dichloroethene	ND		100	113		ug/L		113	73 - 127
trans-1,3-Dichloropropene	ND		100	117		ug/L		117	80 - 120
Trichloroethene	ND		100	107		ug/L		107	74 - 123
Trichlorofluoromethane	ND		100	109		ug/L		109	62 - 150
Vinyl chloride	ND		100	107		ug/L		107	65 - 133
Xylenes, Total	ND		200	205		ug/L		103	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: 480-150568-1 MSD
Matrix: Ground Water
Analysis Batch: 464673

Client Sample ID: BCC Area C MW-CO1 MSD_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		100	115		ug/L		115	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		100	103		ug/L		103	76 - 120	3	15
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		100	116		ug/L		116	61 - 148	3	20
1,1,2-Trichloroethane	ND		100	104		ug/L		104	76 - 122	0	15
1,1-Dichloroethane	ND		100	105		ug/L		105	77 - 120	4	20
1,1-Dichloroethene	ND		100	105		ug/L		105	66 - 127	4	16
1,2,4-Trichlorobenzene	ND		100	102		ug/L		102	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		100	129		ug/L		129	56 - 134	3	15
1,2-Dibromoethane	ND		100	106		ug/L		106	77 - 120	1	15
1,2-Dichlorobenzene	ND		100	104		ug/L		104	80 - 124	3	20
1,2-Dichloroethane	ND		100	105		ug/L		105	75 - 120	1	20
1,2-Dichloropropane	ND		100	107		ug/L		107	76 - 120	0	20
1,3-Dichlorobenzene	ND		100	104		ug/L		104	77 - 120	3	20
1,4-Dichlorobenzene	ND		100	101		ug/L		101	78 - 124	2	20

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

Lab Sample ID: 480-150568-1 MSD
Matrix: Ground Water
Analysis Batch: 464673

Client Sample ID: BCC Area C MW-CO1 MSD_0320
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		500	541		ug/L		108	57 - 140	1	20
2-Hexanone	ND		500	589		ug/L		118	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		500	573		ug/L		115	71 - 125	4	35
Acetone	ND		500	511		ug/L		102	56 - 142	3	15
Benzene	ND		100	101		ug/L		101	71 - 124	3	13
Bromodichloromethane	ND		100	110		ug/L		110	80 - 122	2	15
Bromoform	ND		100	110		ug/L		110	61 - 132	1	15
Bromomethane	ND		100	88.8		ug/L		89	55 - 144	6	15
Carbon disulfide	ND		100	104		ug/L		104	59 - 134	4	15
Carbon tetrachloride	ND		100	124		ug/L		124	72 - 134	5	15
Chlorobenzene	ND		100	103		ug/L		103	80 - 120	0	25
Chloroethane	ND		100	90.8		ug/L		91	69 - 136	3	15
Chloroform	ND		100	102		ug/L		102	73 - 127	0	20
Chloromethane	ND		100	100		ug/L		100	68 - 124	4	15
cis-1,2-Dichloroethene	ND		100	100		ug/L		100	74 - 124	3	15
cis-1,3-Dichloropropene	ND		100	114		ug/L		114	74 - 124	1	15
Cyclohexane	ND		100	115		ug/L		115	59 - 135	6	20
Dibromochloromethane	ND		100	116		ug/L		116	75 - 125	4	15
Dichlorodifluoromethane	ND		100	107		ug/L		107	59 - 135	3	20
Ethylbenzene	ND		100	105		ug/L		105	77 - 123	1	15
Isopropylbenzene	ND		100	107		ug/L		107	77 - 122	3	20
Methyl acetate	ND		200	203		ug/L		102	74 - 133	1	20
Methyl tert-butyl ether	ND		100	109		ug/L		109	77 - 120	1	37
Methylcyclohexane	ND		100	111		ug/L		111	68 - 134	4	20
Methylene Chloride	ND		100	101		ug/L		101	75 - 124	1	15
Styrene	ND		100	101		ug/L		101	80 - 120	1	20
Tetrachloroethene	ND		100	109		ug/L		109	74 - 122	1	20
Toluene	ND		100	104		ug/L		104	80 - 122	0	15
trans-1,2-Dichloroethene	ND		100	106		ug/L		106	73 - 127	6	20
trans-1,3-Dichloropropene	ND		100	122	F1	ug/L		122	80 - 120	4	15
Trichloroethene	ND		100	103		ug/L		103	74 - 123	4	16
Trichlorofluoromethane	ND		100	106		ug/L		106	62 - 150	3	20
Vinyl chloride	ND		100	101		ug/L		101	65 - 133	5	15
Xylenes, Total	ND		200	201		ug/L		100	76 - 122	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

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

Lab Sample ID: MB 480-464095/1-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/22/19 12:25	1

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

Lab Sample ID: MB 480-464095/1-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/21/19 14:07	03/22/19 12:25	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/21/19 14:07	03/22/19 12:25	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/21/19 14:07	03/22/19 12:25	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/22/19 12:25	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/21/19 14:07	03/22/19 12:25	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/22/19 12:25	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/21/19 14:07	03/22/19 12:25	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/21/19 14:07	03/22/19 12:25	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/21/19 14:07	03/22/19 12:25	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/21/19 14:07	03/22/19 12:25	1
2-Nitroaniline	ND		10	0.42	ug/L		03/21/19 14:07	03/22/19 12:25	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/21/19 14:07	03/22/19 12:25	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/21/19 14:07	03/22/19 12:25	1
3-Nitroaniline	ND		10	0.48	ug/L		03/21/19 14:07	03/22/19 12:25	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Methylphenol	ND		10	0.36	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Nitroaniline	ND		10	0.25	ug/L		03/21/19 14:07	03/22/19 12:25	1
4-Nitrophenol	ND		10	1.5	ug/L		03/21/19 14:07	03/22/19 12:25	1
Acenaphthene	ND		5.0	0.41	ug/L		03/21/19 14:07	03/22/19 12:25	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/21/19 14:07	03/22/19 12:25	1
Acetophenone	ND		5.0	0.54	ug/L		03/21/19 14:07	03/22/19 12:25	1
Aniline	ND		10	0.61	ug/L		03/21/19 14:07	03/22/19 12:25	1
Anthracene	ND		5.0	0.28	ug/L		03/21/19 14:07	03/22/19 12:25	1
Atrazine	ND		5.0	0.46	ug/L		03/21/19 14:07	03/22/19 12:25	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/21/19 14:07	03/22/19 12:25	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/22/19 12:25	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/22/19 12:25	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/22/19 12:25	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/21/19 14:07	03/22/19 12:25	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/21/19 14:07	03/22/19 12:25	1
Biphenyl	ND		5.0	0.65	ug/L		03/21/19 14:07	03/22/19 12:25	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/21/19 14:07	03/22/19 12:25	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/21/19 14:07	03/22/19 12:25	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/21/19 14:07	03/22/19 12:25	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/21/19 14:07	03/22/19 12:25	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/21/19 14:07	03/22/19 12:25	1
Caprolactam	ND		5.0	2.2	ug/L		03/21/19 14:07	03/22/19 12:25	1
Carbazole	ND		5.0	0.30	ug/L		03/21/19 14:07	03/22/19 12:25	1
Chrysene	ND		5.0	0.33	ug/L		03/21/19 14:07	03/22/19 12:25	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/21/19 14:07	03/22/19 12:25	1
Dibenzofuran	ND		10	0.51	ug/L		03/21/19 14:07	03/22/19 12:25	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/21/19 14:07	03/22/19 12:25	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/21/19 14:07	03/22/19 12:25	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		03/21/19 14:07	03/22/19 12:25	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/21/19 14:07	03/22/19 12:25	1

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

Lab Sample ID: MB 480-464095/1-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		5.0	0.40	ug/L		03/21/19 14:07	03/22/19 12:25	1
Fluorene	ND		5.0	0.36	ug/L		03/21/19 14:07	03/22/19 12:25	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/21/19 14:07	03/22/19 12:25	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/21/19 14:07	03/22/19 12:25	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/21/19 14:07	03/22/19 12:25	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/21/19 14:07	03/22/19 12:25	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/21/19 14:07	03/22/19 12:25	1
Isophorone	ND		5.0	0.43	ug/L		03/21/19 14:07	03/22/19 12:25	1
Naphthalene	ND		5.0	0.76	ug/L		03/21/19 14:07	03/22/19 12:25	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/21/19 14:07	03/22/19 12:25	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/21/19 14:07	03/22/19 12:25	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/21/19 14:07	03/22/19 12:25	1
Pentachlorophenol	ND		10	2.2	ug/L		03/21/19 14:07	03/22/19 12:25	1
Phenanthrene	ND		5.0	0.44	ug/L		03/21/19 14:07	03/22/19 12:25	1
Phenol	ND		5.0	0.39	ug/L		03/21/19 14:07	03/22/19 12:25	1
Pyrene	ND		5.0	0.34	ug/L		03/21/19 14:07	03/22/19 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*41 - 120*	*03/21/19 14:07*	*03/22/19 12:25*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*03/21/19 14:07*	*03/22/19 12:25*	*1*
2-Fluorophenol	*68*		*35 - 120*	*03/21/19 14:07*	*03/22/19 12:25*	*1*
Nitrobenzene-d5	*76*		*46 - 120*	*03/21/19 14:07*	*03/22/19 12:25*	*1*
Phenol-d5	*49*		*22 - 120*	*03/21/19 14:07*	*03/22/19 12:25*	*1*
p-Terphenyl-d14	*100*		*59 - 136*	*03/21/19 14:07*	*03/22/19 12:25*	*1*

Lab Sample ID: LCS 480-464095/2-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	33.8		ug/L		106	65 - 126
2,4,6-Trichlorophenol	32.0	34.3		ug/L		107	64 - 120
2,4-Dichlorophenol	32.0	30.9		ug/L		97	63 - 120
2,4-Dimethylphenol	32.0	30.3		ug/L		95	47 - 120
2,4-Dinitrophenol	64.0	60.2		ug/L		94	31 - 137
2,4-Dinitrotoluene	32.0	34.8		ug/L		109	69 - 120
2,6-Dinitrotoluene	32.0	33.9		ug/L		106	68 - 120
2-Chloronaphthalene	32.0	30.1		ug/L		94	58 - 120
2-Chlorophenol	32.0	28.3		ug/L		89	48 - 120
2-Methylnaphthalene	32.0	31.4		ug/L		98	59 - 120
2-Methylphenol	32.0	28.9		ug/L		90	39 - 120
2-Nitroaniline	32.0	32.8		ug/L		102	54 - 127
2-Nitrophenol	32.0	31.4		ug/L		98	52 - 125
3,3'-Dichlorobenzidine	64.0	74.7		ug/L		117	49 - 135
3-Nitroaniline	32.0	38.5		ug/L		120	51 - 120
4,6-Dinitro-2-methylphenol	64.0	72.7		ug/L		114	46 - 136
4-Bromophenyl phenyl ether	32.0	32.2		ug/L		101	65 - 120
4-Chloro-3-methylphenol	32.0	32.5		ug/L		102	61 - 123

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

Lab Sample ID: LCS 480-464095/2-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	32.0	21.4		ug/L		67	30 - 120
4-Chlorophenyl phenyl ether	32.0	30.9		ug/L		97	62 - 120
4-Methylphenol	32.0	29.2		ug/L		91	29 - 131
4-Nitroaniline	32.0	34.2		ug/L		107	65 - 120
4-Nitrophenol	64.0	54.9		ug/L		86	45 - 120
Acenaphthene	32.0	31.3		ug/L		98	60 - 120
Acenaphthylene	32.0	31.2		ug/L		98	63 - 120
Acetophenone	32.0	31.2		ug/L		97	45 - 120
Aniline	32.0	15.5		ug/L		48	12 - 120
Anthracene	32.0	34.0		ug/L		106	67 - 120
Atrazine	64.0	74.6		ug/L		117	71 - 130
Benzaldehyde	64.0	57.4		ug/L		90	10 - 140
Benzo(a)anthracene	32.0	32.8		ug/L		103	70 - 121
Benzo(a)pyrene	32.0	33.2		ug/L		104	60 - 123
Benzo(b)fluoranthene	32.0	34.7		ug/L		108	66 - 126
Benzo(g,h,i)perylene	32.0	33.4		ug/L		104	66 - 150
Benzo(k)fluoranthene	32.0	32.7		ug/L		102	65 - 124
Biphenyl	32.0	30.8		ug/L		96	59 - 120
bis (2-chloroisopropyl) ether	32.0	27.2		ug/L		85	21 - 136
Bis(2-chloroethoxy)methane	32.0	30.4		ug/L		95	50 - 128
Bis(2-chloroethyl)ether	32.0	27.4		ug/L		86	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	33.8		ug/L		106	63 - 139
Butyl benzyl phthalate	32.0	32.1		ug/L		100	70 - 129
Caprolactam	64.0	24.2		ug/L		38	22 - 120
Carbazole	32.0	36.8		ug/L		115	66 - 123
Chrysene	32.0	32.8		ug/L		102	69 - 120
Dibenz(a,h)anthracene	32.0	34.3		ug/L		107	65 - 135
Dibenzofuran	32.0	31.0		ug/L		97	66 - 120
Diethyl phthalate	32.0	32.9		ug/L		103	59 - 127
Dimethyl phthalate	32.0	33.7		ug/L		105	68 - 120
Di-n-butyl phthalate	32.0	34.5		ug/L		108	69 - 131
Di-n-octyl phthalate	32.0	34.4		ug/L		108	63 - 140
Fluoranthene	32.0	34.0		ug/L		106	69 - 126
Fluorene	32.0	31.2		ug/L		97	66 - 120
Hexachlorobenzene	32.0	33.7		ug/L		105	61 - 120
Hexachlorobutadiene	32.0	26.6		ug/L		83	35 - 120
Hexachlorocyclopentadiene	32.0	24.2		ug/L		76	31 - 120
Hexachloroethane	32.0	25.6		ug/L		80	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	33.2		ug/L		104	69 - 146
Isophorone	32.0	31.8		ug/L		99	55 - 120
Naphthalene	32.0	28.9		ug/L		90	57 - 120
Nitrobenzene	32.0	31.3		ug/L		98	53 - 123
N-Nitrosodi-n-propylamine	32.0	31.8		ug/L		99	32 - 140
N-Nitrosodiphenylamine	32.0	32.2		ug/L		101	61 - 120
Pentachlorophenol	64.0	56.3		ug/L		88	29 - 136
Phenanthrene	32.0	33.0		ug/L		103	68 - 120
Phenol	32.0	19.2		ug/L		60	17 - 120
Pyrene	32.0	33.4		ug/L		104	70 - 125

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

Lab Sample ID: LCS 480-464095/2-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464095

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*41 - 120*
2-Fluorobiphenyl	*98*		*48 - 120*
2-Fluorophenol	*73*		*35 - 120*
Nitrobenzene-d5	*97*		*46 - 120*
Phenol-d5	*58*		*22 - 120*
p-Terphenyl-d14	*103*		*59 - 136*

Lab Sample ID: LCSD 480-464095/3-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	32.0	34.5		ug/L		108	65 - 126	2	18
2,4,6-Trichlorophenol	32.0	33.4		ug/L		104	64 - 120	3	19
2,4-Dichlorophenol	32.0	30.5		ug/L		95	63 - 120	1	19
2,4-Dimethylphenol	32.0	28.7		ug/L		90	47 - 120	5	42
2,4-Dinitrophenol	64.0	62.1		ug/L		97	31 - 137	3	22
2,4-Dinitrotoluene	32.0	33.9		ug/L		106	69 - 120	2	20
2,6-Dinitrotoluene	32.0	33.0		ug/L		103	68 - 120	3	15
2-Chloronaphthalene	32.0	30.5		ug/L		95	58 - 120	1	21
2-Chlorophenol	32.0	27.4		ug/L		86	48 - 120	3	25
2-Methylnaphthalene	32.0	29.5		ug/L		92	59 - 120	6	21
2-Methylphenol	32.0	27.5		ug/L		86	39 - 120	5	27
2-Nitroaniline	32.0	31.7		ug/L		99	54 - 127	3	15
2-Nitrophenol	32.0	30.7		ug/L		96	52 - 125	2	18
3,3'-Dichlorobenzidine	64.0	74.8		ug/L		117	49 - 135	0	25
3-Nitroaniline	32.0	36.9		ug/L		115	51 - 120	4	19
4,6-Dinitro-2-methylphenol	64.0	73.9		ug/L		115	46 - 136	2	15
4-Bromophenyl phenyl ether	32.0	32.7		ug/L		102	65 - 120	2	15
4-Chloro-3-methylphenol	32.0	30.5		ug/L		95	61 - 123	7	27
4-Chloroaniline	32.0	23.6		ug/L		74	30 - 120	10	22
4-Chlorophenyl phenyl ether	32.0	31.0		ug/L		97	62 - 120	0	16
4-Methylphenol	32.0	27.3		ug/L		85	29 - 131	7	24
4-Nitroaniline	32.0	34.6		ug/L		108	65 - 120	1	24
4-Nitrophenol	64.0	51.7		ug/L		81	45 - 120	6	48
Acenaphthene	32.0	30.9		ug/L		96	60 - 120	1	24
Acenaphthylene	32.0	31.5		ug/L		98	63 - 120	1	18
Acetophenone	32.0	29.3		ug/L		92	45 - 120	6	20
Aniline	32.0	17.7		ug/L		55	12 - 120	13	30
Anthracene	32.0	34.6		ug/L		108	67 - 120	2	15
Atrazine	64.0	74.0		ug/L		116	71 - 130	1	20
Benzaldehyde	64.0	55.6		ug/L		87	10 - 140	3	20
Benzo(a)anthracene	32.0	32.1		ug/L		100	70 - 121	2	15
Benzo(a)pyrene	32.0	32.8		ug/L		102	60 - 123	1	15
Benzo(b)fluoranthene	32.0	32.3		ug/L		101	66 - 126	7	15
Benzo(g,h,i)perylene	32.0	32.6		ug/L		102	66 - 150	2	15
Benzo(k)fluoranthene	32.0	30.5		ug/L		95	65 - 124	7	22
Biphenyl	32.0	30.7		ug/L		96	59 - 120	0	20

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

Lab Sample ID: LCSD 480-464095/3-A
Matrix: Water
Analysis Batch: 464251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	32.0	26.9		ug/L		84	21 - 136	1	24
Bis(2-chloroethoxy)methane	32.0	30.4		ug/L		95	50 - 128	0	17
Bis(2-chloroethyl)ether	32.0	26.7		ug/L		83	44 - 120	3	21
Bis(2-ethylhexyl) phthalate	32.0	35.6		ug/L		111	63 - 139	5	15
Butyl benzyl phthalate	32.0	33.5		ug/L		105	70 - 129	4	16
Caprolactam	64.0	22.7		ug/L		35	22 - 120	7	20
Carbazole	32.0	37.9		ug/L		119	66 - 123	3	20
Chrysene	32.0	31.8		ug/L		99	69 - 120	3	15
Dibenz(a,h)anthracene	32.0	33.9		ug/L		106	65 - 135	1	15
Dibenzofuran	32.0	31.0		ug/L		97	66 - 120	0	15
Diethyl phthalate	32.0	33.0		ug/L		103	59 - 127	0	15
Dimethyl phthalate	32.0	33.7		ug/L		105	68 - 120	0	15
Di-n-butyl phthalate	32.0	36.1		ug/L		113	69 - 131	5	15
Di-n-octyl phthalate	32.0	35.1		ug/L		110	63 - 140	2	16
Fluoranthene	32.0	34.1		ug/L		107	69 - 126	0	15
Fluorene	32.0	32.1		ug/L		100	66 - 120	3	15
Hexachlorobenzene	32.0	33.8		ug/L		105	61 - 120	0	15
Hexachlorobutadiene	32.0	25.5		ug/L		80	35 - 120	4	44
Hexachlorocyclopentadiene	32.0	24.6		ug/L		77	31 - 120	2	49
Hexachloroethane	32.0	24.5		ug/L		77	43 - 120	4	46
Indeno(1,2,3-cd)pyrene	32.0	33.2		ug/L		104	69 - 146	0	15
Isophorone	32.0	30.7		ug/L		96	55 - 120	4	17
Naphthalene	32.0	28.9		ug/L		90	57 - 120	0	29
Nitrobenzene	32.0	28.9		ug/L		90	53 - 123	8	24
N-Nitrosodi-n-propylamine	32.0	29.2		ug/L		91	32 - 140	9	31
N-Nitrosodiphenylamine	32.0	32.5		ug/L		101	61 - 120	1	15
Pentachlorophenol	64.0	59.2		ug/L		92	29 - 136	5	37
Phenanthrene	32.0	33.2		ug/L		104	68 - 120	1	15
Phenol	32.0	18.0		ug/L		56	17 - 120	6	34
Pyrene	32.0	33.9		ug/L		106	70 - 125	2	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*41 - 120*
2-Fluorobiphenyl	*96*		*48 - 120*
2-Fluorophenol	*70*		*35 - 120*
Nitrobenzene-d5	*87*		*46 - 120*
Phenol-d5	*54*		*22 - 120*
p-Terphenyl-d14	*99*		*59 - 136*

Lab Sample ID: MB 480-464647/1-A
Matrix: Water
Analysis Batch: 464933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		03/26/19 07:50	03/27/19 15:16	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		03/26/19 07:50	03/27/19 15:16	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		03/26/19 07:50	03/27/19 15:16	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		03/26/19 07:50	03/27/19 15:16	1

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

Lab Sample ID: MB 480-464647/1-A
Matrix: Water
Analysis Batch: 464933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		03/26/19 07:50	03/27/19 15:16	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		03/26/19 07:50	03/27/19 15:16	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 15:16	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		03/26/19 07:50	03/27/19 15:16	1
2-Chlorophenol	ND		5.0	0.53	ug/L		03/26/19 07:50	03/27/19 15:16	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		03/26/19 07:50	03/27/19 15:16	1
2-Methylphenol	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 15:16	1
2-Nitroaniline	ND		10	0.42	ug/L		03/26/19 07:50	03/27/19 15:16	1
2-Nitrophenol	ND		5.0	0.48	ug/L		03/26/19 07:50	03/27/19 15:16	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 15:16	1
3-Nitroaniline	ND		10	0.48	ug/L		03/26/19 07:50	03/27/19 15:16	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Chloroaniline	ND		5.0	0.59	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Methylphenol	ND		10	0.36	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Nitroaniline	ND		10	0.25	ug/L		03/26/19 07:50	03/27/19 15:16	1
4-Nitrophenol	ND		10	1.5	ug/L		03/26/19 07:50	03/27/19 15:16	1
Acenaphthene	ND		5.0	0.41	ug/L		03/26/19 07:50	03/27/19 15:16	1
Acenaphthylene	ND		5.0	0.38	ug/L		03/26/19 07:50	03/27/19 15:16	1
Acetophenone	ND		5.0	0.54	ug/L		03/26/19 07:50	03/27/19 15:16	1
Aniline	ND		10	0.61	ug/L		03/26/19 07:50	03/27/19 15:16	1
Anthracene	ND		5.0	0.28	ug/L		03/26/19 07:50	03/27/19 15:16	1
Atrazine	ND		5.0	0.46	ug/L		03/26/19 07:50	03/27/19 15:16	1
Benzaldehyde	ND		5.0	0.27	ug/L		03/26/19 07:50	03/27/19 15:16	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		03/26/19 07:50	03/27/19 15:16	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		03/26/19 07:50	03/27/19 15:16	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		03/26/19 07:50	03/27/19 15:16	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		03/26/19 07:50	03/27/19 15:16	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		03/26/19 07:50	03/27/19 15:16	1
Biphenyl	ND		5.0	0.65	ug/L		03/26/19 07:50	03/27/19 15:16	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		03/26/19 07:50	03/27/19 15:16	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		03/26/19 07:50	03/27/19 15:16	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 15:16	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		03/26/19 07:50	03/27/19 15:16	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		03/26/19 07:50	03/27/19 15:16	1
Caprolactam	ND		5.0	2.2	ug/L		03/26/19 07:50	03/27/19 15:16	1
Carbazole	ND		5.0	0.30	ug/L		03/26/19 07:50	03/27/19 15:16	1
Chrysene	ND		5.0	0.33	ug/L		03/26/19 07:50	03/27/19 15:16	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		03/26/19 07:50	03/27/19 15:16	1
Dibenzofuran	ND		10	0.51	ug/L		03/26/19 07:50	03/27/19 15:16	1
Diethyl phthalate	ND		5.0	0.22	ug/L		03/26/19 07:50	03/27/19 15:16	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		03/26/19 07:50	03/27/19 15:16	1
Di-n-butyl phthalate	0.331	J	5.0	0.31	ug/L		03/26/19 07:50	03/27/19 15:16	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		03/26/19 07:50	03/27/19 15:16	1
Fluoranthene	ND		5.0	0.40	ug/L		03/26/19 07:50	03/27/19 15:16	1
Fluorene	ND		5.0	0.36	ug/L		03/26/19 07:50	03/27/19 15:16	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		03/26/19 07:50	03/27/19 15:16	1

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

Lab Sample ID: MB 480-464647/1-A
Matrix: Water
Analysis Batch: 464933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		5.0	0.68	ug/L		03/26/19 07:50	03/27/19 15:16	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		03/26/19 07:50	03/27/19 15:16	1
Hexachloroethane	ND		5.0	0.59	ug/L		03/26/19 07:50	03/27/19 15:16	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		03/26/19 07:50	03/27/19 15:16	1
Isophorone	ND		5.0	0.43	ug/L		03/26/19 07:50	03/27/19 15:16	1
Naphthalene	ND		5.0	0.76	ug/L		03/26/19 07:50	03/27/19 15:16	1
Nitrobenzene	ND		5.0	0.29	ug/L		03/26/19 07:50	03/27/19 15:16	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		03/26/19 07:50	03/27/19 15:16	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		03/26/19 07:50	03/27/19 15:16	1
Pentachlorophenol	ND		10	2.2	ug/L		03/26/19 07:50	03/27/19 15:16	1
Phenanthrene	ND		5.0	0.44	ug/L		03/26/19 07:50	03/27/19 15:16	1
Phenol	ND		5.0	0.39	ug/L		03/26/19 07:50	03/27/19 15:16	1
Pyrene	ND		5.0	0.34	ug/L		03/26/19 07:50	03/27/19 15:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*41 - 120*	*03/26/19 07:50*	*03/27/19 15:16*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*03/26/19 07:50*	*03/27/19 15:16*	*1*
2-Fluorophenol	*68*		*35 - 120*	*03/26/19 07:50*	*03/27/19 15:16*	*1*
Nitrobenzene-d5	*85*		*46 - 120*	*03/26/19 07:50*	*03/27/19 15:16*	*1*
Phenol-d5	*53*		*22 - 120*	*03/26/19 07:50*	*03/27/19 15:16*	*1*
p-Terphenyl-d14	*107*		*59 - 136*	*03/26/19 07:50*	*03/27/19 15:16*	*1*

Lab Sample ID: LCS 480-464647/2-A
Matrix: Water
Analysis Batch: 464933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	36.7		ug/L		115	65 - 126
2,4,6-Trichlorophenol	32.0	35.8		ug/L		112	64 - 120
2,4-Dichlorophenol	32.0	33.3		ug/L		104	63 - 120
2,4-Dimethylphenol	32.0	29.9		ug/L		94	47 - 120
2,4-Dinitrophenol	64.0	69.6		ug/L		109	31 - 137
2,4-Dinitrotoluene	32.0	37.1		ug/L		116	69 - 120
2,6-Dinitrotoluene	32.0	35.3		ug/L		110	68 - 120
2-Chloronaphthalene	32.0	31.2		ug/L		97	58 - 120
2-Chlorophenol	32.0	30.6		ug/L		96	48 - 120
2-Methylnaphthalene	32.0	29.7		ug/L		93	59 - 120
2-Methylphenol	32.0	30.4		ug/L		95	39 - 120
2-Nitroaniline	32.0	33.9		ug/L		106	54 - 127
2-Nitrophenol	32.0	31.1		ug/L		97	52 - 125
3,3'-Dichlorobenzidine	64.0	74.8		ug/L		117	49 - 135
3-Nitroaniline	32.0	40.6	*	ug/L		127	51 - 120
4,6-Dinitro-2-methylphenol	64.0	80.2		ug/L		125	46 - 136
4-Bromophenyl phenyl ether	32.0	34.0		ug/L		106	65 - 120
4-Chloro-3-methylphenol	32.0	32.1		ug/L		100	61 - 123
4-Chloroaniline	32.0	23.1		ug/L		72	30 - 120
4-Chlorophenyl phenyl ether	32.0	34.7		ug/L		108	62 - 120
4-Methylphenol	32.0	29.4		ug/L		92	29 - 131

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

Lab Sample ID: LCS 480-464647/2-A
Matrix: Water
Analysis Batch: 464933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	32.0	40.2	*	ug/L		126	65 - 120
4-Nitrophenol	64.0	57.5		ug/L		90	45 - 120
Acenaphthene	32.0	32.3		ug/L		101	60 - 120
Acenaphthylene	32.0	33.6		ug/L		105	63 - 120
Acetophenone	32.0	31.9		ug/L		100	45 - 120
Aniline	32.0	22.4		ug/L		70	12 - 120
Anthracene	32.0	36.4		ug/L		114	67 - 120
Atrazine	64.0	81.8		ug/L		128	71 - 130
Benzaldehyde	64.0	60.7		ug/L		95	10 - 140
Benzo(a)anthracene	32.0	32.9		ug/L		103	70 - 121
Benzo(a)pyrene	32.0	35.2		ug/L		110	60 - 123
Benzo(b)fluoranthene	32.0	34.6		ug/L		108	66 - 126
Benzo(g,h,i)perylene	32.0	35.6		ug/L		111	66 - 150
Benzo(k)fluoranthene	32.0	33.1		ug/L		104	65 - 124
Biphenyl	32.0	32.0		ug/L		100	59 - 120
bis (2-chloroisopropyl) ether	32.0	29.6		ug/L		92	21 - 136
Bis(2-chloroethoxy)methane	32.0	31.8		ug/L		99	50 - 128
Bis(2-chloroethyl)ether	32.0	31.4		ug/L		98	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.0		ug/L		106	63 - 139
Butyl benzyl phthalate	32.0	33.6		ug/L		105	70 - 129
Caprolactam	64.0	25.1		ug/L		39	22 - 120
Carbazole	32.0	36.4		ug/L		114	66 - 123
Chrysene	32.0	33.9		ug/L		106	69 - 120
Dibenz(a,h)anthracene	32.0	35.8		ug/L		112	65 - 135
Dibenzofuran	32.0	34.2		ug/L		107	66 - 120
Diethyl phthalate	32.0	35.3		ug/L		110	59 - 127
Dimethyl phthalate	32.0	35.4		ug/L		111	68 - 120
Di-n-butyl phthalate	32.0	36.0		ug/L		112	69 - 131
Di-n-octyl phthalate	32.0	35.1		ug/L		110	63 - 140
Fluoranthene	32.0	35.5		ug/L		111	69 - 126
Fluorene	32.0	35.9		ug/L		112	66 - 120
Hexachlorobenzene	32.0	34.7		ug/L		108	61 - 120
Hexachlorobutadiene	32.0	24.9		ug/L		78	35 - 120
Hexachlorocyclopentadiene	32.0	22.6		ug/L		71	31 - 120
Hexachloroethane	32.0	25.2		ug/L		79	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	35.3		ug/L		110	69 - 146
Isophorone	32.0	32.1		ug/L		100	55 - 120
Naphthalene	32.0	29.8		ug/L		93	57 - 120
Nitrobenzene	32.0	30.6		ug/L		96	53 - 123
N-Nitrosodi-n-propylamine	32.0	31.7		ug/L		99	32 - 140
N-Nitrosodiphenylamine	32.0	33.8		ug/L		106	61 - 120
Pentachlorophenol	64.0	63.8		ug/L		100	29 - 136
Phenanthrene	32.0	34.7		ug/L		108	68 - 120
Phenol	32.0	20.3		ug/L		63	17 - 120
Pyrene	32.0	34.4		ug/L		107	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*108*		*41 - 120*

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

Lab Sample ID: LCS 480-464647/2-A
Matrix: Water
Analysis Batch: 464933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464647

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*105*		*48 - 120*
2-Fluorophenol	*78*		*35 - 120*
Nitrobenzene-d5	*97*		*46 - 120*
Phenol-d5	*61*		*22 - 120*
p-Terphenyl-d14	*108*		*59 - 136*

Lab Sample ID: 480-150568-1 MS
Matrix: Ground Water
Analysis Batch: 464933

Client Sample ID: BCC Area C MW-CO1 MS_0320
Prep Type: Total/NA
Prep Batch: 464647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	38.0		ug/L		119	65 - 126
2,4,6-Trichlorophenol	ND		32.0	37.4		ug/L		117	64 - 120
2,4-Dichlorophenol	ND		32.0	32.4		ug/L		101	48 - 132
2,4-Dimethylphenol	ND		32.0	30.2		ug/L		94	39 - 130
2,4-Dinitrophenol	ND		64.0	74.8		ug/L		117	21 - 150
2,4-Dinitrotoluene	ND		32.0	38.2		ug/L		119	54 - 138
2,6-Dinitrotoluene	ND		32.0	37.1		ug/L		116	17 - 150
2-Chloronaphthalene	ND		32.0	31.9		ug/L		100	52 - 124
2-Chlorophenol	ND		32.0	30.5		ug/L		95	48 - 120
2-Methylnaphthalene	ND		32.0	31.0		ug/L		97	34 - 140
2-Methylphenol	ND		32.0	30.3		ug/L		95	46 - 120
2-Nitroaniline	ND		32.0	33.6		ug/L		105	44 - 136
2-Nitrophenol	ND		32.0	32.9		ug/L		103	38 - 141
3,3'-Dichlorobenzidine	ND	F2	64.0	22.5		ug/L		35	10 - 150
3-Nitroaniline	ND	F2 *	32.0	17.9		ug/L		56	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	85.1		ug/L		133	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	34.8		ug/L		109	63 - 126
4-Chloro-3-methylphenol	ND		32.0	32.7		ug/L		102	64 - 127
4-Chloroaniline	ND		32.0	14.4		ug/L		45	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	34.5		ug/L		108	61 - 120
4-Methylphenol	ND		32.0	30.6		ug/L		96	36 - 120
4-Nitroaniline	ND	F2 *	32.0	23.1		ug/L		72	32 - 150
4-Nitrophenol	ND		64.0	63.9		ug/L		100	23 - 132
Acenaphthene	ND		32.0	32.2		ug/L		101	48 - 120
Acenaphthylene	ND		32.0	33.9		ug/L		106	63 - 120
Acetophenone	ND		32.0	32.3		ug/L		101	53 - 120
Aniline	ND		32.0	19.0		ug/L		59	32 - 120
Anthracene	ND		32.0	36.1		ug/L		113	65 - 122
Atrazine	ND		64.0	82.0		ug/L		128	50 - 150
Benzaldehyde	ND		64.0	59.0		ug/L		92	10 - 150
Benzo(a)anthracene	0.55	J	32.0	33.0		ug/L		101	43 - 124
Benzo(a)pyrene	0.72	J	32.0	34.1		ug/L		104	23 - 125
Benzo(b)fluoranthene	0.83	J	32.0	34.9		ug/L		106	27 - 127
Benzo(g,h,i)perylene	0.53	J	32.0	33.7		ug/L		104	16 - 147
Benzo(k)fluoranthene	ND		32.0	33.2		ug/L		104	20 - 124
Biphenyl	ND		32.0	32.6		ug/L		102	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	27.6		ug/L		86	28 - 121

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

Lab Sample ID: 480-150568-1 MS — **Client Sample ID: BCC Area C MW-CO1 MS_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 464933 — **Prep Batch: 464647**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	ND		32.0	31.5		ug/L		98	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	34.0		ug/L		106	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	31.9		ug/L		100	16 - 150
Butyl benzyl phthalate	ND		32.0	33.7		ug/L		105	51 - 140
Caprolactam	ND		64.0	25.6		ug/L		40	10 - 120
Carbazole	ND		32.0	38.8		ug/L		121	16 - 148
Chrysene	0.59	J	32.0	33.1		ug/L		101	44 - 122
Dibenz(a,h)anthracene	ND		32.0	34.4		ug/L		108	16 - 139
Dibenzofuran	ND		32.0	34.3		ug/L		107	60 - 120
Diethyl phthalate	ND		32.0	37.6		ug/L		118	53 - 133
Dimethyl phthalate	ND		32.0	37.2		ug/L		116	59 - 123
Di-n-butyl phthalate	0.50	J B	32.0	36.9		ug/L		114	65 - 129
Di-n-octyl phthalate	ND		32.0	34.4		ug/L		107	16 - 150
Fluoranthene	1.3	J	32.0	36.5		ug/L		110	63 - 129
Fluorene	ND		32.0	36.7		ug/L		115	62 - 120
Hexachlorobenzene	ND		32.0	35.3		ug/L		110	57 - 121
Hexachlorobutadiene	ND		32.0	26.3		ug/L		82	37 - 120
Hexachlorocyclopentadiene	ND		32.0	24.5		ug/L		76	21 - 120
Hexachloroethane	ND		32.0	25.2		ug/L		79	16 - 130
Indeno(1,2,3-cd)pyrene	0.50	J	32.0	34.0		ug/L		105	16 - 140
Isophorone	ND		32.0	32.4		ug/L		101	48 - 133
Naphthalene	ND		32.0	30.7		ug/L		96	45 - 120
Nitrobenzene	ND		32.0	38.6		ug/L		121	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	32.8		ug/L		102	49 - 120
N-Nitrosodiphenylamine	ND		32.0	33.9		ug/L		106	39 - 138
Pentachlorophenol	ND		64.0	73.1		ug/L		114	23 - 149
Phenanthrene	0.76	J	32.0	35.9		ug/L		110	65 - 122
Phenol	ND		32.0	21.6		ug/L		67	16 - 120
Pyrene	1.1	J	32.0	36.4		ug/L		110	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*116*		*41 - 120*
2-Fluorobiphenyl	*104*		*48 - 120*
2-Fluorophenol	*77*		*35 - 120*
Nitrobenzene-d5	*99*		*46 - 120*
Phenol-d5	*63*		*22 - 120*
p-Terphenyl-d14	*84*		*59 - 136*

Lab Sample ID: 480-150568-1 MSD — **Client Sample ID: BCC Area C MW-CO1 MSD_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 464933 — **Prep Batch: 464647**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	37.7		ug/L		118	65 - 126	1	18
2,4,6-Trichlorophenol	ND		32.0	37.8		ug/L		118	64 - 120	1	19
2,4-Dichlorophenol	ND		32.0	31.5		ug/L		99	48 - 132	3	19
2,4-Dimethylphenol	ND		32.0	28.3		ug/L		88	39 - 130	7	42
2,4-Dinitrophenol	ND		64.0	74.0		ug/L		116	21 - 150	1	22

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

Lab Sample ID: 480-150568-1 MSD — **Client Sample ID: BCC Area C MW-CO1 MSD_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 464933 — **Prep Batch: 464647**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	ND		32.0	36.4		ug/L		114	54 - 138	5	20
2,6-Dinitrotoluene	ND		32.0	36.0		ug/L		112	17 - 150	3	15
2-Chloronaphthalene	ND		32.0	31.6		ug/L		99	52 - 124	1	21
2-Chlorophenol	ND		32.0	29.5		ug/L		92	48 - 120	3	25
2-Methylnaphthalene	ND		32.0	29.8		ug/L		93	34 - 140	4	21
2-Methylphenol	ND		32.0	28.4		ug/L		89	46 - 120	6	27
2-Nitroaniline	ND		32.0	31.6		ug/L		99	44 - 136	6	15
2-Nitrophenol	ND		32.0	30.5		ug/L		95	38 - 141	7	18
3,3'-Dichlorobenzidine	ND	F2	64.0	10.7	F2	ug/L		17	10 - 150	71	25
3-Nitroaniline	ND	F2 *	32.0	10.2	F2	ug/L		32	32 - 150	55	19
4,6-Dinitro-2-methylphenol	ND		64.0	81.2		ug/L		127	38 - 150	5	15
4-Bromophenyl phenyl ether	ND		32.0	33.1		ug/L		103	63 - 126	5	15
4-Chloro-3-methylphenol	ND		32.0	32.1		ug/L		100	64 - 127	2	27
4-Chloroaniline	ND		32.0	11.6		ug/L		36	16 - 124	21	22
4-Chlorophenyl phenyl ether	ND		32.0	33.8		ug/L		106	61 - 120	2	16
4-Methylphenol	ND		32.0	28.7		ug/L		90	36 - 120	6	24
4-Nitroaniline	ND	F2 *	32.0	11.4	F2	ug/L		36	32 - 150	68	24
4-Nitrophenol	ND		64.0	62.6		ug/L		98	23 - 132	2	48
Acenaphthene	ND		32.0	31.8		ug/L		99	48 - 120	1	24
Acenaphthylene	ND		32.0	33.6		ug/L		105	63 - 120	1	18
Acetophenone	ND		32.0	30.5		ug/L		95	53 - 120	6	20
Aniline	ND		32.0	16.0		ug/L		50	32 - 120	17	30
Anthracene	ND		32.0	33.7		ug/L		105	65 - 122	7	15
Atrazine	ND		64.0	77.9		ug/L		122	50 - 150	5	20
Benzaldehyde	ND		64.0	57.1		ug/L		89	10 - 150	3	20
Benzo(a)anthracene	0.55	J	32.0	33.4		ug/L		103	43 - 124	1	15
Benzo(a)pyrene	0.72	J	32.0	32.3		ug/L		99	23 - 125	6	15
Benzo(b)fluoranthene	0.83	J	32.0	33.2		ug/L		101	27 - 127	5	15
Benzo(g,h,i)perylene	0.53	J	32.0	33.1		ug/L		102	16 - 147	2	15
Benzo(k)fluoranthene	ND		32.0	32.1		ug/L		100	20 - 124	3	22
Biphenyl	ND		32.0	33.6		ug/L		105	57 - 120	3	20
bis (2-chloroisopropyl) ether	ND		32.0	26.6		ug/L		83	28 - 121	3	24
Bis(2-chloroethoxy)methane	ND		32.0	31.4		ug/L		98	44 - 128	0	17
Bis(2-chloroethyl)ether	ND		32.0	31.1		ug/L		97	45 - 120	9	21
Bis(2-ethylhexyl) phthalate	ND		32.0	33.0		ug/L		103	16 - 150	4	15
Butyl benzyl phthalate	ND		32.0	34.0		ug/L		106	51 - 140	1	16
Caprolactam	ND		64.0	25.5		ug/L		40	10 - 120	0	20
Carbazole	ND		32.0	36.8		ug/L		115	16 - 148	6	20
Chrysene	0.59	J	32.0	34.2		ug/L		105	44 - 122	4	15
Dibenz(a,h)anthracene	ND		32.0	33.5		ug/L		105	16 - 139	3	15
Dibenzofuran	ND		32.0	33.1		ug/L		103	60 - 120	4	15
Diethyl phthalate	ND		32.0	34.4		ug/L		107	53 - 133	9	15
Dimethyl phthalate	ND		32.0	36.8		ug/L		115	59 - 123	1	15
Di-n-butyl phthalate	0.50	J B	32.0	33.9		ug/L		104	65 - 129	9	15
Di-n-octyl phthalate	ND		32.0	33.3		ug/L		104	16 - 150	3	16
Fluoranthene	1.3	J	32.0	34.7		ug/L		104	63 - 129	5	15
Fluorene	ND		32.0	34.8		ug/L		109	62 - 120	5	15
Hexachlorobenzene	ND		32.0	33.5		ug/L		105	57 - 121	5	15
Hexachlorobutadiene	ND		32.0	25.0		ug/L		78	37 - 120	5	44

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

Lab Sample ID: 480-150568-1 MSD
Matrix: Ground Water
Analysis Batch: 464933

Client Sample ID: BCC Area C MW-CO1 MSD_0320
Prep Type: Total/NA
Prep Batch: 464647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	ND		32.0	24.5		ug/L		77	21 - 120	0	49
Hexachloroethane	ND		32.0	24.2		ug/L		76	16 - 130	4	46
Indeno(1,2,3-cd)pyrene	0.50	J	32.0	33.6		ug/L		103	16 - 140	1	15
Isophorone	ND		32.0	30.1		ug/L		94	48 - 133	7	17
Naphthalene	ND		32.0	29.5		ug/L		92	45 - 120	4	29
Nitrobenzene	ND		32.0	37.9		ug/L		118	45 - 123	2	24
N-Nitrosodi-n-propylamine	ND		32.0	30.8		ug/L		96	49 - 120	6	31
N-Nitrosodiphenylamine	ND		32.0	32.9		ug/L		103	39 - 138	3	15
Pentachlorophenol	ND		64.0	72.4		ug/L		113	23 - 149	1	37
Phenanthrene	0.76	J	32.0	34.7		ug/L		106	65 - 122	3	15
Phenol	ND		32.0	20.4		ug/L		64	16 - 120	6	34
Pyrene	1.1	J	32.0	36.5		ug/L		110	58 - 128	0	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*41 - 120*
2-Fluorobiphenyl	*105*		*48 - 120*
2-Fluorophenol	*73*		*35 - 120*
Nitrobenzene-d5	*92*		*46 - 120*
Phenol-d5	*62*		*22 - 120*
p-Terphenyl-d14	*83*		*59 - 136*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-464032/1-A
Matrix: Water
Analysis Batch: 464479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/22/19 09:28	03/22/19 15:47	1
Antimony	ND		0.020	0.0068	mg/L		03/22/19 09:28	03/22/19 15:47	1
Arsenic	ND		0.015	0.0056	mg/L		03/22/19 09:28	03/22/19 15:47	1
Barium	ND		0.0020	0.00070	mg/L		03/22/19 09:28	03/22/19 15:47	1
Beryllium	ND		0.0020	0.00030	mg/L		03/22/19 09:28	03/22/19 15:47	1
Cadmium	ND		0.0020	0.00050	mg/L		03/22/19 09:28	03/22/19 15:47	1
Calcium	ND		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 15:47	1
Chromium	ND		0.0040	0.0010	mg/L		03/22/19 09:28	03/22/19 15:47	1
Cobalt	ND		0.0040	0.00063	mg/L		03/22/19 09:28	03/22/19 15:47	1
Copper	ND		0.010	0.0016	mg/L		03/22/19 09:28	03/22/19 15:47	1
Iron	ND		0.050	0.019	mg/L		03/22/19 09:28	03/22/19 15:47	1
Lead	ND		0.010	0.0030	mg/L		03/22/19 09:28	03/22/19 15:47	1
Magnesium	ND		0.20	0.043	mg/L		03/22/19 09:28	03/22/19 15:47	1
Manganese	0.00155	J	0.0030	0.00040	mg/L		03/22/19 09:28	03/22/19 15:47	1
Nickel	ND		0.010	0.0013	mg/L		03/22/19 09:28	03/22/19 15:47	1
Potassium	ND		0.50	0.10	mg/L		03/22/19 09:28	03/22/19 15:47	1
Selenium	ND		0.025	0.0087	mg/L		03/22/19 09:28	03/22/19 15:47	1
Silver	ND		0.0060	0.0017	mg/L		03/22/19 09:28	03/22/19 15:47	1
Sodium	ND		1.0	0.32	mg/L		03/22/19 09:28	03/22/19 15:47	1
Thallium	ND		0.020	0.010	mg/L		03/22/19 09:28	03/22/19 15:47	1
Vanadium	ND		0.0050	0.0015	mg/L		03/22/19 09:28	03/22/19 15:47	1

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

Lab Sample ID: MB 480-464032/1-A
Matrix: Water
Analysis Batch: 464479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		03/22/19 09:28	03/22/19 15:47	1

Lab Sample ID: LCS 480-464032/2-A
Matrix: Water
Analysis Batch: 464479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.32		mg/L		93	80 - 120
Antimony	0.200	0.184		mg/L		92	80 - 120
Arsenic	0.200	0.190		mg/L		95	80 - 120
Barium	0.200	0.191		mg/L		96	80 - 120
Beryllium	0.200	0.192		mg/L		96	80 - 120
Cadmium	0.200	0.189		mg/L		95	80 - 120
Calcium	10.0	9.62		mg/L		96	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.200	0.184		mg/L		92	80 - 120
Copper	0.200	0.185		mg/L		92	80 - 120
Iron	10.0	9.33		mg/L		93	80 - 120
Lead	0.200	0.188		mg/L		94	80 - 120
Magnesium	10.0	9.27		mg/L		93	80 - 120
Manganese	0.200	0.188		mg/L		94	80 - 120
Nickel	0.200	0.189		mg/L		94	80 - 120
Potassium	10.0	8.95		mg/L		89	80 - 120
Selenium	0.200	0.199		mg/L		100	80 - 120
Silver	0.0500	0.0482		mg/L		96	80 - 120
Sodium	10.0	9.05		mg/L		90	80 - 120
Thallium	0.200	0.189		mg/L		94	80 - 120
Vanadium	0.200	0.193		mg/L		96	80 - 120
Zinc	0.200	0.193		mg/L		96	80 - 120

Lab Sample ID: MB 480-464795/1-A
Matrix: Water
Analysis Batch: 465389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/28/19 07:40	03/28/19 15:02	1
Antimony	ND		0.020	0.0068	mg/L		03/28/19 07:40	03/28/19 15:02	1
Arsenic	ND		0.015	0.0056	mg/L		03/28/19 07:40	03/28/19 15:02	1
Barium	ND		0.0020	0.00070	mg/L		03/28/19 07:40	03/28/19 15:02	1
Beryllium	ND		0.0020	0.00030	mg/L		03/28/19 07:40	03/28/19 15:02	1
Cadmium	ND		0.0020	0.00050	mg/L		03/28/19 07:40	03/28/19 15:02	1
Calcium	ND		0.50	0.10	mg/L		03/28/19 07:40	03/28/19 15:02	1
Chromium	ND		0.0040	0.0010	mg/L		03/28/19 07:40	03/28/19 15:02	1
Cobalt	ND		0.0040	0.00063	mg/L		03/28/19 07:40	03/28/19 15:02	1
Copper	ND		0.010	0.0016	mg/L		03/28/19 07:40	03/28/19 15:02	1
Iron	ND		0.050	0.019	mg/L		03/28/19 07:40	03/28/19 15:02	1
Lead	ND		0.010	0.0030	mg/L		03/28/19 07:40	03/28/19 15:02	1
Magnesium	ND		0.20	0.043	mg/L		03/28/19 07:40	03/28/19 15:02	1
Manganese	ND		0.0030	0.00040	mg/L		03/28/19 07:40	03/28/19 15:02	1

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

Lab Sample ID: MB 480-464795/1-A
Matrix: Water
Analysis Batch: 465389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010	0.0013	mg/L		03/28/19 07:40	03/28/19 15:02	1
Potassium	ND		0.50	0.10	mg/L		03/28/19 07:40	03/28/19 15:02	1
Selenium	ND		0.025	0.0087	mg/L		03/28/19 07:40	03/28/19 15:02	1
Silver	ND		0.0060	0.0017	mg/L		03/28/19 07:40	03/28/19 15:02	1
Sodium	ND		1.0	0.32	mg/L		03/28/19 07:40	03/28/19 15:02	1
Thallium	ND		0.020	0.010	mg/L		03/28/19 07:40	03/28/19 15:02	1
Vanadium	ND		0.0050	0.0015	mg/L		03/28/19 07:40	03/28/19 15:02	1
Zinc	0.00371	J	0.010	0.0015	mg/L		03/28/19 07:40	03/28/19 15:02	1

Lab Sample ID: LCS 480-464795/2-A
Matrix: Water
Analysis Batch: 465389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.07		mg/L		91	80 - 120
Antimony	0.200	0.188		mg/L		94	80 - 120
Arsenic	0.200	0.194		mg/L		97	80 - 120
Barium	0.200	0.188		mg/L		94	80 - 120
Beryllium	0.200	0.189		mg/L		95	80 - 120
Cadmium	0.200	0.191		mg/L		96	80 - 120
Calcium	10.0	9.31		mg/L		93	80 - 120
Chromium	0.200	0.187		mg/L		93	80 - 120
Cobalt	0.200	0.181		mg/L		91	80 - 120
Copper	0.200	0.186		mg/L		93	80 - 120
Iron	10.0	9.05		mg/L		90	80 - 120
Lead	0.200	0.187		mg/L		93	80 - 120
Magnesium	10.0	9.26		mg/L		93	80 - 120
Manganese	0.200	0.182		mg/L		91	80 - 120
Nickel	0.200	0.187		mg/L		93	80 - 120
Potassium	10.0	9.14		mg/L		91	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Sodium	10.0	9.19		mg/L		92	80 - 120
Thallium	0.200	0.189		mg/L		94	80 - 120
Vanadium	0.200	0.186		mg/L		93	80 - 120
Zinc	0.200	0.192		mg/L		96	80 - 120

Lab Sample ID: LCSD 480-464795/18-A
Matrix: Water
Analysis Batch: 465389

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10.0	9.12		mg/L		91	80 - 120	1	20
Antimony	0.200	0.196		mg/L		98	80 - 120	4	20
Arsenic	0.200	0.198		mg/L		99	80 - 120	2	20
Barium	0.200	0.193		mg/L		97	80 - 120	3	20
Beryllium	0.200	0.190		mg/L		95	80 - 120	0	20
Cadmium	0.200	0.198		mg/L		99	80 - 120	3	20
Calcium	10.0	9.38		mg/L		94	80 - 120	1	20

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

Lab Sample ID: LCSD 480-464795/18-A
Matrix: Water
Analysis Batch: 465389

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.200	0.192		mg/L		96	80 - 120	3	20
Cobalt	0.200	0.186		mg/L		93	80 - 120	2	20
Copper	0.200	0.190		mg/L		95	80 - 120	2	20
Iron	10.0	8.99		mg/L		90	80 - 120	1	20
Lead	0.200	0.190		mg/L		95	80 - 120	2	20
Magnesium	10.0	9.49		mg/L		95	80 - 120	2	20
Manganese	0.200	0.186		mg/L		93	80 - 120	2	20
Nickel	0.200	0.190		mg/L		95	80 - 120	2	20
Potassium	10.0	9.59		mg/L		96	80 - 120	5	20
Selenium	0.200	0.199		mg/L		99	80 - 120	2	20
Silver	0.0500	0.0488		mg/L		98	80 - 120	3	20
Thallium	0.200	0.192		mg/L		96	80 - 120	2	20
Vanadium	0.200	0.190		mg/L		95	80 - 120	2	20
Zinc	0.200	0.197		mg/L		99	80 - 120	3	20

Lab Sample ID: LCSD 480-464795/18-A
Matrix: Water
Analysis Batch: 465676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	10.0	9.61		mg/L		96	80 - 120	4	20

Lab Sample ID: 480-150568-1 MS
Matrix: Ground Water
Analysis Batch: 465389

Client Sample ID: BCC Area C MW-CO1 MS_0320
Prep Type: Total/NA
Prep Batch: 464795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6.1		10.0	16.93		mg/L		108	75 - 125
Antimony	ND		0.200	0.225		mg/L		113	75 - 125
Arsenic	0.015		0.200	0.256		mg/L		121	75 - 125
Barium	0.56	F1	0.200	0.789		mg/L		115	75 - 125
Beryllium	ND		0.200	0.181		mg/L		90	75 - 125
Cadmium	0.0013	J	0.200	0.242		mg/L		120	75 - 125
Calcium	757		10.0	755.5	4	mg/L		-13	75 - 125
Chromium	0.018		0.200	0.194		mg/L		88	75 - 125
Cobalt	0.0087		0.200	0.211		mg/L		101	75 - 125
Copper	0.040		0.200	0.257		mg/L		108	75 - 125
Iron	12.9		10.0	21.58		mg/L		87	75 - 125
Lead	0.061		0.200	0.267		mg/L		103	75 - 125
Magnesium	294		10.0	303.9	4	mg/L		103	75 - 125
Manganese	1.6		0.200	1.78	4	mg/L		75	75 - 125
Nickel	0.015		0.200	0.218		mg/L		102	75 - 125
Potassium	43.9		10.0	58.29	4	mg/L		144	75 - 125
Selenium	ND		0.200	0.239		mg/L		119	75 - 125
Silver	ND	F1	0.0500	0.0642	F1	mg/L		128	75 - 125
Thallium	ND		0.200	0.186		mg/L		93	75 - 125
Vanadium	0.012		0.200	0.198		mg/L		93	75 - 125
Zinc	0.23	B	0.200	0.404		mg/L		85	75 - 125

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

Lab Sample ID: 480-150568-1 MS — **Client Sample ID: BCC Area C MW-CO1 MS_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 465676 — **Prep Batch: 464795**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	9560		10.0	9441	4	mg/L		-1230	75 - 125

Lab Sample ID: 480-150568-1 MSD — **Client Sample ID: BCC Area C MW-CO1 MSD_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 465389 — **Prep Batch: 464795**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6.1		10.0	17.23		mg/L		111	75 - 125	2	20
Antimony	ND		0.200	0.226		mg/L		113	75 - 125	0	20
Arsenic	0.015		0.200	0.257		mg/L		121	75 - 125	1	20
Barium	0.56	F1	0.200	0.812	F1	mg/L		127	75 - 125	3	20
Beryllium	ND		0.200	0.183		mg/L		91	75 - 125	1	20
Cadmium	0.0013	J	0.200	0.245		mg/L		122	75 - 125	1	20
Calcium	757		10.0	761.0	4	mg/L		42	75 - 125	1	20
Chromium	0.018		0.200	0.194		mg/L		88	75 - 125	0	20
Cobalt	0.0087		0.200	0.211		mg/L		101	75 - 125	0	20
Copper	0.040		0.200	0.261		mg/L		111	75 - 125	2	20
Iron	12.9		10.0	21.47		mg/L		86	75 - 125	1	20
Lead	0.061		0.200	0.268		mg/L		103	75 - 125	0	20
Magnesium	294		10.0	300.0	4	mg/L		64	75 - 125	1	20
Manganese	1.6		0.200	1.79	4	mg/L		81	75 - 125	1	20
Nickel	0.015		0.200	0.219		mg/L		102	75 - 125	0	20
Potassium	43.9		10.0	60.50	4	mg/L		166	75 - 125	4	20
Selenium	ND		0.200	0.244		mg/L		122	75 - 125	2	20
Silver	ND	F1	0.0500	0.0634	F1	mg/L		127	75 - 125	1	20
Thallium	ND		0.200	0.189		mg/L		94	75 - 125	1	20
Vanadium	0.012		0.200	0.201		mg/L		94	75 - 125	1	20
Zinc	0.23	B	0.200	0.410		mg/L		88	75 - 125	1	20

Lab Sample ID: 480-150568-1 MSD — **Client Sample ID: BCC Area C MW-CO1 MSD_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 465676 — **Prep Batch: 464795**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	9560		10.0	9421	4	mg/L		-1426	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-464046/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 464124 — **Prep Batch: 464046**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/21/19 11:20	03/21/19 14:45	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-464046/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 464124 — **Prep Batch: 464046**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00683		mg/L		102	80 - 120		

Lab Sample ID: MB 480-465857/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465901 — **Prep Batch: 465857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/02/19 12:30	04/02/19 16:45	1

Lab Sample ID: LCS 480-465857/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465901 — **Prep Batch: 465857**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00693		mg/L		104	80 - 120		

Lab Sample ID: 480-150568-1 MS — **Client Sample ID: BCC Area C MW-CO1 MS_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 465901 — **Prep Batch: 465857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.0016		0.0200	0.0206		mg/L		95	80 - 120		

Lab Sample ID: 480-150568-1 MSD — **Client Sample ID: BCC Area C MW-CO1 MSD_0320**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 465901 — **Prep Batch: 465857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0016		0.0200	0.0205		mg/L		94	80 - 120	1	20

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

GC/MS VOA

Analysis Batch: 463938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	8260C	
MB 480-463938/7	Method Blank	Total/NA	Water	8260C	
LCS 480-463938/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 463939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	8260C	
MB 480-463939/7	Method Blank	Total/NA	Water	8260C	
LCS 480-463939/5	Lab Control Sample	Total/NA	Water	8260C	
480-150568-10 MS	BCC Area C RFI-31_0320	Total/NA	Ground Water	8260C	
480-150568-10 MSD	BCC Area C RFI-31_0320	Total/NA	Ground Water	8260C	

Analysis Batch: 464158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	8260C	
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	8260C	
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	8260C	
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	8260C	
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	8260C	
480-150568-11	TRIP BLANK	Total/NA	Water	8260C	
MB 480-464158/7	Method Blank	Total/NA	Water	8260C	
LCS 480-464158/5	Lab Control Sample	Total/NA	Water	8260C	
480-150568-5 MS	BCC Area C MW-C04_0320	Total/NA	Ground Water	8260C	
480-150568-5 MSD	BCC Area C MW-C04_0320	Total/NA	Ground Water	8260C	

Analysis Batch: 464196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	8260C	
MB 480-464196/7	Method Blank	Total/NA	Water	8260C	
LCS 480-464196/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 464673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-464673/7	Method Blank	Total/NA	Water	8260C	
LCS 480-464673/5	Lab Control Sample	Total/NA	Water	8260C	
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	8260C	
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 464095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	3510C	
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	3510C	
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	3510C	
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	3510C	
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	3510C	
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	3510C	
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	3510C	
MB 480-464095/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-464095/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 464095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-464095/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 464251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-464095/1-A	Method Blank	Total/NA	Water	8270D	464095
LCS 480-464095/2-A	Lab Control Sample	Total/NA	Water	8270D	464095
LCSD 480-464095/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	464095

Analysis Batch: 464520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	8270D	464095
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	8270D	464095
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	8270D	464095
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	8270D	464095
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	8270D	464095
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	8270D	464095
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	8270D	464095

Prep Batch: 464647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	3510C	
MB 480-464647/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-464647/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	3510C	
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	3510C	

Analysis Batch: 464933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	8270D	464647
MB 480-464647/1-A	Method Blank	Total/NA	Water	8270D	464647
LCS 480-464647/2-A	Lab Control Sample	Total/NA	Water	8270D	464647
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	8270D	464647
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	8270D	464647

Metals

Prep Batch: 464032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	3005A	
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	3005A	
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	3005A	
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	3005A	
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	3005A	
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	3005A	
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	3005A	
MB 480-464032/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-464032/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 464046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	7470A	

Metals (Continued)

Prep Batch: 464046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	7470A	
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	7470A	
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	7470A	
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	7470A	
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	7470A	
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	7470A	
MB 480-464046/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-464046/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 464124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	7470A	464046
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	7470A	464046
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	7470A	464046
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	7470A	464046
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	7470A	464046
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	7470A	464046
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	7470A	464046
MB 480-464046/1-A	Method Blank	Total/NA	Water	7470A	464046
LCS 480-464046/2-A	Lab Control Sample	Total/NA	Water	7470A	464046

Analysis Batch: 464479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	6010C	464032
480-150568-5	BCC Area C MW-C04_0320	Total/NA	Ground Water	6010C	464032
480-150568-6	BCC Area C PS-04_0320	Total/NA	Ground Water	6010C	464032
480-150568-7	BCC Area C PS-05A_0320	Total/NA	Ground Water	6010C	464032
480-150568-8	BCC Area C PS-06_0320	Total/NA	Ground Water	6010C	464032
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	6010C	464032
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	6010C	464032
MB 480-464032/1-A	Method Blank	Total/NA	Water	6010C	464032
LCS 480-464032/2-A	Lab Control Sample	Total/NA	Water	6010C	464032

Analysis Batch: 464572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-4	BCC Area C MW-C01 D_0320	Total/NA	Ground Water	6010C	464032
480-150568-9	BCC Area C RFI-20_0320	Total/NA	Ground Water	6010C	464032
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	6010C	464032
480-150568-10	BCC Area C RFI-31_0320	Total/NA	Ground Water	6010C	464032

Prep Batch: 464795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	3005A	
MB 480-464795/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-464795/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-464795/18-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	3005A	
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	3005A	

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Metals

Analysis Batch: 465389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	6010C	464795
MB 480-464795/1-A	Method Blank	Total/NA	Water	6010C	464795
LCS 480-464795/2-A	Lab Control Sample	Total/NA	Water	6010C	464795
LCSD 480-464795/18-A	Lab Control Sample Dup	Total/NA	Water	6010C	464795
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	6010C	464795
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	6010C	464795

Analysis Batch: 465676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	6010C	464795
LCSD 480-464795/18-A	Lab Control Sample Dup	Total/NA	Water	6010C	464795
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	6010C	464795
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	6010C	464795

Prep Batch: 465857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	7470A	
MB 480-465857/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-465857/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	7470A	
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	7470A	

Analysis Batch: 465901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150568-1	BCC Area C MW-CO1_0320	Total/NA	Ground Water	7470A	465857
MB 480-465857/1-A	Method Blank	Total/NA	Water	7470A	465857
LCS 480-465857/2-A	Lab Control Sample	Total/NA	Water	7470A	465857
480-150568-1 MS	BCC Area C MW-CO1 MS_0320	Total/NA	Ground Water	7470A	465857
480-150568-1 MSD	BCC Area C MW-CO1 MSD_0320	Total/NA	Ground Water	7470A	465857

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C MW-CO1_0320

Lab Sample ID: 480-150568-1
Date Collected: 03/20/19 09:40
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	463938	03/21/19 06:10	KMN	TAL BUF

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			464647	03/26/19 07:50	JMP	TAL BUF
Total/NA	Prep	3510C			464647	03/26/19 07:50	JMP	TAL BUF
Total/NA	Analysis	8270D		1	464933	03/27/19 17:15	RJS	TAL BUF
Total/NA	Prep	3005A			464795	03/28/19 07:40	MV	TAL BUF
Total/NA	Analysis	6010C		1	465389	03/28/19 15:21	EMB	TAL BUF
Total/NA	Prep	3005A			464795	03/28/19 07:40	MV	TAL BUF
Total/NA	Analysis	6010C		20	465676	03/29/19 16:18	EMB	TAL BUF
Total/NA	Prep	7470A			465857	04/02/19 12:30	BMB	TAL BUF
Total/NA	Analysis	7470A		1	465901	04/02/19 16:48	BMB	TAL BUF

Client Sample ID: BCC Area C MW-C01 D_0320

Lab Sample ID: 480-150568-4
Date Collected: 03/20/19 09:50
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	464158	03/22/19 01:05	KMN	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 15:00	RJS	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:12	AMH	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		20	464572	03/25/19 13:38	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:03	BMB	TAL BUF

Client Sample ID: BCC Area C MW-C04_0320

Lab Sample ID: 480-150568-5
Date Collected: 03/20/19 11:30
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	464158	03/22/19 01:29	KMN	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 15:29	RJS	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:16	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:04	BMB	TAL BUF

Client Sample ID: BCC Area C PS-04_0320

Lab Sample ID: 480-150568-6
Date Collected: 03/20/19 11:00
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	464158	03/22/19 01:53	KMN	TAL BUF

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 15:59	RJS	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:20	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:06	BMB	TAL BUF

Client Sample ID: BCC Area C PS-05A_0320

Lab Sample ID: 480-150568-7
Date Collected: 03/20/19 08:30
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	464158	03/22/19 02:18	KMN	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 16:29	RJS	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:23	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:10	BMB	TAL BUF

Client Sample ID: BCC Area C PS-06_0320

Lab Sample ID: 480-150568-8
Date Collected: 03/20/19 15:00
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	464196	03/22/19 11:42	AEM	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 16:58	RJS	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:27	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:11	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-20_0320

Lab Sample ID: 480-150568-9
Date Collected: 03/20/19 14:10
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	464158	03/22/19 03:06	KMN	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 17:28	RJS	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Client Sample ID: BCC Area C RFI-20_0320

Lab Sample ID: 480-150568-9
Date Collected: 03/20/19 14:10
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:42	AMH	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464572	03/25/19 13:42	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:12	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-31_0320

Lab Sample ID: 480-150568-10
Date Collected: 03/20/19 12:50
Matrix: Ground Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	463939	03/21/19 07:10	AMM	TAL BUF
Total/NA	Prep	3510C			464095	03/21/19 14:07	ATG	TAL BUF
Total/NA	Analysis	8270D		1	464520	03/25/19 17:58	RJS	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464479	03/22/19 17:46	AMH	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		1	464572	03/25/19 13:46	AMH	TAL BUF
Total/NA	Prep	3005A			464032	03/22/19 09:28	MV	TAL BUF
Total/NA	Analysis	6010C		5	464572	03/25/19 13:50	AMH	TAL BUF
Total/NA	Prep	7470A			464046	03/21/19 11:20	BMB	TAL BUF
Total/NA	Analysis	7470A		1	464124	03/21/19 15:14	BMB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-150568-11
Date Collected: 03/20/19 00:00
Matrix: Water
Date Received: 03/20/19 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	464158	03/22/19 03:31	KMN	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-150568-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150568-1	BCC Area C MW-CO1_0320	Ground Water	03/20/19 09:40	03/20/19 15:45
480-150568-4	BCC Area C MW-C01 D_0320	Ground Water	03/20/19 09:50	03/20/19 15:45
480-150568-5	BCC Area C MW-C04_0320	Ground Water	03/20/19 11:30	03/20/19 15:45
480-150568-6	BCC Area C PS-04_0320	Ground Water	03/20/19 11:00	03/20/19 15:45
480-150568-7	BCC Area C PS-05A_0320	Ground Water	03/20/19 08:30	03/20/19 15:45
480-150568-8	BCC Area C PS-06_0320	Ground Water	03/20/19 15:00	03/20/19 15:45
480-150568-9	BCC Area C RFI-20_0320	Ground Water	03/20/19 14:10	03/20/19 15:45
480-150568-10	BCC Area C RFI-31_0320	Ground Water	03/20/19 12:50	03/20/19 15:45
480-150568-11	TRIP BLANK	Water	03/20/19 00:00	03/20/19 15:45

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Schove	Site Contact: Tom Wagner	Date: 3-20-19	COC No: 306110_0319
Ontario Specialty Contracting Inc	Tel/Fax: 716-912-9926	Lab Contact: John Schove	Carrier: OSC	1 of 1 COCs
333 Ganson Street	Analysis Turnaround Time			Job No. 16011
Buffalo, NY 14203	Calendar (C) or Work Days (W) _____			
(716) 856-3333 Phone	TAT if different from Below _____			
(716) 842-1785 FAX	[x] 2 weeks			SDG No.
Project Name: Buffalo Color GWTF Area C Wells	[ ] 1 week			
Site: Honeywell Buffalo Color - NYC915230 EIM SITE ID - 37745	[ ] 2 days			
PO# 61812	[ ] 1 day			

480-150568 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B - TLC 4.2 list (TLC VOC)	6010B, 7470A (TAL Metals	8270C - (MOD) TLC SVOA - 4.2 list +analine	Sample Specific Notes:
BCC_Area C_MW-C01_ 0319	3/20-19	0940	G	W	6	N	3	1	2	
BCC_Area C_RFI-31_ 0319	3/20-19	1250	G	W	6	N	3	1	2	
BCC_Area C_PS-04_ 0319	3/20-19	1100	G	W	6	N	3	1	2	
BCC_Area C_MW-C04_ 0319	3/20-19	1130	G	W	6	N	3	1	2	
BCC_Area C_RFI-20_ 0319	3/20-19	1410	G	W	6	N	3	1	2	
BCC_Area C_PS-05A_ 0319	3/20-19	0830	G	W	6	N	3	1	2	
BCC_Area C_PS-06_ 0319	3/19-19	1500	G	W	6	N	3	1	2	
BCC_Area C_ MW-C01 D_ 0319	3/20-19	0950	G	W	6	N	3	1	2	
BCC_Area C_ MW-C01 MS_ 0319	↓	1000	G	W	6	N	3	1	2	
BCC_Area C_ MW-C01 MSD_ 0319	↓	1010	G	W	6	N	3	1	2	
Trip Blank	N/A	N/A	N/A	W	2	N	2			
						Container Volume (mL)	40	250	250	
							2	4	1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [X]

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

Special Instructions/QC Requirements & Comments:

#1 3.7°, 4.5°, 2.9°.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Wagner	OSC	3-20-19 1545	[illegible]	[illegible]	3/20/19 1545
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-150568-1

Login Number: 150568
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OSC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154071-1
Client Project/Site: Buffalo Color Area C Wells

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Kirsten Colligan

Authorized for release by:
6/24/2019 11:46:39 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-154071-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-154071-1

Receipt
The samples were received on 5/23/2019 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 3.2º C.

GC/MS VOA
Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and associated with batch 480-475384 The following samples were affected : BCC Area C MW-C01_0519 (480-154071-1), BCC Area C PS-04_0519 (480-154071-3), BCC Area C MW-C04_0519 (480-154071-4), BCC Area C RFI-20_0519 (480-154071-5), BCC Area C PS-06_0519 (480-154071-7), BCC Area C PS-06_0519 (480-154071-8) and TRIP BLANK (480-154071-9).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-475384 recovered outside acceptance criteria, low biased, for 1,1-Dichloroethene and Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: BCC Area C MW-C01_0519 (480-154071-1), BCC Area C PS-04_0519 (480-154071-3), BCC Area C MW-C04_0519 (480-154071-4), BCC Area C RFI-20_0519 (480-154071-5), BCC Area C PS-06_0519 (480-154071-7), BCC Area C PS-06_0519 (480-154071-8) and TRIP BLANK (480-154071-9).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: BCC Area C MW-C04_0519 (480-154071-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-C01_0519 (480-154071-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: BCC Area C PS-05A_0519 (480-154071-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: BCC Area C RFI-31_0519 (480-154071-2). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: BCC Area C MW-C01_0519 (480-154071-1). Elevated reporting limits (RLs) are provided.

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

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 480-475712/41) recovered above the upper control limit for Total Sodium. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples BCC Area C RFI-20_0519 (480-154071-5), BCC Area C PS-05A_0519 (480-154071-6) and BCC Area C PS-06_0519 (480-154071-8) was not performed.

Method(s) 6010C: The following sample was diluted due to the presence of Total Calcium which interferes with Copper: BCC Area C MW-C01_0519 (480-154071-1). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01_0519 — Lab Sample ID: 480-154071-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.91	J	2.0	0.88	ug/L	2		8260C	Total/NA
Benzo(a)anthracene	1.9	J	25	1.8	ug/L	5		8270D	Total/NA
Benzo(a)pyrene	2.4	J	25	2.4	ug/L	5		8270D	Total/NA
Benzo(b)fluoranthene	2.5	J	25	1.7	ug/L	5		8270D	Total/NA
Chrysene	2.1	J	25	1.7	ug/L	5		8270D	Total/NA
Fluoranthene	4.5	J	25	2.0	ug/L	5		8270D	Total/NA
Phenanthrene	3.1	J	25	2.2	ug/L	5		8270D	Total/NA
Pyrene	3.6	J	25	1.7	ug/L	5		8270D	Total/NA
Aluminum	5.4		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.011	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.86		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0015	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	1030		1.0	0.20	mg/L	2		6010C	Total/NA
Chromium	0.018		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.011		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.048		0.020	0.0032	mg/L	2		6010C	Total/NA
Iron	17.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.22		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	389		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.7		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.022		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	33.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	11300	B	20.0	6.5	mg/L	20		6010C	Total/NA
Vanadium	0.015		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.35		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.0022		0.0010	0.00060	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C RFI-31_0519 — Lab Sample ID: 480-154071-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	99		10	4.1	ug/L	10		8260C	Total/NA
1,3-Dichlorobenzene	63		10	7.8	ug/L	10		8260C	Total/NA
Chlorobenzene	38		10	7.5	ug/L	10		8260C	Total/NA
Methylene Chloride	7.7	J	10	4.4	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	0.76	J	5.0	0.51	ug/L	1		8270D	Total/NA
Aniline	0.86	J	10	0.61	ug/L	1		8270D	Total/NA
Barium	0.018		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	392		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0028	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0026	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.1		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	147		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0036	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	11.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1990	B	5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.0033	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00032		0.00020	0.00012	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-04_0519 — Lab Sample ID: 480-154071-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.033		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0065		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	178		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0088		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.064		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.063		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	30.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.013		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.070		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.5	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	18.8	B	1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.43		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C MW-C04_0519 — Lab Sample ID: 480-154071-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	27		10	7.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	51		10	8.4	ug/L	10		8260C	Total/NA
Benzene	5.0	J	10	4.1	ug/L	10		8260C	Total/NA
Chlorobenzene	380		10	7.5	ug/L	10		8260C	Total/NA
Methylene Chloride	7.7	J	10	4.4	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	2.7	J	5.0	0.51	ug/L	1		8270D	Total/NA
Aniline	0.80	J	10	0.61	ug/L	1		8270D	Total/NA
Aluminum	0.87		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.48		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	202		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.00066	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.036		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	7.1		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0079	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	27.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.94		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	8.1	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	32.7	B	1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0018	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.038		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00030		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C RFI-20_0519 — Lab Sample ID: 480-154071-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	14		1.0	0.75	ug/L	1		8260C	Total/NA
Barium	0.048		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	148		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	4.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	16.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.28		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0053	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	6.4	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	22.2	B ^	1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0031	J	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-05A_0519 — Lab Sample ID: 480-154071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	170		5.0	3.8	ug/L	5		8260C	Total/NA
Methylene Chloride	4.0	J	5.0	2.2	ug/L	5		8260C	Total/NA
Arsenic	0.068		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.016		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	213		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	17.1		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	23.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.25		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	12.4	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	99.7	B ^	1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.015		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-06_0519 — Lab Sample ID: 480-154071-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.0		1.0	0.38	ug/L	1		8260C	Total/NA
Aniline	0.65	J	10	0.61	ug/L	1		8270D	Total/NA
Arsenic	0.063		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.0081		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	188		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	26.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	8.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.15		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	42.9	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	35.8	B	1.0	0.32	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-06_D_0519 — Lab Sample ID: 480-154071-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0	0.38	ug/L	1		8260C	Total/NA
Aniline	0.66	J	10	0.61	ug/L	1		8270D	Total/NA
Arsenic	0.063		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.0082		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	183		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	25.7		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	8.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.14		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	41.7	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	34.6	B ^	1.0	0.32	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-154071-9

No Detections.

Client Sample ID: BCC Area C MW-C01F_0519 — Lab Sample ID: 480-154071-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.071	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.76		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0011	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	866		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0011	J	0.0040	0.0010	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01F_0519 (Continued) Lab Sample ID: 480-154071-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0078		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0080	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	8.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0052	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	362		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.6		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.010		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	28.3	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	9980	B	20.0	6.5	mg/L	20		6010C	Total/NA
Zinc	0.15		0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01_0519

Lab Sample ID: 480-154071-1

Date Collected: 05/22/19 09:20
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			05/30/19 23:54	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			05/30/19 23:54	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			05/30/19 23:54	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			05/30/19 23:54	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			05/30/19 23:54	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			05/30/19 23:54	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			05/30/19 23:54	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			05/30/19 23:54	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			05/30/19 23:54	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			05/30/19 23:54	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			05/30/19 23:54	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			05/30/19 23:54	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			05/30/19 23:54	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			05/30/19 23:54	2
2-Butanone (MEK)	ND	*	20	2.6	ug/L			05/30/19 23:54	2
2-Hexanone	ND		10	2.5	ug/L			05/30/19 23:54	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			05/30/19 23:54	2
Acetone	ND		20	6.0	ug/L			05/30/19 23:54	2
Benzene	ND		2.0	0.82	ug/L			05/30/19 23:54	2
Bromodichloromethane	ND		2.0	0.78	ug/L			05/30/19 23:54	2
Bromoform	ND		2.0	0.52	ug/L			05/30/19 23:54	2
Bromomethane	ND		2.0	1.4	ug/L			05/30/19 23:54	2
Carbon disulfide	ND		2.0	0.38	ug/L			05/30/19 23:54	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			05/30/19 23:54	2
Chlorobenzene	ND		2.0	1.5	ug/L			05/30/19 23:54	2
Chloroethane	ND		2.0	0.64	ug/L			05/30/19 23:54	2
Chloroform	ND		2.0	0.68	ug/L			05/30/19 23:54	2
Chloromethane	ND		2.0	0.70	ug/L			05/30/19 23:54	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			05/30/19 23:54	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			05/30/19 23:54	2
Cyclohexane	ND		2.0	0.36	ug/L			05/30/19 23:54	2
Dibromochloromethane	ND		2.0	0.64	ug/L			05/30/19 23:54	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			05/30/19 23:54	2
Ethylbenzene	ND		2.0	1.5	ug/L			05/30/19 23:54	2
Isopropylbenzene	ND		2.0	1.6	ug/L			05/30/19 23:54	2
Methyl acetate	ND		5.0	2.6	ug/L			05/30/19 23:54	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			05/30/19 23:54	2
Methylcyclohexane	ND		2.0	0.32	ug/L			05/30/19 23:54	2
Methylene Chloride	**0.91**	**J**	2.0	0.88	ug/L			05/30/19 23:54	2
Styrene	ND		2.0	1.5	ug/L			05/30/19 23:54	2
Tetrachloroethene	ND		2.0	0.72	ug/L			05/30/19 23:54	2
Toluene	ND		2.0	1.0	ug/L			05/30/19 23:54	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			05/30/19 23:54	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			05/30/19 23:54	2
Trichloroethene	ND		2.0	0.92	ug/L			05/30/19 23:54	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			05/30/19 23:54	2
Vinyl chloride	ND		2.0	1.8	ug/L			05/30/19 23:54	2
Xylenes, Total	ND		4.0	1.3	ug/L			05/30/19 23:54	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01_0519

Date Collected: 05/22/19 09:20
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-1

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*05/30/19 23:54*	*2*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/30/19 23:54*	*2*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/30/19 23:54*	*2*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/30/19 23:54*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		05/28/19 15:45	06/04/19 19:53	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		05/28/19 15:45	06/04/19 19:53	5
2,4-Dinitrophenol	ND		50	11	ug/L		05/28/19 15:45	06/04/19 19:53	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		05/28/19 15:45	06/04/19 19:53	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
2-Chloronaphthalene	ND		25	2.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
2-Chlorophenol	ND		25	2.7	ug/L		05/28/19 15:45	06/04/19 19:53	5
2-Methylnaphthalene	ND		25	3.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
2-Methylphenol	ND		25	2.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
2-Nitroaniline	ND		50	2.1	ug/L		05/28/19 15:45	06/04/19 19:53	5
2-Nitrophenol	ND		25	2.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
3-Nitroaniline	ND		50	2.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Chloroaniline	ND		25	3.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Methylphenol	ND		50	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Nitroaniline	ND		50	1.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
4-Nitrophenol	ND		50	7.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
Acenaphthene	ND		25	2.1	ug/L		05/28/19 15:45	06/04/19 19:53	5
Acenaphthylene	ND		25	1.9	ug/L		05/28/19 15:45	06/04/19 19:53	5
Acetophenone	ND		25	2.7	ug/L		05/28/19 15:45	06/04/19 19:53	5
Aniline	ND		50	3.1	ug/L		05/28/19 15:45	06/04/19 19:53	5
Anthracene	ND		25	1.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
Atrazine	ND		25	2.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
Benzaldehyde	ND		25	1.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
Benzo(a)anthracene	**1.9**	**J**	25	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
Benzo(a)pyrene	**2.4**	**J**	25	2.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
Benzo(b)fluoranthene	**2.5**	**J**	25	1.7	ug/L		05/28/19 15:45	06/04/19 19:53	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		05/28/19 15:45	06/04/19 19:53	5
Biphenyl	ND		25	3.3	ug/L		05/28/19 15:45	06/04/19 19:53	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		05/28/19 15:45	06/04/19 19:53	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
Caprolactam	ND		25	11	ug/L		05/28/19 15:45	06/04/19 19:53	5
Carbazole	ND		25	1.5	ug/L		05/28/19 15:45	06/04/19 19:53	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01_0519

Date Collected: 05/22/19 09:20
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**2.1**	**J**	25	1.7	ug/L		05/28/19 15:45	06/04/19 19:53	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		05/28/19 15:45	06/04/19 19:53	5
Dibenzofuran	ND		50	2.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
Diethyl phthalate	ND		25	1.1	ug/L		05/28/19 15:45	06/04/19 19:53	5
Dimethyl phthalate	ND		25	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
Fluoranthene	**4.5**	**J**	25	2.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
Fluorene	ND		25	1.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
Hexachlorobenzene	ND		25	2.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
Hexachlorobutadiene	ND		25	3.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
Hexachloroethane	ND		25	3.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		05/28/19 15:45	06/04/19 19:53	5
Isophorone	ND		25	2.2	ug/L		05/28/19 15:45	06/04/19 19:53	5
Naphthalene	ND		25	3.8	ug/L		05/28/19 15:45	06/04/19 19:53	5
Nitrobenzene	ND		25	1.5	ug/L		05/28/19 15:45	06/04/19 19:53	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		05/28/19 15:45	06/04/19 19:53	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		05/28/19 15:45	06/04/19 19:53	5
Pentachlorophenol	ND		50	11	ug/L		05/28/19 15:45	06/04/19 19:53	5
Phenanthrene	**3.1**	**J**	25	2.2	ug/L		05/28/19 15:45	06/04/19 19:53	5
Phenol	ND		25	2.0	ug/L		05/28/19 15:45	06/04/19 19:53	5
Pyrene	**3.6**	**J**	25	1.7	ug/L		05/28/19 15:45	06/04/19 19:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*41 - 120*	*05/28/19 15:45*	*06/04/19 19:53*	*5*
2-Fluorobiphenyl	*100*		*48 - 120*	*05/28/19 15:45*	*06/04/19 19:53*	*5*
2-Fluorophenol	*72*		*35 - 120*	*05/28/19 15:45*	*06/04/19 19:53*	*5*
Nitrobenzene-d5	*80*		*46 - 120*	*05/28/19 15:45*	*06/04/19 19:53*	*5*
Phenol-d5	*54*		*22 - 120*	*05/28/19 15:45*	*06/04/19 19:53*	*5*
p-Terphenyl-d14	*77*		*59 - 136*	*05/28/19 15:45*	*06/04/19 19:53*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5.4**		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 16:47	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 16:47	1
Arsenic	**0.011**	**J**	0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 16:47	1
Barium	**0.86**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 16:47	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 16:47	1
Cadmium	**0.0015**	**J**	0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 16:47	1
Calcium	**1030**		1.0	0.20	mg/L		05/29/19 07:33	06/01/19 10:34	2
Chromium	**0.018**		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 16:47	1
Cobalt	**0.011**		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 16:47	1
Copper	**0.048**		0.020	0.0032	mg/L		05/29/19 07:33	06/01/19 10:34	2
Iron	**17.3**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 16:47	1
Lead	**0.22**		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 16:47	1
Magnesium	**389**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 16:47	1
Manganese	**1.7**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 16:47	1
Nickel	**0.022**		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 16:47	1
Potassium	**33.2**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:47	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01_0519

Lab Sample ID: 480-154071-1

Date Collected: 05/22/19 09:20
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 16:47	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 16:47	1
Sodium	**11300**	**B**	20.0	6.5	mg/L		05/29/19 07:33	06/01/19 10:38	20
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 16:47	1
Vanadium	**0.015**		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 16:47	1
Zinc	**0.35**		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 16:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0022**		0.0010	0.00060	mg/L		05/30/19 11:15	05/30/19 14:01	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-31_0519

Lab Sample ID: 480-154071-2

Date Collected: 05/23/19 10:00
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/01/19 17:06	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/01/19 17:06	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/01/19 17:06	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/01/19 17:06	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/01/19 17:06	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/01/19 17:06	10
1,2,4-Trichlorobenzene	**99**		10	4.1	ug/L			06/01/19 17:06	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/01/19 17:06	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/01/19 17:06	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/01/19 17:06	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/01/19 17:06	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/01/19 17:06	10
1,3-Dichlorobenzene	**63**		10	7.8	ug/L			06/01/19 17:06	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/01/19 17:06	10
2-Butanone (MEK)	ND		100	13	ug/L			06/01/19 17:06	10
2-Hexanone	ND		50	12	ug/L			06/01/19 17:06	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/01/19 17:06	10
Acetone	ND		100	30	ug/L			06/01/19 17:06	10
Benzene	ND		10	4.1	ug/L			06/01/19 17:06	10
Bromodichloromethane	ND		10	3.9	ug/L			06/01/19 17:06	10
Bromoform	ND		10	2.6	ug/L			06/01/19 17:06	10
Bromomethane	ND		10	6.9	ug/L			06/01/19 17:06	10
Carbon disulfide	ND		10	1.9	ug/L			06/01/19 17:06	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/01/19 17:06	10
Chlorobenzene	**38**		10	7.5	ug/L			06/01/19 17:06	10
Chloroethane	ND		10	3.2	ug/L			06/01/19 17:06	10
Chloroform	ND		10	3.4	ug/L			06/01/19 17:06	10
Chloromethane	ND		10	3.5	ug/L			06/01/19 17:06	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/01/19 17:06	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/01/19 17:06	10
Cyclohexane	ND		10	1.8	ug/L			06/01/19 17:06	10
Dibromochloromethane	ND		10	3.2	ug/L			06/01/19 17:06	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/01/19 17:06	10
Ethylbenzene	ND		10	7.4	ug/L			06/01/19 17:06	10
Isopropylbenzene	ND		10	7.9	ug/L			06/01/19 17:06	10
Methyl acetate	ND		25	13	ug/L			06/01/19 17:06	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/01/19 17:06	10
Methylcyclohexane	ND		10	1.6	ug/L			06/01/19 17:06	10
Methylene Chloride	**7.7**	**J**	10	4.4	ug/L			06/01/19 17:06	10
Styrene	ND		10	7.3	ug/L			06/01/19 17:06	10
Tetrachloroethene	ND		10	3.6	ug/L			06/01/19 17:06	10
Toluene	ND		10	5.1	ug/L			06/01/19 17:06	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/01/19 17:06	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/01/19 17:06	10
Trichloroethene	ND		10	4.6	ug/L			06/01/19 17:06	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/01/19 17:06	10
Vinyl chloride	ND		10	9.0	ug/L			06/01/19 17:06	10
Xylenes, Total	ND		20	6.6	ug/L			06/01/19 17:06	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-31_0519

Date Collected: 05/23/19 10:00
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-2

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/01/19 17:06*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/01/19 17:06*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/01/19 17:06*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/01/19 17:06*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 20:22	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 20:22	1
2,4-Dichlorophenol	**0.76**	**J**	5.0	0.51	ug/L		05/28/19 15:45	06/04/19 20:22	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 20:22	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 20:22	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 20:22	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:22	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 20:22	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 20:22	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 20:22	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:22	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 20:22	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 20:22	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:22	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 20:22	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 20:22	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 20:22	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 20:22	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 20:22	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 20:22	1
Aniline	**0.86**	**J**	10	0.61	ug/L		05/28/19 15:45	06/04/19 20:22	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 20:22	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 20:22	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 20:22	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 20:22	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 20:22	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 20:22	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 20:22	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 20:22	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 20:22	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 20:22	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 20:22	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:22	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 20:22	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 20:22	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 20:22	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 20:22	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-31_0519

Lab Sample ID: 480-154071-2

Date Collected: 05/23/19 10:00
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 20:22	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 20:22	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 20:22	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 20:22	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 20:22	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 20:22	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 20:22	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:22	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 20:22	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 20:22	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 20:22	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 20:22	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 20:22	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 20:22	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 20:22	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 20:22	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 20:22	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 20:22	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 20:22	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 20:22	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 20:22	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 20:22	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*41 - 120*	*05/28/19 15:45*	*06/04/19 20:22*	*1*
2-Fluorobiphenyl	*73*		*48 - 120*	*05/28/19 15:45*	*06/04/19 20:22*	*1*
2-Fluorophenol	*54*		*35 - 120*	*05/28/19 15:45*	*06/04/19 20:22*	*1*
Nitrobenzene-d5	*64*		*46 - 120*	*05/28/19 15:45*	*06/04/19 20:22*	*1*
Phenol-d5	*40*		*22 - 120*	*05/28/19 15:45*	*06/04/19 20:22*	*1*
p-Terphenyl-d14	*71*		*59 - 136*	*05/28/19 15:45*	*06/04/19 20:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 16:51	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 16:51	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 16:51	1
Barium	**0.018**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 16:51	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 16:51	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 16:51	1
Calcium	**392**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:51	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 16:51	1
Cobalt	**0.0028**	**J**	0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 16:51	1
Copper	**0.0026**	**J**	0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 16:51	1
Iron	**1.1**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 16:51	1
Lead	ND		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 16:51	1
Magnesium	**147**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 16:51	1
Manganese	**1.3**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 16:51	1
Nickel	**0.0036**	**J**	0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 16:51	1
Potassium	**11.2**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:51	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-31_0519

Lab Sample ID: 480-154071-2

Date Collected: 05/23/19 10:00
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 16:51	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 16:51	1
Sodium	**1990**	**B**	5.0	1.6	mg/L		05/29/19 07:33	06/01/19 10:42	5
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 16:51	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 16:51	1
Zinc	**0.0033**	**J**	0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 16:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00032**		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:02	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-04_0519

Lab Sample ID: 480-154071-3

Date Collected: 05/22/19 10:25
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/31/19 00:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/31/19 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/31/19 00:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/31/19 00:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/31/19 00:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/31/19 00:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/31/19 00:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/31/19 00:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/31/19 00:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/31/19 00:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/31/19 00:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/31/19 00:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/31/19 00:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/31/19 00:18	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			05/31/19 00:18	1
2-Hexanone	ND		5.0	1.2	ug/L			05/31/19 00:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/31/19 00:18	1
Acetone	ND		10	3.0	ug/L			05/31/19 00:18	1
Benzene	ND		1.0	0.41	ug/L			05/31/19 00:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/31/19 00:18	1
Bromoform	ND		1.0	0.26	ug/L			05/31/19 00:18	1
Bromomethane	ND		1.0	0.69	ug/L			05/31/19 00:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/31/19 00:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/31/19 00:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/31/19 00:18	1
Chloroethane	ND		1.0	0.32	ug/L			05/31/19 00:18	1
Chloroform	ND		1.0	0.34	ug/L			05/31/19 00:18	1
Chloromethane	ND		1.0	0.35	ug/L			05/31/19 00:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/31/19 00:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/31/19 00:18	1
Cyclohexane	ND		1.0	0.18	ug/L			05/31/19 00:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/31/19 00:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/31/19 00:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/31/19 00:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/31/19 00:18	1
Methyl acetate	ND		2.5	1.3	ug/L			05/31/19 00:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/31/19 00:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/31/19 00:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/31/19 00:18	1
Styrene	ND		1.0	0.73	ug/L			05/31/19 00:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/31/19 00:18	1
Toluene	ND		1.0	0.51	ug/L			05/31/19 00:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/31/19 00:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/31/19 00:18	1
Trichloroethene	ND		1.0	0.46	ug/L			05/31/19 00:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/31/19 00:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/31/19 00:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/31/19 00:18	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-04_0519

Date Collected: 05/22/19 10:25
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-3

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/31/19 00:18*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*05/31/19 00:18*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/31/19 00:18*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/31/19 00:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 20:50	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 20:50	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 20:50	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 20:50	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 20:50	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 20:50	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:50	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 20:50	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 20:50	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 20:50	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:50	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 20:50	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 20:50	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:50	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 20:50	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 20:50	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 20:50	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 20:50	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 20:50	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 20:50	1
Aniline	ND		10	0.61	ug/L		05/28/19 15:45	06/04/19 20:50	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 20:50	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 20:50	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 20:50	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 20:50	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 20:50	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 20:50	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 20:50	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 20:50	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 20:50	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 20:50	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 20:50	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:50	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 20:50	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 20:50	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 20:50	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 20:50	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-04_0519

Date Collected: 05/22/19 10:25
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 20:50	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 20:50	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 20:50	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 20:50	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 20:50	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 20:50	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 20:50	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 20:50	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 20:50	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 20:50	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 20:50	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 20:50	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 20:50	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 20:50	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 20:50	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 20:50	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 20:50	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 20:50	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 20:50	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 20:50	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 20:50	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 20:50	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*41 - 120*	*05/28/19 15:45*	*06/04/19 20:50*	*1*
2-Fluorobiphenyl	*86*		*48 - 120*	*05/28/19 15:45*	*06/04/19 20:50*	*1*
2-Fluorophenol	*64*		*35 - 120*	*05/28/19 15:45*	*06/04/19 20:50*	*1*
Nitrobenzene-d5	*78*		*46 - 120*	*05/28/19 15:45*	*06/04/19 20:50*	*1*
Phenol-d5	*47*		*22 - 120*	*05/28/19 15:45*	*06/04/19 20:50*	*1*
p-Terphenyl-d14	*80*		*59 - 136*	*05/28/19 15:45*	*06/04/19 20:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 16:55	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 16:55	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 16:55	1
Barium	**0.033**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 16:55	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 16:55	1
Cadmium	**0.0065**		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 16:55	1
Calcium	**178**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:55	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 16:55	1
Cobalt	**0.0088**		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 16:55	1
Copper	**0.064**		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 16:55	1
Iron	**0.063**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 16:55	1
Lead	ND		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 16:55	1
Magnesium	**30.1**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 16:55	1
Manganese	**0.013**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 16:55	1
Nickel	**0.070**		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 16:55	1
Potassium	**7.5**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:55	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-04_0519

Lab Sample ID: 480-154071-3

Date Collected: 05/22/19 10:25
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 16:55	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 16:55	1
Sodium	**18.8**	**B**	1.0	0.32	mg/L		05/29/19 07:33	05/31/19 16:55	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 16:55	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 16:55	1
Zinc	**0.43**		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 16:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:04	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C04_0519

Lab Sample ID: 480-154071-4

Date Collected: 05/22/19 11:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			05/31/19 00:42	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			05/31/19 00:42	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			05/31/19 00:42	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			05/31/19 00:42	10
1,1-Dichloroethane	ND		10	3.8	ug/L			05/31/19 00:42	10
1,1-Dichloroethene	ND		10	2.9	ug/L			05/31/19 00:42	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			05/31/19 00:42	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			05/31/19 00:42	10
1,2-Dibromoethane	ND		10	7.3	ug/L			05/31/19 00:42	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			05/31/19 00:42	10
1,2-Dichloroethane	ND		10	2.1	ug/L			05/31/19 00:42	10
1,2-Dichloropropane	ND		10	7.2	ug/L			05/31/19 00:42	10
1,3-Dichlorobenzene	**27**		10	7.8	ug/L			05/31/19 00:42	10
1,4-Dichlorobenzene	**51**		10	8.4	ug/L			05/31/19 00:42	10
2-Butanone (MEK)	ND	*	100	13	ug/L			05/31/19 00:42	10
2-Hexanone	ND		50	12	ug/L			05/31/19 00:42	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			05/31/19 00:42	10
Acetone	ND		100	30	ug/L			05/31/19 00:42	10
Benzene	**5.0**	**J**	10	4.1	ug/L			05/31/19 00:42	10
Bromodichloromethane	ND		10	3.9	ug/L			05/31/19 00:42	10
Bromoform	ND		10	2.6	ug/L			05/31/19 00:42	10
Bromomethane	ND		10	6.9	ug/L			05/31/19 00:42	10
Carbon disulfide	ND		10	1.9	ug/L			05/31/19 00:42	10
Carbon tetrachloride	ND		10	2.7	ug/L			05/31/19 00:42	10
Chlorobenzene	**380**		10	7.5	ug/L			05/31/19 00:42	10
Chloroethane	ND		10	3.2	ug/L			05/31/19 00:42	10
Chloroform	ND		10	3.4	ug/L			05/31/19 00:42	10
Chloromethane	ND		10	3.5	ug/L			05/31/19 00:42	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			05/31/19 00:42	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			05/31/19 00:42	10
Cyclohexane	ND		10	1.8	ug/L			05/31/19 00:42	10
Dibromochloromethane	ND		10	3.2	ug/L			05/31/19 00:42	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			05/31/19 00:42	10
Ethylbenzene	ND		10	7.4	ug/L			05/31/19 00:42	10
Isopropylbenzene	ND		10	7.9	ug/L			05/31/19 00:42	10
Methyl acetate	ND		25	13	ug/L			05/31/19 00:42	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			05/31/19 00:42	10
Methylcyclohexane	ND		10	1.6	ug/L			05/31/19 00:42	10
Methylene Chloride	**7.7**	**J**	10	4.4	ug/L			05/31/19 00:42	10
Styrene	ND		10	7.3	ug/L			05/31/19 00:42	10
Tetrachloroethene	ND		10	3.6	ug/L			05/31/19 00:42	10
Toluene	ND		10	5.1	ug/L			05/31/19 00:42	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			05/31/19 00:42	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			05/31/19 00:42	10
Trichloroethene	ND		10	4.6	ug/L			05/31/19 00:42	10
Trichlorofluoromethane	ND		10	8.8	ug/L			05/31/19 00:42	10
Vinyl chloride	ND		10	9.0	ug/L			05/31/19 00:42	10
Xylenes, Total	ND		20	6.6	ug/L			05/31/19 00:42	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C04_0519

Date Collected: 05/22/19 11:30
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-4

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/31/19 00:42*	*10*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*05/31/19 00:42*	*10*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/31/19 00:42*	*10*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/31/19 00:42*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 21:19	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 21:19	1
2,4-Dichlorophenol	**2.7**	**J**	5.0	0.51	ug/L		05/28/19 15:45	06/04/19 21:19	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 21:19	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 21:19	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 21:19	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:19	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 21:19	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 21:19	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 21:19	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:19	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 21:19	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 21:19	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:19	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 21:19	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 21:19	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 21:19	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 21:19	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 21:19	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 21:19	1
Aniline	**0.80**	**J**	10	0.61	ug/L		05/28/19 15:45	06/04/19 21:19	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 21:19	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 21:19	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 21:19	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 21:19	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 21:19	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 21:19	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 21:19	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 21:19	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 21:19	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 21:19	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 21:19	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:19	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 21:19	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 21:19	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 21:19	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 21:19	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C04_0519

Lab Sample ID: 480-154071-4

Date Collected: 05/22/19 11:30
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 21:19	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 21:19	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 21:19	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 21:19	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 21:19	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 21:19	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 21:19	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:19	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 21:19	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 21:19	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 21:19	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 21:19	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 21:19	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 21:19	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 21:19	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 21:19	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 21:19	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 21:19	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 21:19	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 21:19	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 21:19	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 21:19	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*103*		*41 - 120*	*05/28/19 15:45*	*06/04/19 21:19*	*1*
2-Fluorobiphenyl	*81*		*48 - 120*	*05/28/19 15:45*	*06/04/19 21:19*	*1*
2-Fluorophenol	*57*		*35 - 120*	*05/28/19 15:45*	*06/04/19 21:19*	*1*
Nitrobenzene-d5	*72*		*46 - 120*	*05/28/19 15:45*	*06/04/19 21:19*	*1*
Phenol-d5	*43*		*22 - 120*	*05/28/19 15:45*	*06/04/19 21:19*	*1*
p-Terphenyl-d14	*76*		*59 - 136*	*05/28/19 15:45*	*06/04/19 21:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.87**		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 16:59	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 16:59	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 16:59	1
Barium	**0.48**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 16:59	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 16:59	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 16:59	1
Calcium	**202**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:59	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 16:59	1
Cobalt	**0.00066**	**J**	0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 16:59	1
Copper	**0.036**		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 16:59	1
Iron	**7.1**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 16:59	1
Lead	**0.0079**	**J**	0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 16:59	1
Magnesium	**27.7**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 16:59	1
Manganese	**0.94**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 16:59	1
Nickel	ND		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 16:59	1
Potassium	**8.1**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:59	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C04_0519

Lab Sample ID: 480-154071-4

Date Collected: 05/22/19 11:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 16:59	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 16:59	1
Sodium	**32.7**	**B**	1.0	0.32	mg/L		05/29/19 07:33	05/31/19 16:59	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 16:59	1
Vanadium	**0.0018**	**J**	0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 16:59	1
Zinc	**0.038**		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 16:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00030**		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:05	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-20_0519

Lab Sample ID: 480-154071-5

Date Collected: 05/22/19 14:25
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/31/19 01:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/31/19 01:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/31/19 01:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/31/19 01:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/31/19 01:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/31/19 01:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/31/19 01:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/31/19 01:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/31/19 01:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/31/19 01:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/31/19 01:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/31/19 01:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/31/19 01:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/31/19 01:07	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			05/31/19 01:07	1
2-Hexanone	ND		5.0	1.2	ug/L			05/31/19 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/31/19 01:07	1
Acetone	ND		10	3.0	ug/L			05/31/19 01:07	1
Benzene	ND		1.0	0.41	ug/L			05/31/19 01:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/31/19 01:07	1
Bromoform	ND		1.0	0.26	ug/L			05/31/19 01:07	1
Bromomethane	ND		1.0	0.69	ug/L			05/31/19 01:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/31/19 01:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/31/19 01:07	1
Chlorobenzene	**14**		1.0	0.75	ug/L			05/31/19 01:07	1
Chloroethane	ND		1.0	0.32	ug/L			05/31/19 01:07	1
Chloroform	ND		1.0	0.34	ug/L			05/31/19 01:07	1
Chloromethane	ND		1.0	0.35	ug/L			05/31/19 01:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/31/19 01:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/31/19 01:07	1
Cyclohexane	ND		1.0	0.18	ug/L			05/31/19 01:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/31/19 01:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/31/19 01:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/31/19 01:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/31/19 01:07	1
Methyl acetate	ND		2.5	1.3	ug/L			05/31/19 01:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/31/19 01:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/31/19 01:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/31/19 01:07	1
Styrene	ND		1.0	0.73	ug/L			05/31/19 01:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/31/19 01:07	1
Toluene	ND		1.0	0.51	ug/L			05/31/19 01:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/31/19 01:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/31/19 01:07	1
Trichloroethene	ND		1.0	0.46	ug/L			05/31/19 01:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/31/19 01:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/31/19 01:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/31/19 01:07	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-20_0519

Date Collected: 05/22/19 14:25
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-5

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*05/31/19 01:07*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/31/19 01:07*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*05/31/19 01:07*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*05/31/19 01:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 21:49	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 21:49	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 21:49	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 21:49	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 21:49	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 21:49	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:49	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 21:49	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 21:49	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 21:49	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:49	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 21:49	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 21:49	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:49	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 21:49	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 21:49	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 21:49	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 21:49	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 21:49	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 21:49	1
Aniline	ND		10	0.61	ug/L		05/28/19 15:45	06/04/19 21:49	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 21:49	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 21:49	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 21:49	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 21:49	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 21:49	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 21:49	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 21:49	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 21:49	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 21:49	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 21:49	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 21:49	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:49	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 21:49	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 21:49	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 21:49	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 21:49	1

Client Sample ID: BCC Area C RFI-20_0519

Lab Sample ID: 480-154071-5

Date Collected: 05/22/19 14:25

Matrix: Ground Water

Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 21:49	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 21:49	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 21:49	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 21:49	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 21:49	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 21:49	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 21:49	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 21:49	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 21:49	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 21:49	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 21:49	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 21:49	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 21:49	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 21:49	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 21:49	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 21:49	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 21:49	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 21:49	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 21:49	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 21:49	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 21:49	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 21:49	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*41 - 120*	*05/28/19 15:45*	*06/04/19 21:49*	*1*
2-Fluorobiphenyl	*73*		*48 - 120*	*05/28/19 15:45*	*06/04/19 21:49*	*1*
2-Fluorophenol	*50*		*35 - 120*	*05/28/19 15:45*	*06/04/19 21:49*	*1*
Nitrobenzene-d5	*64*		*46 - 120*	*05/28/19 15:45*	*06/04/19 21:49*	*1*
Phenol-d5	*37*		*22 - 120*	*05/28/19 15:45*	*06/04/19 21:49*	*1*
p-Terphenyl-d14	*74*		*59 - 136*	*05/28/19 15:45*	*06/04/19 21:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 17:14	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 17:14	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 17:14	1
Barium	**0.048**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 17:14	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 17:14	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 17:14	1
Calcium	**148**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:14	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 17:14	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 17:14	1
Copper	ND		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 17:14	1
Iron	**4.5**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 17:14	1
Lead	ND		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 17:14	1
Magnesium	**16.7**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 17:14	1
Manganese	**0.28**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 17:14	1
Nickel	**0.0053**	**J**	0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 17:14	1
Potassium	**6.4**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:14	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C RFI-20_0519

Lab Sample ID: 480-154071-5

Date Collected: 05/22/19 14:25
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 17:14	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 17:14	1
Sodium	**22.2**	**B ^**	1.0	0.32	mg/L		05/29/19 07:33	05/31/19 17:14	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 17:14	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 17:14	1
Zinc	**0.0031**	**J**	0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 17:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:06	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-05A_0519

Lab Sample ID: 480-154071-6

Date Collected: 05/23/19 08:40
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			06/01/19 17:30	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/01/19 17:30	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/01/19 17:30	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/01/19 17:30	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			06/01/19 17:30	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/01/19 17:30	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/01/19 17:30	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/01/19 17:30	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/01/19 17:30	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/01/19 17:30	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/01/19 17:30	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/01/19 17:30	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/01/19 17:30	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/01/19 17:30	5
2-Butanone (MEK)	ND		50	6.6	ug/L			06/01/19 17:30	5
2-Hexanone	ND		25	6.2	ug/L			06/01/19 17:30	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/01/19 17:30	5
Acetone	ND		50	15	ug/L			06/01/19 17:30	5
Benzene	ND		5.0	2.1	ug/L			06/01/19 17:30	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/01/19 17:30	5
Bromoform	ND		5.0	1.3	ug/L			06/01/19 17:30	5
Bromomethane	ND		5.0	3.5	ug/L			06/01/19 17:30	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/01/19 17:30	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/01/19 17:30	5
Chlorobenzene	**170**		5.0	3.8	ug/L			06/01/19 17:30	5
Chloroethane	ND		5.0	1.6	ug/L			06/01/19 17:30	5
Chloroform	ND		5.0	1.7	ug/L			06/01/19 17:30	5
Chloromethane	ND		5.0	1.8	ug/L			06/01/19 17:30	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			06/01/19 17:30	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/01/19 17:30	5
Cyclohexane	ND		5.0	0.90	ug/L			06/01/19 17:30	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/01/19 17:30	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/01/19 17:30	5
Ethylbenzene	ND		5.0	3.7	ug/L			06/01/19 17:30	5
Isopropylbenzene	ND		5.0	4.0	ug/L			06/01/19 17:30	5
Methyl acetate	ND		13	6.5	ug/L			06/01/19 17:30	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			06/01/19 17:30	5
Methylcyclohexane	ND		5.0	0.80	ug/L			06/01/19 17:30	5
Methylene Chloride	**4.0**	**J**	5.0	2.2	ug/L			06/01/19 17:30	5
Styrene	ND		5.0	3.7	ug/L			06/01/19 17:30	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/01/19 17:30	5
Toluene	ND		5.0	2.6	ug/L			06/01/19 17:30	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/01/19 17:30	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/01/19 17:30	5
Trichloroethene	ND		5.0	2.3	ug/L			06/01/19 17:30	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/01/19 17:30	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/01/19 17:30	5
Xylenes, Total	ND		10	3.3	ug/L			06/01/19 17:30	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-05A_0519

Date Collected: 05/23/19 08:40
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-6

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/01/19 17:30*	*5*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/01/19 17:30*	*5*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/01/19 17:30*	*5*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/01/19 17:30*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 22:18	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 22:18	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 22:18	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 22:18	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 22:18	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 22:18	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:18	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 22:18	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 22:18	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 22:18	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:18	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 22:18	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 22:18	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:18	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 22:18	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 22:18	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 22:18	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 22:18	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 22:18	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 22:18	1
Aniline	ND		10	0.61	ug/L		05/28/19 15:45	06/04/19 22:18	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 22:18	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 22:18	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 22:18	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 22:18	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 22:18	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 22:18	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 22:18	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 22:18	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 22:18	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 22:18	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 22:18	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:18	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 22:18	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 22:18	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 22:18	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 22:18	1

Client Sample ID: BCC Area C PS-05A_0519

Lab Sample ID: 480-154071-6

Date Collected: 05/23/19 08:40

Matrix: Ground Water

Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 22:18	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 22:18	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 22:18	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 22:18	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 22:18	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 22:18	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 22:18	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:18	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 22:18	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 22:18	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 22:18	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 22:18	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 22:18	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 22:18	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 22:18	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 22:18	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 22:18	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 22:18	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 22:18	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 22:18	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 22:18	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 22:18	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*104*		*41 - 120*	*05/28/19 15:45*	*06/04/19 22:18*	*1*
2-Fluorobiphenyl	*87*		*48 - 120*	*05/28/19 15:45*	*06/04/19 22:18*	*1*
2-Fluorophenol	*65*		*35 - 120*	*05/28/19 15:45*	*06/04/19 22:18*	*1*
Nitrobenzene-d5	*77*		*46 - 120*	*05/28/19 15:45*	*06/04/19 22:18*	*1*
Phenol-d5	*47*		*22 - 120*	*05/28/19 15:45*	*06/04/19 22:18*	*1*
p-Terphenyl-d14	*81*		*59 - 136*	*05/28/19 15:45*	*06/04/19 22:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 17:17	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 17:17	1
Arsenic	**0.068**		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 17:17	1
Barium	**0.016**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 17:17	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 17:17	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 17:17	1
Calcium	**213**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:17	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 17:17	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 17:17	1
Copper	ND		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 17:17	1
Iron	**17.1**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 17:17	1
Lead	ND		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 17:17	1
Magnesium	**23.0**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 17:17	1
Manganese	**0.25**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 17:17	1
Nickel	ND		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 17:17	1
Potassium	**12.4**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:17	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-05A_0519

Lab Sample ID: 480-154071-6

Date Collected: 05/23/19 08:40
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 17:17	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 17:17	1
Sodium	**99.7**	**B ^**	1.0	0.32	mg/L		05/29/19 07:33	05/31/19 17:17	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 17:17	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 17:17	1
Zinc	**0.015**		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 17:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:07	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_0519

Lab Sample ID: 480-154071-7

Date Collected: 05/22/19 12:20
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/31/19 01:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/31/19 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/31/19 01:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/31/19 01:31	1
1,1-Dichloroethane	**1.0**		1.0	0.38	ug/L			05/31/19 01:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/31/19 01:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/31/19 01:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/31/19 01:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/31/19 01:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/31/19 01:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/31/19 01:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/31/19 01:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/31/19 01:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/31/19 01:31	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			05/31/19 01:31	1
2-Hexanone	ND		5.0	1.2	ug/L			05/31/19 01:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/31/19 01:31	1
Acetone	ND		10	3.0	ug/L			05/31/19 01:31	1
Benzene	ND		1.0	0.41	ug/L			05/31/19 01:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/31/19 01:31	1
Bromoform	ND		1.0	0.26	ug/L			05/31/19 01:31	1
Bromomethane	ND		1.0	0.69	ug/L			05/31/19 01:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/31/19 01:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/31/19 01:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/31/19 01:31	1
Chloroethane	ND		1.0	0.32	ug/L			05/31/19 01:31	1
Chloroform	ND		1.0	0.34	ug/L			05/31/19 01:31	1
Chloromethane	ND		1.0	0.35	ug/L			05/31/19 01:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/31/19 01:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/31/19 01:31	1
Cyclohexane	ND		1.0	0.18	ug/L			05/31/19 01:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/31/19 01:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/31/19 01:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/31/19 01:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/31/19 01:31	1
Methyl acetate	ND	F1	2.5	1.3	ug/L			05/31/19 01:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/31/19 01:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/31/19 01:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/31/19 01:31	1
Styrene	ND		1.0	0.73	ug/L			05/31/19 01:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/31/19 01:31	1
Toluene	ND		1.0	0.51	ug/L			05/31/19 01:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/31/19 01:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/31/19 01:31	1
Trichloroethene	ND		1.0	0.46	ug/L			05/31/19 01:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/31/19 01:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/31/19 01:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/31/19 01:31	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_0519

Date Collected: 05/22/19 12:20
Date Received: 05/23/19 16:00

Lab Sample ID: 480-154071-7

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/31/19 01:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/31/19 01:31*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*05/31/19 01:31*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*05/31/19 01:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 18:56	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 18:56	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 18:56	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 18:56	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 18:56	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 18:56	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 18:56	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 18:56	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 18:56	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 18:56	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 18:56	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 18:56	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 18:56	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 18:56	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 18:56	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 18:56	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 18:56	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 18:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 18:56	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 18:56	1
Aniline	**0.65**	**J**	10	0.61	ug/L		05/28/19 15:45	06/04/19 18:56	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 18:56	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 18:56	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 18:56	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 18:56	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 18:56	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 18:56	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 18:56	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 18:56	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 18:56	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 18:56	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 18:56	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 18:56	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 18:56	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 18:56	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 18:56	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 18:56	1

Client Sample ID: BCC Area C PS-06_0519

Lab Sample ID: 480-154071-7

Date Collected: 05/22/19 12:20

Matrix: Ground Water

Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 18:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 18:56	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 18:56	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 18:56	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 18:56	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 18:56	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 18:56	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 18:56	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 18:56	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 18:56	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 18:56	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 18:56	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 18:56	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 18:56	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 18:56	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 18:56	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 18:56	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 18:56	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 18:56	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 18:56	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 18:56	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 18:56	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*41 - 120*	*05/28/19 15:45*	*06/04/19 18:56*	*1*
2-Fluorobiphenyl	*70*		*48 - 120*	*05/28/19 15:45*	*06/04/19 18:56*	*1*
2-Fluorophenol	*49*		*35 - 120*	*05/28/19 15:45*	*06/04/19 18:56*	*1*
Nitrobenzene-d5	*60*		*46 - 120*	*05/28/19 15:45*	*06/04/19 18:56*	*1*
Phenol-d5	*35*		*22 - 120*	*05/28/19 15:45*	*06/04/19 18:56*	*1*
p-Terphenyl-d14	*71*		*59 - 136*	*05/28/19 15:45*	*06/04/19 18:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 17:21	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 17:21	1
Arsenic	**0.063**		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 17:21	1
Barium	**0.0081**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 17:21	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 17:21	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 17:21	1
Calcium	**188**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:21	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 17:21	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 17:21	1
Copper	ND		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 17:21	1
Iron	**26.5**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 17:21	1
Lead	ND		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 17:21	1
Magnesium	**8.8**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 17:21	1
Manganese	**0.15**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 17:21	1
Nickel	ND		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 17:21	1
Potassium	**42.9**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:21	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_0519

Lab Sample ID: 480-154071-7

Date Collected: 05/22/19 12:20
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 17:21	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 17:21	1
Sodium	**35.8**	**B**	1.0	0.32	mg/L		05/29/19 07:33	06/01/19 10:46	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 17:21	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 17:21	1
Zinc	ND		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 17:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:09	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_D_0519

Lab Sample ID: 480-154071-8

Date Collected: 05/22/19 12:30
Date Received: 05/23/19 16:00

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/31/19 01:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/31/19 01:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/31/19 01:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/31/19 01:55	1
1,1-Dichloroethane	**1.2**		1.0	0.38	ug/L			05/31/19 01:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/31/19 01:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/31/19 01:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/31/19 01:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/31/19 01:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/31/19 01:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/31/19 01:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/31/19 01:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/31/19 01:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/31/19 01:55	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			05/31/19 01:55	1
2-Hexanone	ND		5.0	1.2	ug/L			05/31/19 01:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/31/19 01:55	1
Acetone	ND		10	3.0	ug/L			05/31/19 01:55	1
Benzene	ND		1.0	0.41	ug/L			05/31/19 01:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/31/19 01:55	1
Bromoform	ND		1.0	0.26	ug/L			05/31/19 01:55	1
Bromomethane	ND		1.0	0.69	ug/L			05/31/19 01:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/31/19 01:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/31/19 01:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/31/19 01:55	1
Chloroethane	ND		1.0	0.32	ug/L			05/31/19 01:55	1
Chloroform	ND		1.0	0.34	ug/L			05/31/19 01:55	1
Chloromethane	ND		1.0	0.35	ug/L			05/31/19 01:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/31/19 01:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/31/19 01:55	1
Cyclohexane	ND		1.0	0.18	ug/L			05/31/19 01:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/31/19 01:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/31/19 01:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/31/19 01:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/31/19 01:55	1
Methyl acetate	ND		2.5	1.3	ug/L			05/31/19 01:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/31/19 01:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/31/19 01:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/31/19 01:55	1
Styrene	ND		1.0	0.73	ug/L			05/31/19 01:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/31/19 01:55	1
Toluene	ND		1.0	0.51	ug/L			05/31/19 01:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/31/19 01:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/31/19 01:55	1
Trichloroethene	ND		1.0	0.46	ug/L			05/31/19 01:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/31/19 01:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/31/19 01:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/31/19 01:55	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_D_0519

Lab Sample ID: 480-154071-8

Date Collected: 05/22/19 12:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*05/31/19 01:55*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*05/31/19 01:55*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/31/19 01:55*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/31/19 01:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 22:47	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 22:47	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 22:47	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 22:47	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 22:47	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 22:47	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:47	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 22:47	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 22:47	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 22:47	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:47	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 22:47	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 22:47	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:47	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 22:47	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 22:47	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 22:47	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 22:47	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 22:47	1
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 22:47	1
Aniline	**0.66**	**J**	10	0.61	ug/L		05/28/19 15:45	06/04/19 22:47	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 22:47	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 22:47	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 22:47	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 22:47	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 22:47	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 22:47	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 22:47	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 22:47	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 22:47	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 22:47	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 22:47	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:47	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 22:47	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 22:47	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 22:47	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 22:47	1

Client Sample ID: BCC Area C PS-06_D_0519

Lab Sample ID: 480-154071-8

Date Collected: 05/22/19 12:30

Matrix: Ground Water

Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 22:47	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 22:47	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 22:47	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 22:47	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 22:47	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 22:47	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 22:47	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 22:47	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 22:47	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 22:47	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 22:47	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 22:47	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 22:47	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 22:47	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 22:47	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 22:47	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 22:47	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 22:47	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 22:47	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 22:47	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 22:47	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 22:47	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*109*		*41 - 120*	*05/28/19 15:45*	*06/04/19 22:47*	*1*
2-Fluorobiphenyl	*78*		*48 - 120*	*05/28/19 15:45*	*06/04/19 22:47*	*1*
2-Fluorophenol	*55*		*35 - 120*	*05/28/19 15:45*	*06/04/19 22:47*	*1*
Nitrobenzene-d5	*69*		*46 - 120*	*05/28/19 15:45*	*06/04/19 22:47*	*1*
Phenol-d5	*41*		*22 - 120*	*05/28/19 15:45*	*06/04/19 22:47*	*1*
p-Terphenyl-d14	*76*		*59 - 136*	*05/28/19 15:45*	*06/04/19 22:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 17:39	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 17:39	1
Arsenic	**0.063**		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 17:39	1
Barium	**0.0082**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 17:39	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 17:39	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 17:39	1
Calcium	**183**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:39	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 17:39	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 17:39	1
Copper	ND		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 17:39	1
Iron	**25.7**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 17:39	1
Lead	**0.0030**	**J**	0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 17:39	1
Magnesium	**8.6**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 17:39	1
Manganese	**0.14**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 17:39	1
Nickel	ND		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 17:39	1
Potassium	**41.7**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:39	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_D_0519

Lab Sample ID: 480-154071-8

Date Collected: 05/22/19 12:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 17:39	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 17:39	1
Sodium	**34.6**	**B ^**	1.0	0.32	mg/L		05/29/19 07:33	05/31/19 17:39	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 17:39	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 17:39	1
Zinc	ND		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 17:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 14:16	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-154071-9

Date Collected: 05/22/19 00:00
Date Received: 05/23/19 16:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/31/19 02:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/31/19 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/31/19 02:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/31/19 02:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/31/19 02:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/31/19 02:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/31/19 02:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/31/19 02:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/31/19 02:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/31/19 02:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/31/19 02:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/31/19 02:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/31/19 02:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/31/19 02:19	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			05/31/19 02:19	1
2-Hexanone	ND		5.0	1.2	ug/L			05/31/19 02:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/31/19 02:19	1
Acetone	ND		10	3.0	ug/L			05/31/19 02:19	1
Benzene	ND		1.0	0.41	ug/L			05/31/19 02:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/31/19 02:19	1
Bromoform	ND		1.0	0.26	ug/L			05/31/19 02:19	1
Bromomethane	ND		1.0	0.69	ug/L			05/31/19 02:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/31/19 02:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/31/19 02:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/31/19 02:19	1
Chloroethane	ND		1.0	0.32	ug/L			05/31/19 02:19	1
Chloroform	ND		1.0	0.34	ug/L			05/31/19 02:19	1
Chloromethane	ND		1.0	0.35	ug/L			05/31/19 02:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/31/19 02:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/31/19 02:19	1
Cyclohexane	ND		1.0	0.18	ug/L			05/31/19 02:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/31/19 02:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/31/19 02:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/31/19 02:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/31/19 02:19	1
Methyl acetate	ND		2.5	1.3	ug/L			05/31/19 02:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/31/19 02:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/31/19 02:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/31/19 02:19	1
Styrene	ND		1.0	0.73	ug/L			05/31/19 02:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/31/19 02:19	1
Toluene	ND		1.0	0.51	ug/L			05/31/19 02:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/31/19 02:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/31/19 02:19	1
Trichloroethene	ND		1.0	0.46	ug/L			05/31/19 02:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/31/19 02:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/31/19 02:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/31/19 02:19	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-154071-9

Date Collected: 05/22/19 00:00

Matrix: Water

Date Received: 05/23/19 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		05/31/19 02:19	1
4-Bromofluorobenzene (Surr)	91		73 - 120		05/31/19 02:19	1
Toluene-d8 (Surr)	90		80 - 120		05/31/19 02:19	1
Dibromofluoromethane (Surr)	94		75 - 123		05/31/19 02:19	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01F_0519

Lab Sample ID: 480-154071-10

Date Collected: 05/22/19 09:30
Date Received: 05/23/19 16:00

Matrix: Ground Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.071**	**J**	0.20	0.060	mg/L		05/29/19 07:33	05/31/19 17:43	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 17:43	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 17:43	1
Barium	**0.76**		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 17:43	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 17:43	1
Cadmium	**0.0011**	**J**	0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 17:43	1
Calcium	**866**		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:43	1
Chromium	**0.0011**	**J**	0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 17:43	1
Cobalt	**0.0078**		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 17:43	1
Copper	**0.0080**	**J**	0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 17:43	1
Iron	**8.4**		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 17:43	1
Lead	**0.0052**	**J**	0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 17:43	1
Magnesium	**362**		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 17:43	1
Manganese	**1.6**		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 17:43	1
Nickel	**0.010**		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 17:43	1
Potassium	**28.3**	**B**	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 17:43	1
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 17:43	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 17:43	1
Sodium	**9980**	**B**	20.0	6.5	mg/L		05/29/19 07:33	06/19/19 14:45	20
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 17:43	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 17:43	1
Zinc	**0.15**		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 17:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0010	0.00060	mg/L		05/30/19 11:15	05/30/19 14:17	1

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-154071-1	BCC Area C MW-C01_0519	96	91	92	92
480-154071-2	BCC Area C RFI-31_0519	105	103	100	105
480-154071-3	BCC Area C PS-04_0519	102	92	92	95
480-154071-4	BCC Area C MW-C04_0519	99	92	92	95
480-154071-5	BCC Area C RFI-20_0519	97	90	91	94
480-154071-6	BCC Area C PS-05A_0519	104	102	98	105
480-154071-7	BCC Area C PS-06_0519	99	89	90	92
480-154071-8	BCC Area C PS-06_D_0519	95	88	89	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-154071-7 MS	BCC Area C PS-06_MS_0519	96	93	92	95
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	102	95	92	98
480-154071-9	TRIP BLANK	97	91	90	94
LCS 480-475384/5	Lab Control Sample	98	91	91	95
LCS 480-475683/5	Lab Control Sample	109	98	102	101
MB 480-475384/8	Method Blank	95	91	90	93
MB 480-475683/7	Method Blank	106	101	102	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-154071-1	BCC Area C MW-C01_0519	86	100	72	80	54	77
480-154071-2	BCC Area C RFI-31_0519	95	73	54	64	40	71
480-154071-3	BCC Area C PS-04_0519	97	86	64	78	47	80
480-154071-4	BCC Area C MW-C04_0519	103	81	57	72	43	76
480-154071-5	BCC Area C RFI-20_0519	87	73	50	64	37	74
480-154071-6	BCC Area C PS-05A_0519	104	87	65	77	47	81
480-154071-7	BCC Area C PS-06_0519	90	70	49	60	35	71
480-154071-8	BCC Area C PS-06_D_0519	109	78	55	69	41	76

Surrogate Legend

TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Job ID: 480-154071-1
Project/Site: Buffalo Color Area C Wells

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	**Client Sample ID**	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-154071-7 MS	BCC Area C PS-06_MS_0519	113	92	72	90	55	81
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	112	93	72	94	56	75
LCS 480-474957/2-A	Lab Control Sample	97	86	65	85	52	93
MB 480-474957/1-A	Method Blank	87	91	72	84	52	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-475384/8
Matrix: Water
Analysis Batch: 475384

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/30/19 22:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/30/19 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/30/19 22:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/30/19 22:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/30/19 22:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/30/19 22:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/30/19 22:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/30/19 22:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/30/19 22:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/30/19 22:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/30/19 22:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/30/19 22:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/30/19 22:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/30/19 22:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/30/19 22:18	1
2-Hexanone	ND		5.0	1.2	ug/L			05/30/19 22:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/30/19 22:18	1
Acetone	ND		10	3.0	ug/L			05/30/19 22:18	1
Benzene	ND		1.0	0.41	ug/L			05/30/19 22:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/30/19 22:18	1
Bromoform	ND		1.0	0.26	ug/L			05/30/19 22:18	1
Bromomethane	ND		1.0	0.69	ug/L			05/30/19 22:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/30/19 22:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/30/19 22:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/30/19 22:18	1
Chloroethane	ND		1.0	0.32	ug/L			05/30/19 22:18	1
Chloroform	ND		1.0	0.34	ug/L			05/30/19 22:18	1
Chloromethane	ND		1.0	0.35	ug/L			05/30/19 22:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/30/19 22:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/30/19 22:18	1
Cyclohexane	ND		1.0	0.18	ug/L			05/30/19 22:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/30/19 22:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/30/19 22:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/30/19 22:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/30/19 22:18	1
Methyl acetate	ND		2.5	1.3	ug/L			05/30/19 22:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/30/19 22:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/30/19 22:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/30/19 22:18	1
Styrene	ND		1.0	0.73	ug/L			05/30/19 22:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/30/19 22:18	1
Toluene	ND		1.0	0.51	ug/L			05/30/19 22:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/30/19 22:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/30/19 22:18	1
Trichloroethene	ND		1.0	0.46	ug/L			05/30/19 22:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/30/19 22:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/30/19 22:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/30/19 22:18	1

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

Lab Sample ID: MB 480-475384/8
Matrix: Water
Analysis Batch: 475384

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		05/30/19 22:18	1
4-Bromofluorobenzene (Surr)	91		73 - 120		05/30/19 22:18	1
Toluene-d8 (Surr)	90		80 - 120		05/30/19 22:18	1
Dibromofluoromethane (Surr)	93		75 - 123		05/30/19 22:18	1

Lab Sample ID: LCS 480-475384/5
Matrix: Water
Analysis Batch: 475384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.8		ug/L		91	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.3		ug/L		85	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.1		ug/L		84	61 - 148
1,1,2-Trichloroethane	25.0	23.1		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	23.9		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	18.4		ug/L		74	66 - 127
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.0		ug/L		76	56 - 134
1,2-Dibromoethane	25.0	22.8		ug/L		91	77 - 120
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	24.1		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	22.2		ug/L		89	77 - 120
1,4-Dichlorobenzene	25.0	22.1		ug/L		88	80 - 120
2-Butanone (MEK)	125	195	*	ug/L		156	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	71 - 125
Acetone	125	109		ug/L		88	56 - 142
Benzene	25.0	22.7		ug/L		91	71 - 124
Bromodichloromethane	25.0	23.6		ug/L		94	80 - 122
Bromoform	25.0	23.6		ug/L		95	61 - 132
Bromomethane	25.0	21.3		ug/L		85	55 - 144
Carbon disulfide	25.0	18.0		ug/L		72	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	22.9		ug/L		91	80 - 120
Chloroethane	25.0	21.8		ug/L		87	69 - 136
Chloroform	25.0	22.5		ug/L		90	73 - 127
Chloromethane	25.0	22.7		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	21.7		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	74 - 124
Cyclohexane	25.0	23.8		ug/L		95	59 - 135
Dibromochloromethane	25.0	25.7		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	21.9		ug/L		88	59 - 135
Ethylbenzene	25.0	22.2		ug/L		89	77 - 123
Isopropylbenzene	25.0	22.5		ug/L		90	77 - 122
Methyl acetate	50.0	42.7		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	21.6		ug/L		86	77 - 120
Methylcyclohexane	25.0	22.2		ug/L		89	68 - 134

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

Lab Sample ID: LCS 480-475384/5
Matrix: Water
Analysis Batch: 475384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	20.9		ug/L		83	75 - 124
Styrene	25.0	22.2		ug/L		89	80 - 120
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	20.8		ug/L		83	73 - 127
trans-1,3-Dichloropropene	25.0	22.1		ug/L		88	80 - 120
Trichloroethene	25.0	22.7		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	23.1		ug/L		92	62 - 150
Vinyl chloride	25.0	22.5		ug/L		90	65 - 133
Xylenes, Total	50.0	43.9		ug/L		88	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*
Toluene-d8 (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: 480-154071-7 MS
Matrix: Water
Analysis Batch: 475384

Client Sample ID: BCC Area C PS-06_MS_0519
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	23.3		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	21.5		ug/L		86	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	20.4		ug/L		82	61 - 148
1,1,2-Trichloroethane	ND		25.0	23.0		ug/L		92	76 - 122
1,1-Dichloroethane	1.0		25.0	25.1		ug/L		96	77 - 120
1,1-Dichloroethene	ND		25.0	19.6		ug/L		78	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	23.1		ug/L		92	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	19.1		ug/L		76	56 - 134
1,2-Dibromoethane	ND		25.0	22.9		ug/L		91	77 - 120
1,2-Dichlorobenzene	ND		25.0	22.8		ug/L		91	80 - 124
1,2-Dichloroethane	ND		25.0	23.3		ug/L		93	75 - 120
1,2-Dichloropropane	ND		25.0	24.7		ug/L		99	76 - 120
1,3-Dichlorobenzene	ND		25.0	21.8		ug/L		87	77 - 120
1,4-Dichlorobenzene	ND		25.0	21.8		ug/L		87	78 - 124
2-Butanone (MEK)	ND	*	125	97.0		ug/L		78	57 - 140
2-Hexanone	ND		125	109		ug/L		88	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	111		ug/L		89	71 - 125
Acetone	ND		125	96.8		ug/L		77	56 - 142
Benzene	ND		25.0	23.5		ug/L		94	71 - 124
Bromodichloromethane	ND		25.0	22.2		ug/L		89	80 - 122
Bromoform	ND		25.0	21.3		ug/L		85	61 - 132
Bromomethane	ND		25.0	21.7		ug/L		87	55 - 144
Carbon disulfide	ND		25.0	18.7		ug/L		75	59 - 134
Carbon tetrachloride	ND		25.0	25.9		ug/L		104	72 - 134
Chlorobenzene	ND		25.0	23.3		ug/L		93	80 - 120
Chloroethane	ND		25.0	22.4		ug/L		90	69 - 136

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

Lab Sample ID: 480-154071-7 MS
Matrix: Water
Analysis Batch: 475384

Client Sample ID: BCC Area C PS-06_MS_0519
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	ND		25.0	21.9		ug/L		88	73 - 127
Chloromethane	ND		25.0	25.0		ug/L		100	68 - 124
cis-1,2-Dichloroethene	ND		25.0	21.9		ug/L		88	74 - 124
cis-1,3-Dichloropropene	ND		25.0	21.9		ug/L		88	74 - 124
Cyclohexane	ND		25.0	23.5		ug/L		94	59 - 135
Dibromochloromethane	ND		25.0	23.3		ug/L		93	75 - 125
Dichlorodifluoromethane	ND		25.0	20.9		ug/L		83	59 - 135
Ethylbenzene	ND		25.0	23.1		ug/L		92	77 - 123
Isopropylbenzene	ND		25.0	23.4		ug/L		94	77 - 122
Methyl acetate	ND	F1	50.0	36.9		ug/L		74	74 - 133
Methyl tert-butyl ether	ND		25.0	21.7		ug/L		87	77 - 120
Methylcyclohexane	ND		25.0	21.1		ug/L		85	68 - 134
Methylene Chloride	ND		25.0	20.7		ug/L		83	75 - 124
Styrene	ND		25.0	20.2		ug/L		81	80 - 120
Tetrachloroethene	ND		25.0	24.3		ug/L		97	74 - 122
Toluene	ND		25.0	22.8		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		25.0	22.1		ug/L		89	73 - 127
trans-1,3-Dichloropropene	ND		25.0	21.2		ug/L		85	80 - 120
Trichloroethene	ND		25.0	23.3		ug/L		93	74 - 123
Trichlorofluoromethane	ND		25.0	22.5		ug/L		90	62 - 150
Vinyl chloride	ND		25.0	24.4		ug/L		97	65 - 133
Xylenes, Total	ND		50.0	45.3		ug/L		91	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: 480-154071-7 MSD
Matrix: Water
Analysis Batch: 475384

Client Sample ID: BCC Area C PS-06_MSD_0519
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	24.6		ug/L		98	73 - 126	5	15
1,1,2,2-Tetrachloroethane	ND		25.0	21.1		ug/L		84	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		25.0	21.7		ug/L		87	61 - 148	6	20
1,1,2-Trichloroethane	ND		25.0	21.9		ug/L		88	76 - 122	5	15
1,1-Dichloroethane	1.0		25.0	25.9		ug/L		99	77 - 120	3	20
1,1-Dichloroethene	ND		25.0	20.5		ug/L		82	66 - 127	4	16
1,2,4-Trichlorobenzene	ND		25.0	23.2		ug/L		93	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	18.9		ug/L		76	56 - 134	1	15
1,2-Dibromoethane	ND		25.0	22.2		ug/L		89	77 - 120	3	15
1,2-Dichlorobenzene	ND		25.0	22.5		ug/L		90	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	22.6		ug/L		90	75 - 120	3	20
1,2-Dichloropropane	ND		25.0	25.1		ug/L		101	76 - 120	2	20
1,3-Dichlorobenzene	ND		25.0	22.3		ug/L		89	77 - 120	2	20
1,4-Dichlorobenzene	ND		25.0	22.5		ug/L		90	78 - 124	3	20

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

Lab Sample ID: 480-154071-7 MSD
Matrix: Water
Analysis Batch: 475384

Client Sample ID: BCC Area C PS-06_MSD_0519
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND	*	125	94.1		ug/L		75	57 - 140	3	20
2-Hexanone	ND		125	108		ug/L		86	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		125	109		ug/L		87	71 - 125	2	35
Acetone	ND		125	92.0		ug/L		74	56 - 142	5	15
Benzene	ND		25.0	23.6		ug/L		94	71 - 124	1	13
Bromodichloromethane	ND		25.0	22.5		ug/L		90	80 - 122	1	15
Bromoform	ND		25.0	20.8		ug/L		83	61 - 132	2	15
Bromomethane	ND		25.0	24.3		ug/L		97	55 - 144	11	15
Carbon disulfide	ND		25.0	19.2		ug/L		77	59 - 134	3	15
Carbon tetrachloride	ND		25.0	26.8		ug/L		107	72 - 134	3	15
Chlorobenzene	ND		25.0	22.2		ug/L		89	80 - 120	5	25
Chloroethane	ND		25.0	25.1		ug/L		100	69 - 136	11	15
Chloroform	ND		25.0	22.3		ug/L		89	73 - 127	2	20
Chloromethane	ND		25.0	27.5		ug/L		110	68 - 124	10	15
cis-1,2-Dichloroethene	ND		25.0	22.5		ug/L		90	74 - 124	3	15
cis-1,3-Dichloropropene	ND		25.0	21.4		ug/L		86	74 - 124	2	15
Cyclohexane	ND		25.0	24.2		ug/L		97	59 - 135	3	20
Dibromochloromethane	ND		25.0	24.1		ug/L		96	75 - 125	3	15
Dichlorodifluoromethane	ND		25.0	24.0		ug/L		96	59 - 135	14	20
Ethylbenzene	ND		25.0	23.0		ug/L		92	77 - 123	0	15
Isopropylbenzene	ND		25.0	24.3		ug/L		97	77 - 122	4	20
Methyl acetate	ND	F1	50.0	35.8	F1	ug/L		72	74 - 133	3	20
Methyl tert-butyl ether	ND		25.0	21.5		ug/L		86	77 - 120	1	37
Methylcyclohexane	ND		25.0	21.5		ug/L		86	68 - 134	2	20
Methylene Chloride	ND		25.0	20.8		ug/L		83	75 - 124	1	15
Styrene	ND		25.0	19.9		ug/L		80	80 - 120	1	20
Tetrachloroethene	ND		25.0	24.1		ug/L		96	74 - 122	1	20
Toluene	ND		25.0	22.8		ug/L		91	80 - 122	0	15
trans-1,2-Dichloroethene	ND		25.0	21.9		ug/L		88	73 - 127	1	20
trans-1,3-Dichloropropene	ND		25.0	21.0		ug/L		84	80 - 120	1	15
Trichloroethene	ND		25.0	24.0		ug/L		96	74 - 123	3	16
Trichlorofluoromethane	ND		25.0	26.2		ug/L		105	62 - 150	15	20
Vinyl chloride	ND		25.0	28.3		ug/L		113	65 - 133	15	15
Xylenes, Total	ND		50.0	44.9		ug/L		90	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: MB 480-475683/7
Matrix: Water
Analysis Batch: 475683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/01/19 12:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/01/19 12:21	1

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

Lab Sample ID: MB 480-475683/7
Matrix: Water
Analysis Batch: 475683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/01/19 12:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/01/19 12:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/01/19 12:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/01/19 12:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/01/19 12:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/01/19 12:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/01/19 12:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/01/19 12:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/01/19 12:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/01/19 12:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/01/19 12:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/01/19 12:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/01/19 12:21	1
2-Hexanone	ND		5.0	1.2	ug/L			06/01/19 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/01/19 12:21	1
Acetone	ND		10	3.0	ug/L			06/01/19 12:21	1
Benzene	ND		1.0	0.41	ug/L			06/01/19 12:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/01/19 12:21	1
Bromoform	ND		1.0	0.26	ug/L			06/01/19 12:21	1
Bromomethane	ND		1.0	0.69	ug/L			06/01/19 12:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/01/19 12:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/01/19 12:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/01/19 12:21	1
Chloroethane	ND		1.0	0.32	ug/L			06/01/19 12:21	1
Chloroform	ND		1.0	0.34	ug/L			06/01/19 12:21	1
Chloromethane	ND		1.0	0.35	ug/L			06/01/19 12:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/01/19 12:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/01/19 12:21	1
Cyclohexane	ND		1.0	0.18	ug/L			06/01/19 12:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/01/19 12:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/01/19 12:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/01/19 12:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/01/19 12:21	1
Methyl acetate	ND		2.5	1.3	ug/L			06/01/19 12:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/01/19 12:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/01/19 12:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/01/19 12:21	1
Styrene	ND		1.0	0.73	ug/L			06/01/19 12:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/01/19 12:21	1
Toluene	ND		1.0	0.51	ug/L			06/01/19 12:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/01/19 12:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/01/19 12:21	1
Trichloroethene	ND		1.0	0.46	ug/L			06/01/19 12:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/01/19 12:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/01/19 12:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/01/19 12:21	1

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

Lab Sample ID: MB 480-475683/7
Matrix: Water
Analysis Batch: 475683

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		06/01/19 12:21	1
4-Bromofluorobenzene (Surr)	101		73 - 120		06/01/19 12:21	1
Toluene-d8 (Surr)	102		80 - 120		06/01/19 12:21	1
Dibromofluoromethane (Surr)	104		75 - 123		06/01/19 12:21	1

Lab Sample ID: LCS 480-475683/5
Matrix: Water
Analysis Batch: 475683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.1		ug/L		109	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8		ug/L		115	61 - 148
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	27.5		ug/L		110	77 - 120
1,1-Dichloroethene	25.0	28.5		ug/L		114	66 - 127
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	56 - 134
1,2-Dibromoethane	25.0	26.1		ug/L		104	77 - 120
1,2-Dichlorobenzene	25.0	28.2		ug/L		113	80 - 124
1,2-Dichloroethane	25.0	27.6		ug/L		110	75 - 120
1,2-Dichloropropane	25.0	27.6		ug/L		110	76 - 120
1,3-Dichlorobenzene	25.0	27.6		ug/L		111	77 - 120
1,4-Dichlorobenzene	25.0	26.8		ug/L		107	80 - 120
2-Butanone (MEK)	125	133		ug/L		107	57 - 140
2-Hexanone	125	130		ug/L		104	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	71 - 125
Acetone	125	133		ug/L		106	56 - 142
Benzene	25.0	28.1		ug/L		112	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		102	80 - 122
Bromoform	25.0	22.3		ug/L		89	61 - 132
Bromomethane	25.0	25.1		ug/L		100	55 - 144
Carbon disulfide	25.0	28.4		ug/L		114	59 - 134
Carbon tetrachloride	25.0	25.5		ug/L		102	72 - 134
Chlorobenzene	25.0	28.0		ug/L		112	80 - 120
Chloroethane	25.0	25.9		ug/L		104	69 - 136
Chloroform	25.0	24.9		ug/L		100	73 - 127
Chloromethane	25.0	27.4		ug/L		109	68 - 124
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	74 - 124
Cyclohexane	25.0	26.6		ug/L		107	59 - 135
Dibromochloromethane	25.0	24.8		ug/L		99	75 - 125
Dichlorodifluoromethane	25.0	31.1		ug/L		124	59 - 135
Ethylbenzene	25.0	27.4		ug/L		110	77 - 123
Isopropylbenzene	25.0	27.8		ug/L		111	77 - 122
Methyl acetate	50.0	54.7		ug/L		109	74 - 133
Methyl tert-butyl ether	25.0	25.9		ug/L		104	77 - 120
Methylcyclohexane	25.0	26.6		ug/L		106	68 - 134

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

Lab Sample ID: LCS 480-475683/5
Matrix: Water
Analysis Batch: 475683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	25.7		ug/L		103	75 - 124
Styrene	25.0	26.7		ug/L		107	80 - 120
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122
Toluene	25.0	27.5		ug/L		110	80 - 122
trans-1,2-Dichloroethene	25.0	27.6		ug/L		110	73 - 127
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	80 - 120
Trichloroethene	25.0	28.0		ug/L		112	74 - 123
Trichlorofluoromethane	25.0	28.7		ug/L		115	62 - 150
Vinyl chloride	25.0	29.0		ug/L		116	65 - 133
Xylenes, Total	50.0	54.6		ug/L		109	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: MB 480-474957/1-A
Matrix: Water
Analysis Batch: 476098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 16:02	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/28/19 15:45	06/04/19 16:02	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 16:02	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/28/19 15:45	06/04/19 16:02	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 16:02	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 16:02	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 16:02	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 16:02	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/28/19 15:45	06/04/19 16:02	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/28/19 15:45	06/04/19 16:02	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 16:02	1
2-Nitroaniline	ND		10	0.42	ug/L		05/28/19 15:45	06/04/19 16:02	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/28/19 15:45	06/04/19 16:02	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 16:02	1
3-Nitroaniline	ND		10	0.48	ug/L		05/28/19 15:45	06/04/19 16:02	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Methylphenol	ND		10	0.36	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Nitroaniline	ND		10	0.25	ug/L		05/28/19 15:45	06/04/19 16:02	1
4-Nitrophenol	ND		10	1.5	ug/L		05/28/19 15:45	06/04/19 16:02	1
Acenaphthene	ND		5.0	0.41	ug/L		05/28/19 15:45	06/04/19 16:02	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/28/19 15:45	06/04/19 16:02	1

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

Lab Sample ID: MB 480-474957/1-A
Matrix: Water
Analysis Batch: 476098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 16:02	1
Aniline	ND		10	0.61	ug/L		05/28/19 15:45	06/04/19 16:02	1
Anthracene	ND		5.0	0.28	ug/L		05/28/19 15:45	06/04/19 16:02	1
Atrazine	ND		5.0	0.46	ug/L		05/28/19 15:45	06/04/19 16:02	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/28/19 15:45	06/04/19 16:02	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 16:02	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 16:02	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 16:02	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 16:02	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		05/28/19 15:45	06/04/19 16:02	1
Biphenyl	ND		5.0	0.65	ug/L		05/28/19 15:45	06/04/19 16:02	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/28/19 15:45	06/04/19 16:02	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/28/19 15:45	06/04/19 16:02	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 16:02	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 16:02	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/28/19 15:45	06/04/19 16:02	1
Caprolactam	ND		5.0	2.2	ug/L		05/28/19 15:45	06/04/19 16:02	1
Carbazole	ND		5.0	0.30	ug/L		05/28/19 15:45	06/04/19 16:02	1
Chrysene	ND		5.0	0.33	ug/L		05/28/19 15:45	06/04/19 16:02	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/28/19 15:45	06/04/19 16:02	1
Dibenzofuran	ND		10	0.51	ug/L		05/28/19 15:45	06/04/19 16:02	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/28/19 15:45	06/04/19 16:02	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 16:02	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/28/19 15:45	06/04/19 16:02	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 16:02	1
Fluoranthene	ND		5.0	0.40	ug/L		05/28/19 15:45	06/04/19 16:02	1
Fluorene	ND		5.0	0.36	ug/L		05/28/19 15:45	06/04/19 16:02	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 16:02	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/28/19 15:45	06/04/19 16:02	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 16:02	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/28/19 15:45	06/04/19 16:02	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		05/28/19 15:45	06/04/19 16:02	1
Isophorone	ND		5.0	0.43	ug/L		05/28/19 15:45	06/04/19 16:02	1
Naphthalene	ND		5.0	0.76	ug/L		05/28/19 15:45	06/04/19 16:02	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/28/19 15:45	06/04/19 16:02	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/28/19 15:45	06/04/19 16:02	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/28/19 15:45	06/04/19 16:02	1
Pentachlorophenol	ND		10	2.2	ug/L		05/28/19 15:45	06/04/19 16:02	1
Phenanthrene	ND		5.0	0.44	ug/L		05/28/19 15:45	06/04/19 16:02	1
Phenol	ND		5.0	0.39	ug/L		05/28/19 15:45	06/04/19 16:02	1
Pyrene	ND		5.0	0.34	ug/L		05/28/19 15:45	06/04/19 16:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*41 - 120*	*05/28/19 15:45*	*06/04/19 16:02*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*05/28/19 15:45*	*06/04/19 16:02*	*1*
2-Fluorophenol	*72*		*35 - 120*	*05/28/19 15:45*	*06/04/19 16:02*	*1*
Nitrobenzene-d5	*84*		*46 - 120*	*05/28/19 15:45*	*06/04/19 16:02*	*1*
Phenol-d5	*52*		*22 - 120*	*05/28/19 15:45*	*06/04/19 16:02*	*1*

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

Lab Sample ID: MB 480-474957/1-A
Matrix: Water
Analysis Batch: 476098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474957

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	98		59 - 136	05/28/19 15:45	06/04/19 16:02	1

Lab Sample ID: LCS 480-474957/2-A
Matrix: Water
Analysis Batch: 476098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	30.1		ug/L		94	65 - 126
2,4,6-Trichlorophenol	32.0	29.1		ug/L		91	64 - 120
2,4-Dichlorophenol	32.0	28.0		ug/L		88	63 - 120
2,4-Dimethylphenol	32.0	27.3		ug/L		85	47 - 120
2,4-Dinitrophenol	64.0	65.8		ug/L		103	31 - 137
2,4-Dinitrotoluene	32.0	31.4		ug/L		98	69 - 120
2,6-Dinitrotoluene	32.0	31.0		ug/L		97	68 - 120
2-Chloronaphthalene	32.0	26.7		ug/L		84	58 - 120
2-Chlorophenol	32.0	26.3		ug/L		82	48 - 120
2-Methylnaphthalene	32.0	28.0		ug/L		87	59 - 120
2-Methylphenol	32.0	25.9		ug/L		81	39 - 120
2-Nitroaniline	32.0	29.8		ug/L		93	54 - 127
2-Nitrophenol	32.0	29.6		ug/L		92	52 - 125
3,3'-Dichlorobenzidine	64.0	63.7		ug/L		100	49 - 135
3-Nitroaniline	32.0	27.0		ug/L		85	51 - 120
4,6-Dinitro-2-methylphenol	64.0	71.1		ug/L		111	46 - 136
4-Bromophenyl phenyl ether	32.0	29.4		ug/L		92	65 - 120
4-Chloro-3-methylphenol	32.0	29.5		ug/L		92	61 - 123
4-Chloroaniline	32.0	25.8		ug/L		81	30 - 120
4-Chlorophenyl phenyl ether	32.0	29.1		ug/L		91	62 - 120
4-Methylphenol	32.0	24.7		ug/L		77	29 - 131
4-Nitroaniline	32.0	30.6		ug/L		96	65 - 120
4-Nitrophenol	64.0	48.9		ug/L		76	45 - 120
Acenaphthene	32.0	28.4		ug/L		89	60 - 120
Acenaphthylene	32.0	29.9		ug/L		94	63 - 120
Acetophenone	32.0	27.1		ug/L		85	45 - 120
Aniline	32.0	21.4		ug/L		67	12 - 120
Anthracene	32.0	29.4		ug/L		92	67 - 120
Atrazine	64.0	71.1		ug/L		111	71 - 130
Benzaldehyde	64.0	50.2		ug/L		78	10 - 140
Benzo(a)anthracene	32.0	30.5		ug/L		95	70 - 121
Benzo(a)pyrene	32.0	29.0		ug/L		91	60 - 123
Benzo(b)fluoranthene	32.0	32.7		ug/L		102	66 - 126
Benzo(g,h,i)perylene	32.0	30.5		ug/L		95	66 - 150
Benzo(k)fluoranthene	32.0	31.1		ug/L		97	65 - 124
Biphenyl	32.0	27.2		ug/L		85	59 - 120
bis (2-chloroisopropyl) ether	32.0	25.4		ug/L		80	21 - 136
Bis(2-chloroethoxy)methane	32.0	27.8		ug/L		87	50 - 128
Bis(2-chloroethyl)ether	32.0	26.6		ug/L		83	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.4		ug/L		95	63 - 139
Butyl benzyl phthalate	32.0	30.5		ug/L		95	70 - 129

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

Lab Sample ID: LCS 480-474957/2-A
Matrix: Water
Analysis Batch: 476098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	64.0	21.3		ug/L		33	22 - 120
Carbazole	32.0	31.6		ug/L		99	66 - 123
Chrysene	32.0	30.4		ug/L		95	69 - 120
Dibenz(a,h)anthracene	32.0	30.4		ug/L		95	65 - 135
Dibenzofuran	32.0	28.5		ug/L		89	66 - 120
Diethyl phthalate	32.0	30.9		ug/L		97	59 - 127
Dimethyl phthalate	32.0	30.1		ug/L		94	68 - 120
Di-n-butyl phthalate	32.0	31.4		ug/L		98	69 - 131
Di-n-octyl phthalate	32.0	31.5		ug/L		98	63 - 140
Fluoranthene	32.0	31.1		ug/L		97	69 - 126
Fluorene	32.0	29.2		ug/L		91	66 - 120
Hexachlorobenzene	32.0	29.2		ug/L		91	61 - 120
Hexachlorobutadiene	32.0	24.2		ug/L		76	35 - 120
Hexachlorocyclopentadiene	32.0	21.9		ug/L		68	31 - 120
Hexachloroethane	32.0	23.0		ug/L		72	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	30.2		ug/L		94	69 - 146
Isophorone	32.0	28.4		ug/L		89	55 - 120
Naphthalene	32.0	26.8		ug/L		84	57 - 120
Nitrobenzene	32.0	27.7		ug/L		87	53 - 123
N-Nitrosodi-n-propylamine	32.0	26.4		ug/L		83	32 - 140
N-Nitrosodiphenylamine	32.0	29.2		ug/L		91	61 - 120
Pentachlorophenol	64.0	60.0		ug/L		94	29 - 136
Phenanthrene	32.0	28.4		ug/L		89	68 - 120
Phenol	32.0	17.6		ug/L		55	17 - 120
Pyrene	32.0	30.3		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*41 - 120*
2-Fluorobiphenyl	*86*		*48 - 120*
2-Fluorophenol	*65*		*35 - 120*
Nitrobenzene-d5	*85*		*46 - 120*
Phenol-d5	*52*		*22 - 120*
p-Terphenyl-d14	*93*		*59 - 136*

Lab Sample ID: 480-154071-7 MS
Matrix: Water
Analysis Batch: 476098

Client Sample ID: BCC Area C PS-06_MS_0519
Prep Type: Total/NA
Prep Batch: 474957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	30.1		ug/L		94	65 - 126
2,4,6-Trichlorophenol	ND		32.0	33.3		ug/L		104	64 - 120
2,4-Dichlorophenol	ND		32.0	29.6		ug/L		92	48 - 132
2,4-Dimethylphenol	ND		32.0	30.0		ug/L		94	39 - 130
2,4-Dinitrophenol	ND		64.0	79.8		ug/L		125	21 - 150
2,4-Dinitrotoluene	ND		32.0	34.3		ug/L		107	54 - 138
2,6-Dinitrotoluene	ND		32.0	33.6		ug/L		105	17 - 150
2-Chloronaphthalene	ND		32.0	28.8		ug/L		90	52 - 124
2-Chlorophenol	ND		32.0	28.9		ug/L		90	48 - 120

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

Lab Sample ID: 480-154071-7 MS — **Client Sample ID: BCC Area C PS-06_MS_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 476098 — **Prep Batch: 474957**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		32.0	29.8		ug/L		93	34 - 140
2-Methylphenol	ND		32.0	27.9		ug/L		87	46 - 120
2-Nitroaniline	ND		32.0	33.0		ug/L		103	44 - 136
2-Nitrophenol	ND		32.0	31.5		ug/L		99	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	43.6		ug/L		68	10 - 150
3-Nitroaniline	ND		32.0	22.2		ug/L		69	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	82.6		ug/L		129	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	32.1		ug/L		100	63 - 126
4-Chloro-3-methylphenol	ND		32.0	31.5		ug/L		98	64 - 127
4-Chloroaniline	ND		32.0	19.7		ug/L		61	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	31.0		ug/L		97	61 - 120
4-Methylphenol	ND		32.0	26.3		ug/L		82	36 - 120
4-Nitroaniline	ND		32.0	31.5		ug/L		99	32 - 150
4-Nitrophenol	ND		64.0	51.4		ug/L		80	23 - 132
Acenaphthene	ND		32.0	29.9		ug/L		93	48 - 120
Acenaphthylene	ND		32.0	31.9		ug/L		100	63 - 120
Acetophenone	ND		32.0	29.1		ug/L		91	53 - 120
Aniline	0.65	J	32.0	20.9		ug/L		63	32 - 120
Anthracene	ND		32.0	31.7		ug/L		99	65 - 122
Atrazine	ND		64.0	69.9		ug/L		109	50 - 150
Benzaldehyde	ND		64.0	51.0		ug/L		80	10 - 150
Benzo(a)anthracene	ND		32.0	30.9		ug/L		97	43 - 124
Benzo(a)pyrene	ND		32.0	27.5		ug/L		86	23 - 125
Benzo(b)fluoranthene	ND		32.0	31.0		ug/L		97	27 - 127
Benzo(g,h,i)perylene	ND		32.0	29.3		ug/L		91	16 - 147
Benzo(k)fluoranthene	ND		32.0	30.0		ug/L		94	20 - 124
Biphenyl	ND		32.0	29.3		ug/L		92	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	26.8		ug/L		84	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	28.7		ug/L		90	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	31.4		ug/L		98	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	31.1		ug/L		97	16 - 150
Butyl benzyl phthalate	ND		32.0	32.3		ug/L		101	51 - 140
Caprolactam	ND		64.0	21.9		ug/L		34	10 - 120
Carbazole	ND		32.0	35.9		ug/L		112	16 - 148
Chrysene	ND		32.0	30.4		ug/L		95	44 - 122
Dibenz(a,h)anthracene	ND		32.0	28.3		ug/L		88	16 - 139
Dibenzofuran	ND		32.0	30.4		ug/L		95	60 - 120
Diethyl phthalate	ND		32.0	33.6		ug/L		105	53 - 133
Dimethyl phthalate	ND		32.0	32.6		ug/L		102	59 - 123
Di-n-butyl phthalate	ND		32.0	33.9		ug/L		106	65 - 129
Di-n-octyl phthalate	ND		32.0	31.8		ug/L		99	16 - 150
Fluoranthene	ND		32.0	33.5		ug/L		105	63 - 129
Fluorene	ND		32.0	31.0		ug/L		97	62 - 120
Hexachlorobenzene	ND		32.0	30.4		ug/L		95	57 - 121
Hexachlorobutadiene	ND		32.0	25.1		ug/L		78	37 - 120
Hexachlorocyclopentadiene	ND		32.0	27.4		ug/L		86	21 - 120
Hexachloroethane	ND		32.0	25.2		ug/L		79	16 - 130
Indeno(1,2,3-cd)pyrene	ND		32.0	28.6		ug/L		89	16 - 140
Isophorone	ND		32.0	29.7		ug/L		93	48 - 133

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

Lab Sample ID: 480-154071-7 MS — **Client Sample ID: BCC Area C PS-06_MS_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 476098 — **Prep Batch: 474957**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		32.0	28.0		ug/L		88	45 - 120
Nitrobenzene	ND		32.0	29.4		ug/L		92	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	28.6		ug/L		89	49 - 120
N-Nitrosodiphenylamine	ND		32.0	31.4		ug/L		98	39 - 138
Pentachlorophenol	ND		64.0	76.3		ug/L		119	23 - 149
Phenanthrene	ND		32.0	32.3		ug/L		101	65 - 122
Phenol	ND		32.0	18.5		ug/L		58	16 - 120
Pyrene	ND		32.0	32.3		ug/L		101	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*113*		*41 - 120*
2-Fluorobiphenyl	*92*		*48 - 120*
2-Fluorophenol	*72*		*35 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
Phenol-d5	*55*		*22 - 120*
p-Terphenyl-d14	*81*		*59 - 136*

Lab Sample ID: 480-154071-7 MSD — **Client Sample ID: BCC Area C PS-06_MSD_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 476098 — **Prep Batch: 474957**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	32.6		ug/L		102	65 - 126	8	18
2,4,6-Trichlorophenol	ND		32.0	34.4		ug/L		108	64 - 120	3	19
2,4-Dichlorophenol	ND		32.0	30.8		ug/L		96	48 - 132	4	19
2,4-Dimethylphenol	ND		32.0	31.4		ug/L		98	39 - 130	5	42
2,4-Dinitrophenol	ND		64.0	84.3		ug/L		132	21 - 150	5	22
2,4-Dinitrotoluene	ND		32.0	35.6		ug/L		111	54 - 138	4	20
2,6-Dinitrotoluene	ND		32.0	34.9		ug/L		109	17 - 150	4	15
2-Chloronaphthalene	ND		32.0	30.1		ug/L		94	52 - 124	5	21
2-Chlorophenol	ND		32.0	29.5		ug/L		92	48 - 120	2	25
2-Methylnaphthalene	ND		32.0	30.8		ug/L		96	34 - 140	3	21
2-Methylphenol	ND		32.0	28.3		ug/L		88	46 - 120	1	27
2-Nitroaniline	ND		32.0	34.8		ug/L		109	44 - 136	5	15
2-Nitrophenol	ND		32.0	33.4		ug/L		104	38 - 141	6	18
3,3'-Dichlorobenzidine	ND		64.0	44.4		ug/L		69	10 - 150	2	25
3-Nitroaniline	ND		32.0	26.1		ug/L		81	32 - 150	16	19
4,6-Dinitro-2-methylphenol	ND		64.0	86.1		ug/L		135	38 - 150	4	15
4-Bromophenyl phenyl ether	ND		32.0	32.5		ug/L		102	63 - 126	1	15
4-Chloro-3-methylphenol	ND		32.0	32.6		ug/L		102	64 - 127	3	27
4-Chloroaniline	ND		32.0	22.6		ug/L		71	16 - 124	14	22
4-Chlorophenyl phenyl ether	ND		32.0	31.7		ug/L		99	61 - 120	2	16
4-Methylphenol	ND		32.0	26.9		ug/L		84	36 - 120	2	24
4-Nitroaniline	ND		32.0	33.7		ug/L		105	32 - 150	7	24
4-Nitrophenol	ND		64.0	56.3		ug/L		88	23 - 132	9	48
Acenaphthene	ND		32.0	31.1		ug/L		97	48 - 120	4	24
Acenaphthylene	ND		32.0	33.1		ug/L		104	63 - 120	4	18
Acetophenone	ND		32.0	29.8		ug/L		93	53 - 120	2	20

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

Lab Sample ID: 480-154071-7 MSD — **Client Sample ID: BCC Area C PS-06_MSD_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 476098 — **Prep Batch: 474957**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	0.65	J	32.0	23.1		ug/L		70	32 - 120	10	30
Anthracene	ND		32.0	31.8		ug/L		100	65 - 122	1	15
Atrazine	ND		64.0	72.0		ug/L		112	50 - 150	3	20
Benzaldehyde	ND		64.0	55.0		ug/L		86	10 - 150	8	20
Benzo(a)anthracene	ND		32.0	30.5		ug/L		95	43 - 124	1	15
Benzo(a)pyrene	ND		32.0	26.9		ug/L		84	23 - 125	2	15
Benzo(b)fluoranthene	ND		32.0	30.5		ug/L		95	27 - 127	2	15
Benzo(g,h,i)perylene	ND		32.0	28.9		ug/L		90	16 - 147	1	15
Benzo(k)fluoranthene	ND		32.0	28.7		ug/L		90	20 - 124	4	22
Biphenyl	ND		32.0	30.2		ug/L		95	57 - 120	3	20
bis (2-chloroisopropyl) ether	ND		32.0	27.7		ug/L		87	28 - 121	3	24
Bis(2-chloroethoxy)methane	ND		32.0	30.1		ug/L		94	44 - 128	5	17
Bis(2-chloroethyl)ether	ND		32.0	31.1		ug/L		97	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND		32.0	30.4		ug/L		95	16 - 150	2	15
Butyl benzyl phthalate	ND		32.0	32.1		ug/L		100	51 - 140	0	16
Caprolactam	ND		64.0	22.6		ug/L		35	10 - 120	3	20
Carbazole	ND		32.0	36.6		ug/L		114	16 - 148	2	20
Chrysene	ND		32.0	30.1		ug/L		94	44 - 122	1	15
Dibenz(a,h)anthracene	ND		32.0	27.8		ug/L		87	16 - 139	2	15
Dibenzofuran	ND		32.0	31.2		ug/L		97	60 - 120	2	15
Diethyl phthalate	ND		32.0	34.5		ug/L		108	53 - 133	3	15
Dimethyl phthalate	ND		32.0	33.4		ug/L		104	59 - 123	2	15
Di-n-butyl phthalate	ND		32.0	33.4		ug/L		104	65 - 129	1	15
Di-n-octyl phthalate	ND		32.0	31.4		ug/L		98	16 - 150	1	16
Fluoranthene	ND		32.0	32.8		ug/L		102	63 - 129	2	15
Fluorene	ND		32.0	31.7		ug/L		99	62 - 120	2	15
Hexachlorobenzene	ND		32.0	30.5		ug/L		95	57 - 121	1	15
Hexachlorobutadiene	ND		32.0	26.4		ug/L		83	37 - 120	5	44
Hexachlorocyclopentadiene	ND		32.0	28.8		ug/L		90	21 - 120	5	49
Hexachloroethane	ND		32.0	26.4		ug/L		82	16 - 130	5	46
Indeno(1,2,3-cd)pyrene	ND		32.0	28.2		ug/L		88	16 - 140	2	15
Isophorone	ND		32.0	30.9		ug/L		97	48 - 133	4	17
Naphthalene	ND		32.0	29.3		ug/L		92	45 - 120	5	29
Nitrobenzene	ND		32.0	31.1		ug/L		97	45 - 123	6	24
N-Nitrosodi-n-propylamine	ND		32.0	29.0		ug/L		91	49 - 120	2	31
N-Nitrosodiphenylamine	ND		32.0	32.5		ug/L		101	39 - 138	3	15
Pentachlorophenol	ND		64.0	78.1		ug/L		122	23 - 149	2	37
Phenanthrene	ND		32.0	32.3		ug/L		101	65 - 122	0	15
Phenol	ND		32.0	19.2		ug/L		60	16 - 120	3	34
Pyrene	ND		32.0	32.0		ug/L		100	58 - 128	1	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*112*		*41 - 120*
2-Fluorobiphenyl	*93*		*48 - 120*
2-Fluorophenol	*72*		*35 - 120*
Nitrobenzene-d5	*94*		*46 - 120*
Phenol-d5	*56*		*22 - 120*
p-Terphenyl-d14	*75*		*59 - 136*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-474791/1-A
Matrix: Water
Analysis Batch: 475712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		05/29/19 07:33	05/31/19 16:40	1
Antimony	ND		0.020	0.0068	mg/L		05/29/19 07:33	05/31/19 16:40	1
Arsenic	ND		0.015	0.0056	mg/L		05/29/19 07:33	05/31/19 16:40	1
Barium	ND		0.0020	0.00070	mg/L		05/29/19 07:33	05/31/19 16:40	1
Beryllium	ND		0.0020	0.00030	mg/L		05/29/19 07:33	05/31/19 16:40	1
Cadmium	ND		0.0020	0.00050	mg/L		05/29/19 07:33	05/31/19 16:40	1
Calcium	ND		0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:40	1
Chromium	ND		0.0040	0.0010	mg/L		05/29/19 07:33	05/31/19 16:40	1
Cobalt	ND		0.0040	0.00063	mg/L		05/29/19 07:33	05/31/19 16:40	1
Copper	ND		0.010	0.0016	mg/L		05/29/19 07:33	05/31/19 16:40	1
Iron	ND		0.050	0.019	mg/L		05/29/19 07:33	05/31/19 16:40	1
Lead	ND		0.010	0.0030	mg/L		05/29/19 07:33	05/31/19 16:40	1
Magnesium	ND		0.20	0.043	mg/L		05/29/19 07:33	05/31/19 16:40	1
Manganese	ND		0.0030	0.00040	mg/L		05/29/19 07:33	05/31/19 16:40	1
Nickel	ND		0.010	0.0013	mg/L		05/29/19 07:33	05/31/19 16:40	1
Potassium	0.116	J	0.50	0.10	mg/L		05/29/19 07:33	05/31/19 16:40	1
Selenium	ND		0.025	0.0087	mg/L		05/29/19 07:33	05/31/19 16:40	1
Silver	ND		0.0060	0.0017	mg/L		05/29/19 07:33	05/31/19 16:40	1
Sodium	0.356	J	1.0	0.32	mg/L		05/29/19 07:33	05/31/19 16:40	1
Thallium	ND		0.020	0.010	mg/L		05/29/19 07:33	05/31/19 16:40	1
Vanadium	ND		0.0050	0.0015	mg/L		05/29/19 07:33	05/31/19 16:40	1
Zinc	ND		0.010	0.0015	mg/L		05/29/19 07:33	05/31/19 16:40	1

Lab Sample ID: LCS 480-474791/2-A
Matrix: Water
Analysis Batch: 475712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.82		mg/L		98	80 - 120
Antimony	0.200	0.226		mg/L		113	80 - 120
Arsenic	0.200	0.213		mg/L		107	80 - 120
Barium	0.200	0.207		mg/L		103	80 - 120
Beryllium	0.200	0.215		mg/L		107	80 - 120
Cadmium	0.200	0.209		mg/L		104	80 - 120
Calcium	10.0	10.06		mg/L		101	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Cobalt	0.200	0.199		mg/L		99	80 - 120
Copper	0.200	0.204		mg/L		102	80 - 120
Iron	10.0	9.66		mg/L		97	80 - 120
Lead	0.200	0.201		mg/L		101	80 - 120
Magnesium	10.0	10.16		mg/L		102	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Nickel	0.200	0.207		mg/L		104	80 - 120
Potassium	10.0	10.23		mg/L		102	80 - 120
Selenium	0.200	0.205		mg/L		102	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120
Sodium	10.0	10.10		mg/L		101	80 - 120
Thallium	0.200	0.208		mg/L		104	80 - 120
Vanadium	0.200	0.208		mg/L		104	80 - 120

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

Lab Sample ID: LCS 480-474791/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475712 — **Prep Batch: 474791**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.206		mg/L		103	80 - 120

Lab Sample ID: 480-154071-7 MS — **Client Sample ID: BCC Area C PS-06_MS_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475712 — **Prep Batch: 474791**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.95		mg/L		100	75 - 125
Antimony	ND		0.200	0.236		mg/L		118	75 - 125
Arsenic	0.063		0.200	0.288		mg/L		113	75 - 125
Barium	0.0081		0.200	0.217		mg/L		104	75 - 125
Beryllium	ND		0.200	0.214		mg/L		107	75 - 125
Cadmium	ND		0.200	0.216		mg/L		108	75 - 125
Calcium	188		10.0	202.6	4	mg/L		143	75 - 125
Chromium	ND		0.200	0.211		mg/L		105	75 - 125
Cobalt	ND		0.200	0.205		mg/L		102	75 - 125
Copper	ND		0.200	0.210		mg/L		105	75 - 125
Iron	26.5		10.0	36.83		mg/L		103	75 - 125
Lead	ND		0.200	0.205		mg/L		103	75 - 125
Magnesium	8.8		10.0	19.08		mg/L		103	75 - 125
Manganese	0.15		0.200	0.355		mg/L		104	75 - 125
Nickel	ND		0.200	0.213		mg/L		106	75 - 125
Potassium	42.9	B	10.0	55.04	4	mg/L		121	75 - 125
Selenium	ND		0.200	0.215		mg/L		107	75 - 125
Silver	ND		0.0500	0.0531		mg/L		106	75 - 125
Thallium	ND		0.200	0.208		mg/L		104	75 - 125
Vanadium	ND		0.200	0.213		mg/L		106	75 - 125
Zinc	ND		0.200	0.206		mg/L		103	75 - 125

Lab Sample ID: 480-154071-7 MS — **Client Sample ID: BCC Area C PS-06_MS_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475826 — **Prep Batch: 474791**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	35.8	B	10.0	47.64		mg/L		118	75 - 125

Lab Sample ID: 480-154071-7 MSD — **Client Sample ID: BCC Area C PS-06_MSD_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475712 — **Prep Batch: 474791**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.80		mg/L		98	75 - 125	2	20
Antimony	ND		0.200	0.232		mg/L		116	75 - 125	2	20
Arsenic	0.063		0.200	0.280		mg/L		109	75 - 125	3	20
Barium	0.0081		0.200	0.214		mg/L		103	75 - 125	1	20
Beryllium	ND		0.200	0.211		mg/L		106	75 - 125	2	20
Cadmium	ND		0.200	0.211		mg/L		106	75 - 125	2	20
Calcium	188		10.0	194.1	4	mg/L		57	75 - 125	4	20
Chromium	ND		0.200	0.207		mg/L		103	75 - 125	2	20

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

Lab Sample ID: 480-154071-7 MSD — **Client Sample ID: BCC Area C PS-06_MSD_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475712 — **Prep Batch: 474791**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	ND		0.200	0.201		mg/L		100	75 - 125	2	20
Copper	ND		0.200	0.206		mg/L		103	75 - 125	2	20
Iron	26.5		10.0	35.45		mg/L		89	75 - 125	4	20
Lead	ND		0.200	0.204		mg/L		102	75 - 125	1	20
Magnesium	8.8		10.0	18.67		mg/L		99	75 - 125	2	20
Manganese	0.15		0.200	0.346		mg/L		100	75 - 125	2	20
Nickel	ND		0.200	0.209		mg/L		104	75 - 125	2	20
Potassium	42.9	B	10.0	52.97	4	mg/L		101	75 - 125	4	20
Selenium	ND		0.200	0.210		mg/L		105	75 - 125	3	20
Silver	ND		0.0500	0.0523		mg/L		105	75 - 125	2	20
Thallium	ND		0.200	0.205		mg/L		102	75 - 125	2	20
Vanadium	ND		0.200	0.209		mg/L		105	75 - 125	2	20
Zinc	ND		0.200	0.204		mg/L		102	75 - 125	1	20

Lab Sample ID: 480-154071-7 MSD — **Client Sample ID: BCC Area C PS-06_MSD_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475826 — **Prep Batch: 474791**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	35.8	B	10.0	45.99		mg/L		102	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-475184/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475424 — **Prep Batch: 475184**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/30/19 11:15	05/30/19 13:57	1

Lab Sample ID: LCS 480-475184/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475424 — **Prep Batch: 475184**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00697		mg/L		104	80 - 120

Lab Sample ID: 480-154071-7 MS — **Client Sample ID: BCC Area C PS-06_MS_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475424 — **Prep Batch: 475184**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00735		mg/L		110	80 - 120

Lab Sample ID: 480-154071-7 MSD — **Client Sample ID: BCC Area C PS-06_MSD_0519**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 475424 — **Prep Batch: 475184**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00700		mg/L		105	80 - 120	5	20

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

GC/MS VOA

Analysis Batch: 475384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	8260C	
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	8260C	
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	8260C	
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	8260C	
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	8260C	
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	8260C	
480-154071-9	TRIP BLANK	Total/NA	Water	8260C	
MB 480-475384/8	Method Blank	Total/NA	Water	8260C	
LCS 480-475384/5	Lab Control Sample	Total/NA	Water	8260C	
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	8260C	
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	8260C	

Analysis Batch: 475683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	8260C	
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	8260C	
MB 480-475683/7	Method Blank	Total/NA	Water	8260C	
LCS 480-475683/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 474957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	3510C	
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	3510C	
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	3510C	
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	3510C	
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	3510C	
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	3510C	
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	3510C	
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	3510C	
MB 480-474957/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-474957/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	3510C	
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	3510C	

Analysis Batch: 476098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	8270D	474957
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	8270D	474957
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	8270D	474957
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	8270D	474957
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	8270D	474957
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	8270D	474957
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	8270D	474957
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	8270D	474957
MB 480-474957/1-A	Method Blank	Total/NA	Water	8270D	474957
LCS 480-474957/2-A	Lab Control Sample	Total/NA	Water	8270D	474957
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	8270D	474957
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	8270D	474957

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Metals

Prep Batch: 474791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	3005A	
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	3005A	
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	3005A	
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	3005A	
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	3005A	
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	3005A	
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	3005A	
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	3005A	
480-154071-10	BCC Area C MW-C01F_0519	Total/NA	Ground Water	3005A	
MB 480-474791/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-474791/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	3005A	
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	3005A	

Prep Batch: 475184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	7470A	
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	7470A	
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	7470A	
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	7470A	
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	7470A	
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	7470A	
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	7470A	
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	7470A	
480-154071-10	BCC Area C MW-C01F_0519	Total/NA	Ground Water	7470A	
MB 480-475184/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-475184/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	7470A	
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	7470A	

Analysis Batch: 475424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	7470A	475184
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	7470A	475184
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	7470A	475184
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	7470A	475184
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	7470A	475184
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	7470A	475184
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	7470A	475184
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	7470A	475184
480-154071-10	BCC Area C MW-C01F_0519	Total/NA	Ground Water	7470A	475184
MB 480-475184/1-A	Method Blank	Total/NA	Water	7470A	475184
LCS 480-475184/2-A	Lab Control Sample	Total/NA	Water	7470A	475184
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	7470A	475184
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	7470A	475184

Analysis Batch: 475712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	6010C	474791
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	6010C	474791
480-154071-3	BCC Area C PS-04_0519	Total/NA	Ground Water	6010C	474791

Metals (Continued)

Analysis Batch: 475712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-4	BCC Area C MW-C04_0519	Total/NA	Ground Water	6010C	474791
480-154071-5	BCC Area C RFI-20_0519	Total/NA	Ground Water	6010C	474791
480-154071-6	BCC Area C PS-05A_0519	Total/NA	Ground Water	6010C	474791
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	6010C	474791
480-154071-8	BCC Area C PS-06_D_0519	Total/NA	Ground Water	6010C	474791
480-154071-10	BCC Area C MW-C01F_0519	Total/NA	Ground Water	6010C	474791
MB 480-474791/1-A	Method Blank	Total/NA	Water	6010C	474791
LCS 480-474791/2-A	Lab Control Sample	Total/NA	Water	6010C	474791
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	6010C	474791
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	6010C	474791

Analysis Batch: 475826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	6010C	474791
480-154071-1	BCC Area C MW-C01_0519	Total/NA	Ground Water	6010C	474791
480-154071-2	BCC Area C RFI-31_0519	Total/NA	Ground Water	6010C	474791
480-154071-7	BCC Area C PS-06_0519	Total/NA	Ground Water	6010C	474791
480-154071-7 MS	BCC Area C PS-06_MS_0519	Total/NA	Water	6010C	474791
480-154071-7 MSD	BCC Area C PS-06_MSD_0519	Total/NA	Water	6010C	474791

Analysis Batch: 478775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154071-10	BCC Area C MW-C01F_0519	Total/NA	Ground Water	6010C	474791

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C01_0519

Lab Sample ID: 480-154071-1
Date Collected: 05/22/19 09:20
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	475384	05/30/19 23:54	KMN	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		5	476098	06/04/19 19:53	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 16:47	LMH	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		2	475826	06/01/19 10:34	LMH	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		20	475826	06/01/19 10:38	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:01	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-31_0519

Lab Sample ID: 480-154071-2
Date Collected: 05/23/19 10:00
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	475683	06/01/19 17:06	AMM	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 20:22	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 16:51	LMH	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		5	475826	06/01/19 10:42	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:02	BMB	TAL BUF

Client Sample ID: BCC Area C PS-04_0519

Lab Sample ID: 480-154071-3
Date Collected: 05/22/19 10:25
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475384	05/31/19 00:18	KMN	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 20:50	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 16:55	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:04	BMB	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C MW-C04_0519

Lab Sample ID: 480-154071-4
Date Collected: 05/22/19 11:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	475384	05/31/19 00:42	KMN	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 21:19	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 16:59	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:05	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-20_0519

Lab Sample ID: 480-154071-5
Date Collected: 05/22/19 14:25
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475384	05/31/19 01:07	KMN	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 21:49	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 17:14	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:06	BMB	TAL BUF

Client Sample ID: BCC Area C PS-05A_0519

Lab Sample ID: 480-154071-6
Date Collected: 05/23/19 08:40
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	475683	06/01/19 17:30	AMM	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 22:18	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 17:17	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:07	BMB	TAL BUF

Client Sample ID: BCC Area C PS-06_0519

Lab Sample ID: 480-154071-7
Date Collected: 05/22/19 12:20
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475384	05/31/19 01:31	KMN	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 18:56	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 17:21	LMH	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Client Sample ID: BCC Area C PS-06_0519

Lab Sample ID: 480-154071-7
Date Collected: 05/22/19 12:20
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475826	06/01/19 10:46	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:09	BMB	TAL BUF

Client Sample ID: BCC Area C PS-06_D_0519

Lab Sample ID: 480-154071-8
Date Collected: 05/22/19 12:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475384	05/31/19 01:55	KMN	TAL BUF
Total/NA	Prep	3510C			474957	05/28/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D		1	476098	06/04/19 22:47	PJQ	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 17:39	LMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:16	BMB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-154071-9
Date Collected: 05/22/19 00:00
Matrix: Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	475384	05/31/19 02:19	KMN	TAL BUF

Client Sample ID: BCC Area C MW-C01F_0519

Lab Sample ID: 480-154071-10
Date Collected: 05/22/19 09:30
Matrix: Ground Water
Date Received: 05/23/19 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		1	475712	05/31/19 17:43	LMH	TAL BUF
Total/NA	Prep	3005A			474791	05/29/19 07:33	EMB	TAL BUF
Total/NA	Analysis	6010C		20	478775	06/19/19 14:45	AMH	TAL BUF
Total/NA	Prep	7470A			475184	05/30/19 11:15	BMB	TAL BUF
Total/NA	Analysis	7470A		1	475424	05/30/19 14:17	BMB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-154071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154071-1	BCC Area C MW-C01_0519	Ground Water	05/22/19 09:20	05/23/19 16:00	
480-154071-2	BCC Area C RFI-31_0519	Ground Water	05/23/19 10:00	05/23/19 16:00	
480-154071-3	BCC Area C PS-04_0519	Ground Water	05/22/19 10:25	05/23/19 16:00	
480-154071-4	BCC Area C MW-C04_0519	Ground Water	05/22/19 11:30	05/23/19 16:00	
480-154071-5	BCC Area C RFI-20_0519	Ground Water	05/22/19 14:25	05/23/19 16:00	
480-154071-6	BCC Area C PS-05A_0519	Ground Water	05/23/19 08:40	05/23/19 16:00	
480-154071-7	BCC Area C PS-06_0519	Ground Water	05/22/19 12:20	05/23/19 16:00	
480-154071-8	BCC Area C PS-06_D_0519	Ground Water	05/22/19 12:30	05/23/19 16:00	
480-154071-9	TRIP BLANK	Water	05/22/19 00:00	05/23/19 16:00	
480-154071-10	BCC Area C MW-C01F_0519	Ground Water	05/22/19 09:30	05/23/19 16:00	

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Schove, John	Site Contact: Tom Wagner	Date: 5-23-19	COC No: 304461_0519
Ontario Specialty Contracting Inc.	Tel/Fax: (716) 912-9926	Lab Contact: Schove, John	Carrier: OSC	1 of 1 COCs
333 Ganson Street	Analysis Turnaround Time			Job No. 0913-OMM
Buffalo, NY, 14203	Calendar (C) or Work Days (W) W			
716-856-3333 Phone	TAT			
716-842-1630 FAX	[X] 2 weeks			SDG No.
Project Name: Buffalo Color Area C Wells	[ ] 1 week			
Site: HoneyWell Buffalo Color - NYC915231 EIM SITE ID - 37745	[ ] 2 days			
PO# [redacted] 61818	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B - TLC 4.2 list (TLC VOC)	6010B, 7470A (TAL Metals)	8270C - (8SOD) TLC SVOA - 4.2 list + naaline	Sample Specific Notes:
BCC_Area C_MW-C01_0519	5/22-19	0920	G	W	6	N	3	1	2	
BCC_Area C_RFI-31_0519	5/23-19	1000	G	W	6	N	3	1	2	
BCC_Area C_PS-04_0519	5/22-19	1025	G	W	6	N	3	1	2	
BCC_Area C_MW-C04_0519	5/22-19	1130	G	W	6	N	3	1	2	
BCC_Area C_RFI-20_0519	5/22-19	1425	G	W	6	N	3	1	2	
BCC_Area C_PS-05A_0519	5/23-19	0840	G	W	6	N	3	1	2	
BCC_Area C_PS-06_0519	5/22-19	1220	G	W	6	N	3	1	2	
BCC_Area C_PS-06 D_0519	5/22-19	1230	G	W	6	N	3	1	2	
BCC_Area C_PS-06 MS_0519	5/22-19	1240	G	W	6	N	3	1	2	
BCC_Area C_PS-06MSD_0519	5/22-19	1250	G	W	6	N	3	1	2	
Trip Blank	N/A	N/A	N/A	W	2		2			
BCC_AREA C_MW-C01F_0519	5/22-19	0930	G	W	1			1		
Container Volume (ml)							40	250	1000	
Preservation: 1= Ice 2= HCl (Hydrochloric) 3= H2SO4 (Sulfuric) 4=HNO3 (Nitric) 5=NaOH (Sodium Hydroxide) 6=Other							2-V	4-P	1-A	

480-154071 Chain of Custody

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* [ ] *Poison B* [X] *Unknown*

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

Special Instructions/QC Requirements & Comments:
2.4 | 3.2 #1

Container Code: A=Amber G=Glass P=Poly/Plastic S=Summa T=Tedlar V=Vial

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Wagner	OSC	5-23-19			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			[signature]	TAB	5-23-19 1600

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-154071-1

Login Number: 154071
List Number: 1
Creator: Maddux, Ann

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-158676-1
Client Project/Site: Buffalo Color Area C Wells
Sampling Event: Buffalo Color Area C Wells

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Kirsten Colligan

Authorized for release by:
9/19/2019 12:47:31 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-158676-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158676-1

Receipt
The samples were received on 9/5/2019 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: BCC Area C MW-C01_0919 (480-158676-1), BCC Area C RFI-20_0919 (480-158676-5) and BCC Area C PS-06_0919 (480-158676-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BCC Area C MW-C04_0919 (480-158676-4), BCC Area C MW-C04 MS_0919 (480-158676-4[MS]), BCC Area C MW-C04 MSD_0919 (480-158676-4[MSD]), BCC Area C PS-05A_0919 (480-158676-6) and BCC Area C MW-C04 D_0919 (480-158676-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The Laboratory Control Sample (LCS) was outside laboratory/project quality control limits for the following analyte: 1,1,2,2-Tetrachloroethane. All other spike recoveries and quality control indicators, including sample specific surrogate recoveries, were acceptable. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: BCC Area C MW-C01_0919 (480-158676-1), BCC Area C MW-C04_0919 (480-158676-4), BCC Area C RFI-20_0919 (480-158676-5), BCC Area C PS-05A_0919 (480-158676-6), BCC Area C PS-06_0919 (480-158676-7), BCC Area C MW-C04 D_0919 (480-158676-8) and TRIP BLANK (480-158676-9).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-491772 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-491772 recovered above the upper control limit for Dichlorodifluoromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BCC Area C MW-C01_0919 (480-158676-1), BCC Area C MW-C04_0919 (480-158676-4), BCC Area C MW-C04 MS_0919 (480-158676-4[MS]), BCC Area C MW-C04 MSD_0919 (480-158676-4[MSD]), BCC Area C RFI-20_0919 (480-158676-5), BCC Area C PS-05A_0919 (480-158676-6), BCC Area C PS-06_0919 (480-158676-7), BCC Area C MW-C04 D_0919 (480-158676-8) and TRIP BLANK (480-158676-9).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-491772 recovered outside acceptance criteria, low biased, for 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-491987 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: BCC Area C RFI-31_0919 (480-158676-2).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-491987 recovered outside control limits for the following analyte(s): Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The following samples are impacted: BCC Area C RFI-31_0919 (480-158676-2).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: BCC Area C RFI-31_0919 (480-158676-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-491772 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Job ID: 480-158676-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

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

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-491948 recovered above the upper control limit for Atrazine, 4-Nitrophenol and Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: BCC Area C MW-C04_0919 (480-158676-4).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: BCC Area C MW-C04 MS_0919 (480-158676-4[MS]). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 480-491952 was outside the method criteria for the following surrogate: 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: BCC Area C PS-05A_0919 (480-158676-6) and BCC Area C MW-C04 D_0919 (480-158676-8). These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: BCC Area C MW-C01_0919 (480-158676-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-491952 recovered above the upper control limit for Atrazine, 4-Nitrophenol, 2,4,6-Trichlorophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BCC Area C MW-C01_0919 (480-158676-1), BCC Area C RFI-31_0919 (480-158676-2), BCC Area C RFI-20_0919 (480-158676-5), BCC Area C PS-05A_0919 (480-158676-6), BCC Area C PS-06_0919 (480-158676-7) and BCC Area C MW-C04 D_0919 (480-158676-8).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-491952 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

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

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

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C01_0919 — Lab Sample ID: 480-158676-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	0.94	J	2.0	0.82	ug/L	2		8260C	Total/NA
1,3-Dichlorobenzene	3.4		2.0	1.6	ug/L	2		8260C	Total/NA
Chloroform	0.69	J	2.0	0.68	ug/L	2		8260C	Total/NA
Fluoranthene	2.0	J	25	2.0	ug/L	5		8270D	Total/NA
Pyrene	1.7	J	25	1.7	ug/L	5		8270D	Total/NA
Aluminum	2.4		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.0089	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.44		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00089	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	667		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.011		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0022	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.017		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	7.1	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.040		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	259		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.67		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0077	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	41.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	7560		20.0	6.5	mg/L	20		6010C	Total/NA
Vanadium	0.0052		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.11		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00043		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: BCC Area C RFI-31_0919 — Lab Sample ID: 480-158676-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	170		5.0	2.1	ug/L	5		8260C	Total/NA
1,2-Dichlorobenzene	7.7		5.0	4.0	ug/L	5		8260C	Total/NA
1,3-Dichlorobenzene	32		5.0	3.9	ug/L	5		8260C	Total/NA
1,4-Dichlorobenzene	6.4		5.0	4.2	ug/L	5		8260C	Total/NA
Chlorobenzene	45		5.0	3.8	ug/L	5		8260C	Total/NA
Methylene Chloride	4.8	J	5.0	2.2	ug/L	5		8260C	Total/NA
2,4-Dichlorophenol	2.1	J	5.0	0.51	ug/L	1		8270D	Total/NA
Barium	0.018		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	336		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0025	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0026	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.51	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	112		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.5		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0032	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	20.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1990		20.0	6.5	mg/L	20		6010C	Total/NA
Zinc	0.0058	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C MW-C04_0919 — Lab Sample ID: 480-158676-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	36		10	7.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	76		10	8.4	ug/L	10		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BCC Area C MW-C04_0919 (Continued) — Lab Sample ID: 480-158676-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	560	F1	10	7.5	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	5.6		5.0	0.51	ug/L	1		8270D	Total/NA
Aniline	0.94	J	10	0.61	ug/L	1		8270D	Total/NA
N-Nitrosodiphenylamine	0.61	J	5.0	0.51	ug/L	1		8270D	Total/NA
Barium	0.37		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	210		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0050	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	4.9	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0056	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	25.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	9.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	47.5		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0080	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C RFI-20_0919 — Lab Sample ID: 480-158676-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	29		2.0	1.5	ug/L	2		8260C	Total/NA
Arsenic	0.083		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.012		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	217		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0017	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	33.0	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0059	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	9.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.18		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	52.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	60.4		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.014		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C PS-05A_0919 — Lab Sample ID: 480-158676-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	6.4		5.0	4.0	ug/L	5		8260C	Total/NA
Chlorobenzene	280		5.0	3.8	ug/L	5		8260C	Total/NA
2-Chlorophenol	3.0	J	5.0	0.53	ug/L	1		8270D	Total/NA
Arsenic	0.27		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.023		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	239		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0026	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0028	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	17.1	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0055	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	22.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.45		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0029	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	14.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	83.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.086		0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-06_0919 — Lab Sample ID: 480-158676-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1	J	2.0	0.76	ug/L	2		8260C	Total/NA
Aluminum	0.089	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.36		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	203		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0064	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	4.8	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0056	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	24.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.98		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	9.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	43.3		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0074	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: BCC Area C MW-C04 D_0919 — Lab Sample ID: 480-158676-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	36		10	7.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	74		10	8.4	ug/L	10		8260C	Total/NA
Chlorobenzene	540		10	7.5	ug/L	10		8260C	Total/NA
2,4-Dichlorophenol	6.4		5.0	0.51	ug/L	1		8270D	Total/NA
Aniline	0.78	J	10	0.61	ug/L	1		8270D	Total/NA
Barium	0.055		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	149		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0022	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	3.9	B	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0047	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	14.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.30		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	8.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	28.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0063	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-158676-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C01_0919

Lab Sample ID: 480-158676-1

Date Collected: 09/05/19 08:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/13/19 03:08	2
1,1,2,2-Tetrachloroethane	ND	*	2.0	0.42	ug/L			09/13/19 03:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			09/13/19 03:08	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/13/19 03:08	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			09/13/19 03:08	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/13/19 03:08	2
1,2,4-Trichlorobenzene	**0.94**	**J**	2.0	0.82	ug/L			09/13/19 03:08	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			09/13/19 03:08	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			09/13/19 03:08	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			09/13/19 03:08	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/13/19 03:08	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/13/19 03:08	2
1,3-Dichlorobenzene	**3.4**		2.0	1.6	ug/L			09/13/19 03:08	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			09/13/19 03:08	2
2-Butanone (MEK)	ND		20	2.6	ug/L			09/13/19 03:08	2
2-Hexanone	ND		10	2.5	ug/L			09/13/19 03:08	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			09/13/19 03:08	2
Acetone	ND		20	6.0	ug/L			09/13/19 03:08	2
Benzene	ND		2.0	0.82	ug/L			09/13/19 03:08	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/13/19 03:08	2
Bromoform	ND		2.0	0.52	ug/L			09/13/19 03:08	2
Bromomethane	ND		2.0	1.4	ug/L			09/13/19 03:08	2
Carbon disulfide	ND		2.0	0.38	ug/L			09/13/19 03:08	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/13/19 03:08	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/13/19 03:08	2
Chloroethane	ND		2.0	0.64	ug/L			09/13/19 03:08	2
Chloroform	**0.69**	**J**	2.0	0.68	ug/L			09/13/19 03:08	2
Chloromethane	ND		2.0	0.70	ug/L			09/13/19 03:08	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/13/19 03:08	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/13/19 03:08	2
Cyclohexane	ND		2.0	0.36	ug/L			09/13/19 03:08	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/13/19 03:08	2
Dichlorodifluoromethane	ND	*	2.0	1.4	ug/L			09/13/19 03:08	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/13/19 03:08	2
Isopropylbenzene	ND		2.0	1.6	ug/L			09/13/19 03:08	2
Methyl acetate	ND	*	5.0	2.6	ug/L			09/13/19 03:08	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			09/13/19 03:08	2
Methylcyclohexane	ND		2.0	0.32	ug/L			09/13/19 03:08	2
Methylene Chloride	ND		2.0	0.88	ug/L			09/13/19 03:08	2
Styrene	ND		2.0	1.5	ug/L			09/13/19 03:08	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/13/19 03:08	2
Toluene	ND		2.0	1.0	ug/L			09/13/19 03:08	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/13/19 03:08	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/13/19 03:08	2
Trichloroethene	ND		2.0	0.92	ug/L			09/13/19 03:08	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			09/13/19 03:08	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/13/19 03:08	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/13/19 03:08	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C01_0919

Lab Sample ID: 480-158676-1

Date Collected: 09/05/19 08:10
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/13/19 03:08*	*2*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/13/19 03:08*	*2*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/13/19 03:08*	*2*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*09/13/19 03:08*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		09/10/19 15:12	09/14/19 04:35	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		09/10/19 15:12	09/14/19 04:35	5
2,4-Dinitrophenol	ND		50	11	ug/L		09/10/19 15:12	09/14/19 04:35	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		09/10/19 15:12	09/14/19 04:35	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
2-Chloronaphthalene	ND		25	2.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
2-Chlorophenol	ND		25	2.7	ug/L		09/10/19 15:12	09/14/19 04:35	5
2-Methylnaphthalene	ND		25	3.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
2-Methylphenol	ND		25	2.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
2-Nitroaniline	ND		50	2.1	ug/L		09/10/19 15:12	09/14/19 04:35	5
2-Nitrophenol	ND		25	2.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
3-Nitroaniline	ND		50	2.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Chloroaniline	ND		25	3.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Methylphenol	ND		50	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Nitroaniline	ND		50	1.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
4-Nitrophenol	ND		50	7.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
Acenaphthene	ND		25	2.1	ug/L		09/10/19 15:12	09/14/19 04:35	5
Acenaphthylene	ND		25	1.9	ug/L		09/10/19 15:12	09/14/19 04:35	5
Acetophenone	ND		25	2.7	ug/L		09/10/19 15:12	09/14/19 04:35	5
Aniline	ND		50	3.1	ug/L		09/10/19 15:12	09/14/19 04:35	5
Anthracene	ND		25	1.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
Atrazine	ND		25	2.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
Benzaldehyde	ND		25	1.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
Benzo(a)anthracene	ND		25	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
Benzo(a)pyrene	ND		25	2.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		09/10/19 15:12	09/14/19 04:35	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		09/10/19 15:12	09/14/19 04:35	5
Biphenyl	ND		25	3.3	ug/L		09/10/19 15:12	09/14/19 04:35	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		09/10/19 15:12	09/14/19 04:35	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
Caprolactam	ND		25	11	ug/L		09/10/19 15:12	09/14/19 04:35	5
Carbazole	ND		25	1.5	ug/L		09/10/19 15:12	09/14/19 04:35	5

Client Sample ID: BCC Area C MW-C01_0919

Lab Sample ID: 480-158676-1

Date Collected: 09/05/19 08:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		25	1.7	ug/L		09/10/19 15:12	09/14/19 04:35	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		09/10/19 15:12	09/14/19 04:35	5
Dibenzofuran	ND		50	2.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
Diethyl phthalate	ND		25	1.1	ug/L		09/10/19 15:12	09/14/19 04:35	5
Dimethyl phthalate	ND		25	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
Fluoranthene	**2.0**	**J**	25	2.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
Fluorene	ND		25	1.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
Hexachlorobenzene	ND		25	2.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
Hexachlorobutadiene	ND		25	3.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
Hexachloroethane	ND		25	3.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
Indeno(1,2,3-cd)pyrene	ND		25	2.4	ug/L		09/10/19 15:12	09/14/19 04:35	5
Isophorone	ND		25	2.2	ug/L		09/10/19 15:12	09/14/19 04:35	5
Naphthalene	ND		25	3.8	ug/L		09/10/19 15:12	09/14/19 04:35	5
Nitrobenzene	ND		25	1.5	ug/L		09/10/19 15:12	09/14/19 04:35	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		09/10/19 15:12	09/14/19 04:35	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		09/10/19 15:12	09/14/19 04:35	5
Pentachlorophenol	ND		50	11	ug/L		09/10/19 15:12	09/14/19 04:35	5
Phenanthrene	ND		25	2.2	ug/L		09/10/19 15:12	09/14/19 04:35	5
Phenol	ND		25	2.0	ug/L		09/10/19 15:12	09/14/19 04:35	5
Pyrene	**1.7**	**J**	25	1.7	ug/L		09/10/19 15:12	09/14/19 04:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*41 - 120*	*09/10/19 15:12*	*09/14/19 04:35*	*5*
2-Fluorobiphenyl	*89*		*48 - 120*	*09/10/19 15:12*	*09/14/19 04:35*	*5*
2-Fluorophenol	*60*		*35 - 120*	*09/10/19 15:12*	*09/14/19 04:35*	*5*
Nitrobenzene-d5	*83*		*46 - 120*	*09/10/19 15:12*	*09/14/19 04:35*	*5*
Phenol-d5	*49*		*22 - 120*	*09/10/19 15:12*	*09/14/19 04:35*	*5*
p-Terphenyl-d14	*72*		*60 - 148*	*09/10/19 15:12*	*09/14/19 04:35*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.4**		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 19:26	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 19:26	1
Arsenic	**0.0089**	**J**	0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 19:26	1
Barium	**0.44**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 19:26	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 19:26	1
Cadmium	**0.00089**	**J**	0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 19:26	1
Calcium	**667**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 19:26	1
Chromium	**0.011**		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 19:26	1
Cobalt	**0.0022**	**J**	0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 19:26	1
Copper	**0.017**		0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 19:26	1
Iron	**7.1**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 12:31	1
Lead	**0.040**		0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 19:26	1
Magnesium	**259**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 19:26	1
Manganese	**0.67**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 19:26	1
Nickel	**0.0077**	**J**	0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 19:26	1
Potassium	**41.3**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 19:26	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C01_0919

Lab Sample ID: 480-158676-1

Date Collected: 09/05/19 08:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 19:26	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 19:26	1
Sodium	**7560**		20.0	6.5	mg/L		09/09/19 09:35	09/13/19 12:35	20
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 19:26	1
Vanadium	**0.0052**		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 19:26	1
Zinc	**0.11**		0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 19:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00043**		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:26	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-31_0919

Lab Sample ID: 480-158676-2

Date Collected: 09/05/19 15:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			09/13/19 22:58	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			09/13/19 22:58	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			09/13/19 22:58	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			09/13/19 22:58	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			09/13/19 22:58	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			09/13/19 22:58	5
1,2,4-Trichlorobenzene	**170**		5.0	2.1	ug/L			09/13/19 22:58	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			09/13/19 22:58	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			09/13/19 22:58	5
1,2-Dichlorobenzene	**7.7**		5.0	4.0	ug/L			09/13/19 22:58	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			09/13/19 22:58	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			09/13/19 22:58	5
1,3-Dichlorobenzene	**32**		5.0	3.9	ug/L			09/13/19 22:58	5
1,4-Dichlorobenzene	**6.4**		5.0	4.2	ug/L			09/13/19 22:58	5
2-Butanone (MEK)	ND		50	6.6	ug/L			09/13/19 22:58	5
2-Hexanone	ND		25	6.2	ug/L			09/13/19 22:58	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			09/13/19 22:58	5
Acetone	ND		50	15	ug/L			09/13/19 22:58	5
Benzene	ND		5.0	2.1	ug/L			09/13/19 22:58	5
Bromodichloromethane	ND		5.0	2.0	ug/L			09/13/19 22:58	5
Bromoform	ND		5.0	1.3	ug/L			09/13/19 22:58	5
Bromomethane	ND		5.0	3.5	ug/L			09/13/19 22:58	5
Carbon disulfide	ND		5.0	0.95	ug/L			09/13/19 22:58	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			09/13/19 22:58	5
Chlorobenzene	**45**		5.0	3.8	ug/L			09/13/19 22:58	5
Chloroethane	ND		5.0	1.6	ug/L			09/13/19 22:58	5
Chloroform	ND		5.0	1.7	ug/L			09/13/19 22:58	5
Chloromethane	ND		5.0	1.8	ug/L			09/13/19 22:58	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			09/13/19 22:58	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			09/13/19 22:58	5
Cyclohexane	ND		5.0	0.90	ug/L			09/13/19 22:58	5
Dibromochloromethane	ND		5.0	1.6	ug/L			09/13/19 22:58	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			09/13/19 22:58	5
Ethylbenzene	ND		5.0	3.7	ug/L			09/13/19 22:58	5
Isopropylbenzene	ND		5.0	4.0	ug/L			09/13/19 22:58	5
Methyl acetate	ND	*	13	6.5	ug/L			09/13/19 22:58	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			09/13/19 22:58	5
Methylcyclohexane	ND		5.0	0.80	ug/L			09/13/19 22:58	5
Methylene Chloride	**4.8**	**J**	5.0	2.2	ug/L			09/13/19 22:58	5
Styrene	ND		5.0	3.7	ug/L			09/13/19 22:58	5
Tetrachloroethene	ND		5.0	1.8	ug/L			09/13/19 22:58	5
Toluene	ND		5.0	2.6	ug/L			09/13/19 22:58	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			09/13/19 22:58	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			09/13/19 22:58	5
Trichloroethene	ND		5.0	2.3	ug/L			09/13/19 22:58	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			09/13/19 22:58	5
Vinyl chloride	ND		5.0	4.5	ug/L			09/13/19 22:58	5
Xylenes, Total	ND		10	3.3	ug/L			09/13/19 22:58	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-31_0919

Lab Sample ID: 480-158676-2

Date Collected: 09/05/19 15:10
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*09/13/19 22:58*	*5*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/13/19 22:58*	*5*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/13/19 22:58*	*5*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*09/13/19 22:58*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 05:03	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/10/19 15:12	09/14/19 05:03	1
2,4-Dichlorophenol	**2.1**	**J**	5.0	0.51	ug/L		09/10/19 15:12	09/14/19 05:03	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/14/19 05:03	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 05:03	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 05:03	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:03	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 05:03	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/10/19 15:12	09/14/19 05:03	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/14/19 05:03	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:03	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/14/19 05:03	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 05:03	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:03	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/14/19 05:03	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/14/19 05:03	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/14/19 05:03	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/14/19 05:03	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/14/19 05:03	1
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 05:03	1
Aniline	ND		10	0.61	ug/L		09/10/19 15:12	09/14/19 05:03	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/14/19 05:03	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 05:03	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/14/19 05:03	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 05:03	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 05:03	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 05:03	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 05:03	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/14/19 05:03	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/14/19 05:03	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/14/19 05:03	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 05:03	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:03	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 05:03	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/14/19 05:03	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 05:03	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/14/19 05:03	1

Client Sample ID: BCC Area C RFI-31_0919

Lab Sample ID: 480-158676-2

Date Collected: 09/05/19 15:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/14/19 05:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/14/19 05:03	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/14/19 05:03	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/14/19 05:03	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 05:03	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/14/19 05:03	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 05:03	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:03	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 05:03	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 05:03	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/14/19 05:03	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 05:03	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 05:03	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 05:03	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/14/19 05:03	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/14/19 05:03	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/14/19 05:03	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 05:03	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 05:03	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 05:03	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/14/19 05:03	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/14/19 05:03	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*114*		*41 - 120*	*09/10/19 15:12*	*09/14/19 05:03*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*09/10/19 15:12*	*09/14/19 05:03*	*1*
2-Fluorophenol	*57*		*35 - 120*	*09/10/19 15:12*	*09/14/19 05:03*	*1*
Nitrobenzene-d5	*76*		*46 - 120*	*09/10/19 15:12*	*09/14/19 05:03*	*1*
Phenol-d5	*41*		*22 - 120*	*09/10/19 15:12*	*09/14/19 05:03*	*1*
p-Terphenyl-d14	*73*		*60 - 148*	*09/10/19 15:12*	*09/14/19 05:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 19:30	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 19:30	1
Arsenic	ND		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 19:30	1
Barium	**0.018**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 19:30	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 19:30	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 19:30	1
Calcium	**336**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 19:30	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 19:30	1
Cobalt	**0.0025**	**J**	0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 19:30	1
Copper	**0.0026**	**J**	0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 19:30	1
Iron	**0.51**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 12:39	1
Lead	**0.0030**	**J**	0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 19:30	1
Magnesium	**112**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 19:30	1
Manganese	**1.5**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 19:30	1
Nickel	**0.0032**	**J**	0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 19:30	1
Potassium	**20.0**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 19:30	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-31_0919

Lab Sample ID: 480-158676-2

Date Collected: 09/05/19 15:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 19:30	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 19:30	1
Sodium	**1990**		20.0	6.5	mg/L		09/09/19 09:35	09/13/19 12:43	20
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 19:30	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 19:30	1
Zinc	**0.0058**	**J**	0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 19:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:27	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04_0919

Lab Sample ID: 480-158676-4

Date Collected: 09/04/19 13:10
Matrix: Ground Water
Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			09/13/19 03:56	10
1,1,2,2-Tetrachloroethane	ND	*	10	2.1	ug/L			09/13/19 03:56	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			09/13/19 03:56	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			09/13/19 03:56	10
1,1-Dichloroethane	ND		10	3.8	ug/L			09/13/19 03:56	10
1,1-Dichloroethene	ND		10	2.9	ug/L			09/13/19 03:56	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			09/13/19 03:56	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			09/13/19 03:56	10
1,2-Dibromoethane	ND		10	7.3	ug/L			09/13/19 03:56	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			09/13/19 03:56	10
1,2-Dichloroethane	ND		10	2.1	ug/L			09/13/19 03:56	10
1,2-Dichloropropane	ND		10	7.2	ug/L			09/13/19 03:56	10
1,3-Dichlorobenzene	**36**		10	7.8	ug/L			09/13/19 03:56	10
1,4-Dichlorobenzene	**76**		10	8.4	ug/L			09/13/19 03:56	10
2-Butanone (MEK)	ND		100	13	ug/L			09/13/19 03:56	10
2-Hexanone	ND		50	12	ug/L			09/13/19 03:56	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			09/13/19 03:56	10
Acetone	ND	F2	100	30	ug/L			09/13/19 03:56	10
Benzene	ND	F2	10	4.1	ug/L			09/13/19 03:56	10
Bromodichloromethane	ND		10	3.9	ug/L			09/13/19 03:56	10
Bromoform	ND		10	2.6	ug/L			09/13/19 03:56	10
Bromomethane	ND		10	6.9	ug/L			09/13/19 03:56	10
Carbon disulfide	ND	F2	10	1.9	ug/L			09/13/19 03:56	10
Carbon tetrachloride	ND		10	2.7	ug/L			09/13/19 03:56	10
Chlorobenzene	**560**	**F1**	10	7.5	ug/L			09/13/19 03:56	10
Chloroethane	ND		10	3.2	ug/L			09/13/19 03:56	10
Chloroform	ND		10	3.4	ug/L			09/13/19 03:56	10
Chloromethane	ND		10	3.5	ug/L			09/13/19 03:56	10
cis-1,2-Dichloroethene	ND	F2	10	8.1	ug/L			09/13/19 03:56	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			09/13/19 03:56	10
Cyclohexane	ND		10	1.8	ug/L			09/13/19 03:56	10
Dibromochloromethane	ND		10	3.2	ug/L			09/13/19 03:56	10
Dichlorodifluoromethane	ND	*	10	6.8	ug/L			09/13/19 03:56	10
Ethylbenzene	ND		10	7.4	ug/L			09/13/19 03:56	10
Isopropylbenzene	ND		10	7.9	ug/L			09/13/19 03:56	10
Methyl acetate	ND	* F1	25	13	ug/L			09/13/19 03:56	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			09/13/19 03:56	10
Methylcyclohexane	ND		10	1.6	ug/L			09/13/19 03:56	10
Methylene Chloride	ND		10	4.4	ug/L			09/13/19 03:56	10
Styrene	ND		10	7.3	ug/L			09/13/19 03:56	10
Tetrachloroethene	ND		10	3.6	ug/L			09/13/19 03:56	10
Toluene	ND	F2	10	5.1	ug/L			09/13/19 03:56	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			09/13/19 03:56	10
trans-1,3-Dichloropropene	ND	F1 F2	10	3.7	ug/L			09/13/19 03:56	10
Trichloroethene	ND		10	4.6	ug/L			09/13/19 03:56	10
Trichlorofluoromethane	ND		10	8.8	ug/L			09/13/19 03:56	10
Vinyl chloride	ND		10	9.0	ug/L			09/13/19 03:56	10
Xylenes, Total	ND		20	6.6	ug/L			09/13/19 03:56	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04_0919

Lab Sample ID: 480-158676-4

Date Collected: 09/04/19 13:10
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*09/13/19 03:56*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/13/19 03:56*	*10*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/13/19 03:56*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*09/13/19 03:56*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/13/19 20:32	1
2,4,6-Trichlorophenol	ND	F1	5.0	0.61	ug/L		09/10/19 15:12	09/13/19 20:32	1
2,4-Dichlorophenol	**5.6**		5.0	0.51	ug/L		09/10/19 15:12	09/13/19 20:32	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/13/19 20:32	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/13/19 20:32	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/13/19 20:32	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 20:32	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/13/19 20:32	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/10/19 15:12	09/13/19 20:32	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/13/19 20:32	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 20:32	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/13/19 20:32	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/13/19 20:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 20:32	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/13/19 20:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/13/19 20:32	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/13/19 20:32	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/13/19 20:32	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/13/19 20:32	1
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/13/19 20:32	1
Aniline	**0.94**	**J**	10	0.61	ug/L		09/10/19 15:12	09/13/19 20:32	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/13/19 20:32	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/13/19 20:32	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/13/19 20:32	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/13/19 20:32	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/13/19 20:32	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/13/19 20:32	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/13/19 20:32	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/13/19 20:32	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/13/19 20:32	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/13/19 20:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/13/19 20:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 20:32	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/13/19 20:32	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/13/19 20:32	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/13/19 20:32	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/13/19 20:32	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04_0919

Lab Sample ID: 480-158676-4

Date Collected: 09/04/19 13:10
Matrix: Ground Water
Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/13/19 20:32	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/13/19 20:32	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/13/19 20:32	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/13/19 20:32	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/13/19 20:32	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/13/19 20:32	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/13/19 20:32	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 20:32	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/13/19 20:32	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/13/19 20:32	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/13/19 20:32	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/13/19 20:32	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/13/19 20:32	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/13/19 20:32	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/13/19 20:32	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/13/19 20:32	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/13/19 20:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/13/19 20:32	1
N-Nitrosodiphenylamine	**0.61**	**J**	5.0	0.51	ug/L		09/10/19 15:12	09/13/19 20:32	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/13/19 20:32	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/13/19 20:32	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/13/19 20:32	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/13/19 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*113*		*41 - 120*	*09/10/19 15:12*	*09/13/19 20:32*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*09/10/19 15:12*	*09/13/19 20:32*	*1*
2-Fluorophenol	*61*		*35 - 120*	*09/10/19 15:12*	*09/13/19 20:32*	*1*
Nitrobenzene-d5	*83*		*46 - 120*	*09/10/19 15:12*	*09/13/19 20:32*	*1*
Phenol-d5	*44*		*22 - 120*	*09/10/19 15:12*	*09/13/19 20:32*	*1*
p-Terphenyl-d14	*74*		*60 - 148*	*09/10/19 15:12*	*09/13/19 20:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 19:34	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 19:34	1
Arsenic	ND		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 19:34	1
Barium	**0.37**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 19:34	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 19:34	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 19:34	1
Calcium	**210**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 19:34	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 19:34	1
Cobalt	ND		0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 19:34	1
Copper	**0.0050**	**J**	0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 19:34	1
Iron	**4.9**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 12:47	1
Lead	**0.0056**	**J**	0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 19:34	1
Magnesium	**25.8**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 19:34	1
Manganese	**1.0**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 19:34	1
Nickel	ND		0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 19:34	1
Potassium	**9.6**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 19:34	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04_0919

Lab Sample ID: 480-158676-4

Date Collected: 09/04/19 13:10

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 19:34	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 19:34	1
Sodium	**47.5**		1.0	0.32	mg/L		09/09/19 09:35	09/10/19 19:34	1
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 19:34	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 19:34	1
Zinc	**0.0080**	**J**	0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 19:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:28	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-20_0919

Lab Sample ID: 480-158676-5

Date Collected: 09/05/19 09:55

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/13/19 04:20	2
1,1,2,2-Tetrachloroethane	ND	*	2.0	0.42	ug/L			09/13/19 04:20	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			09/13/19 04:20	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/13/19 04:20	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			09/13/19 04:20	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/13/19 04:20	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			09/13/19 04:20	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			09/13/19 04:20	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			09/13/19 04:20	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			09/13/19 04:20	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/13/19 04:20	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/13/19 04:20	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			09/13/19 04:20	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			09/13/19 04:20	2
2-Butanone (MEK)	ND		20	2.6	ug/L			09/13/19 04:20	2
2-Hexanone	ND		10	2.5	ug/L			09/13/19 04:20	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			09/13/19 04:20	2
Acetone	ND		20	6.0	ug/L			09/13/19 04:20	2
Benzene	ND		2.0	0.82	ug/L			09/13/19 04:20	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/13/19 04:20	2
Bromoform	ND		2.0	0.52	ug/L			09/13/19 04:20	2
Bromomethane	ND		2.0	1.4	ug/L			09/13/19 04:20	2
Carbon disulfide	ND		2.0	0.38	ug/L			09/13/19 04:20	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/13/19 04:20	2
Chlorobenzene	**29**		2.0	1.5	ug/L			09/13/19 04:20	2
Chloroethane	ND		2.0	0.64	ug/L			09/13/19 04:20	2
Chloroform	ND		2.0	0.68	ug/L			09/13/19 04:20	2
Chloromethane	ND		2.0	0.70	ug/L			09/13/19 04:20	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/13/19 04:20	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/13/19 04:20	2
Cyclohexane	ND		2.0	0.36	ug/L			09/13/19 04:20	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/13/19 04:20	2
Dichlorodifluoromethane	ND	*	2.0	1.4	ug/L			09/13/19 04:20	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/13/19 04:20	2
Isopropylbenzene	ND		2.0	1.6	ug/L			09/13/19 04:20	2
Methyl acetate	ND	*	5.0	2.6	ug/L			09/13/19 04:20	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			09/13/19 04:20	2
Methylcyclohexane	ND		2.0	0.32	ug/L			09/13/19 04:20	2
Methylene Chloride	ND		2.0	0.88	ug/L			09/13/19 04:20	2
Styrene	ND		2.0	1.5	ug/L			09/13/19 04:20	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/13/19 04:20	2
Toluene	ND		2.0	1.0	ug/L			09/13/19 04:20	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/13/19 04:20	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/13/19 04:20	2
Trichloroethene	ND		2.0	0.92	ug/L			09/13/19 04:20	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			09/13/19 04:20	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/13/19 04:20	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/13/19 04:20	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-20_0919

Lab Sample ID: 480-158676-5

Date Collected: 09/05/19 09:55
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/13/19 04:20*	*2*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*09/13/19 04:20*	*2*
Toluene-d8 (Surr)	*87*		*80 - 120*		*09/13/19 04:20*	*2*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*09/13/19 04:20*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 05:32	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/10/19 15:12	09/14/19 05:32	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 05:32	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/14/19 05:32	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 05:32	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 05:32	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:32	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 05:32	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/10/19 15:12	09/14/19 05:32	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/14/19 05:32	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:32	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/14/19 05:32	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 05:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:32	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/14/19 05:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/14/19 05:32	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/14/19 05:32	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/14/19 05:32	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/14/19 05:32	1
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 05:32	1
Aniline	ND		10	0.61	ug/L		09/10/19 15:12	09/14/19 05:32	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/14/19 05:32	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 05:32	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/14/19 05:32	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 05:32	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 05:32	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 05:32	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 05:32	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/14/19 05:32	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/14/19 05:32	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/14/19 05:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 05:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:32	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 05:32	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/14/19 05:32	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 05:32	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/14/19 05:32	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-20_0919

Lab Sample ID: 480-158676-5

Date Collected: 09/05/19 09:55
Date Received: 09/05/19 15:50

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/14/19 05:32	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/14/19 05:32	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/14/19 05:32	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/14/19 05:32	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 05:32	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/14/19 05:32	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 05:32	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 05:32	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 05:32	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 05:32	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/14/19 05:32	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 05:32	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 05:32	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 05:32	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/14/19 05:32	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/14/19 05:32	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/14/19 05:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 05:32	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 05:32	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 05:32	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/14/19 05:32	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/14/19 05:32	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*113*		*41 - 120*	*09/10/19 15:12*	*09/14/19 05:32*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*09/10/19 15:12*	*09/14/19 05:32*	*1*
2-Fluorophenol	*60*		*35 - 120*	*09/10/19 15:12*	*09/14/19 05:32*	*1*
Nitrobenzene-d5	*82*		*46 - 120*	*09/10/19 15:12*	*09/14/19 05:32*	*1*
Phenol-d5	*43*		*22 - 120*	*09/10/19 15:12*	*09/14/19 05:32*	*1*
p-Terphenyl-d14	*78*		*60 - 148*	*09/10/19 15:12*	*09/14/19 05:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 20:03	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 20:03	1
Arsenic	**0.083**		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 20:03	1
Barium	**0.012**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 20:03	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 20:03	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 20:03	1
Calcium	**217**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:03	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 20:03	1
Cobalt	ND		0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 20:03	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 20:03	1
Iron	**33.0**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 13:17	1
Lead	**0.0059**	**J**	0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 20:03	1
Magnesium	**9.4**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 20:03	1
Manganese	**0.18**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 20:03	1
Nickel	ND		0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 20:03	1
Potassium	**52.5**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:03	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-20_0919

Lab Sample ID: 480-158676-5

Date Collected: 09/05/19 09:55

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 20:03	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 20:03	1
Sodium	**60.4**		1.0	0.32	mg/L		09/09/19 09:35	09/10/19 20:03	1
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 20:03	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 20:03	1
Zinc	**0.014**		0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 20:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:34	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-05A_0919

Lab Sample ID: 480-158676-6

Date Collected: 09/05/19 11:00
Matrix: Ground Water
Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			09/13/19 04:44	5
1,1,2,2-Tetrachloroethane	ND	*	5.0	1.1	ug/L			09/13/19 04:44	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			09/13/19 04:44	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			09/13/19 04:44	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			09/13/19 04:44	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			09/13/19 04:44	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			09/13/19 04:44	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			09/13/19 04:44	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			09/13/19 04:44	5
1,2-Dichlorobenzene	**6.4**		5.0	4.0	ug/L			09/13/19 04:44	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			09/13/19 04:44	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			09/13/19 04:44	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			09/13/19 04:44	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			09/13/19 04:44	5
2-Butanone (MEK)	ND		50	6.6	ug/L			09/13/19 04:44	5
2-Hexanone	ND		25	6.2	ug/L			09/13/19 04:44	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			09/13/19 04:44	5
Acetone	ND		50	15	ug/L			09/13/19 04:44	5
Benzene	ND		5.0	2.1	ug/L			09/13/19 04:44	5
Bromodichloromethane	ND		5.0	2.0	ug/L			09/13/19 04:44	5
Bromoform	ND		5.0	1.3	ug/L			09/13/19 04:44	5
Bromomethane	ND		5.0	3.5	ug/L			09/13/19 04:44	5
Carbon disulfide	ND		5.0	0.95	ug/L			09/13/19 04:44	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			09/13/19 04:44	5
Chlorobenzene	**280**		5.0	3.8	ug/L			09/13/19 04:44	5
Chloroethane	ND		5.0	1.6	ug/L			09/13/19 04:44	5
Chloroform	ND		5.0	1.7	ug/L			09/13/19 04:44	5
Chloromethane	ND		5.0	1.8	ug/L			09/13/19 04:44	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			09/13/19 04:44	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			09/13/19 04:44	5
Cyclohexane	ND		5.0	0.90	ug/L			09/13/19 04:44	5
Dibromochloromethane	ND		5.0	1.6	ug/L			09/13/19 04:44	5
Dichlorodifluoromethane	ND	*	5.0	3.4	ug/L			09/13/19 04:44	5
Ethylbenzene	ND		5.0	3.7	ug/L			09/13/19 04:44	5
Isopropylbenzene	ND		5.0	4.0	ug/L			09/13/19 04:44	5
Methyl acetate	ND	*	13	6.5	ug/L			09/13/19 04:44	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			09/13/19 04:44	5
Methylcyclohexane	ND		5.0	0.80	ug/L			09/13/19 04:44	5
Methylene Chloride	ND		5.0	2.2	ug/L			09/13/19 04:44	5
Styrene	ND		5.0	3.7	ug/L			09/13/19 04:44	5
Tetrachloroethene	ND		5.0	1.8	ug/L			09/13/19 04:44	5
Toluene	ND		5.0	2.6	ug/L			09/13/19 04:44	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			09/13/19 04:44	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			09/13/19 04:44	5
Trichloroethene	ND		5.0	2.3	ug/L			09/13/19 04:44	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			09/13/19 04:44	5
Vinyl chloride	ND		5.0	4.5	ug/L			09/13/19 04:44	5
Xylenes, Total	ND		10	3.3	ug/L			09/13/19 04:44	5

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-05A_0919

Lab Sample ID: 480-158676-6

Date Collected: 09/05/19 11:00
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*09/13/19 04:44*	*5*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/13/19 04:44*	*5*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/13/19 04:44*	*5*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/13/19 04:44*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 06:00	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/10/19 15:12	09/14/19 06:00	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:00	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/14/19 06:00	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:00	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:00	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:00	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 06:00	1
2-Chlorophenol	**3.0**	**J**	5.0	0.53	ug/L		09/10/19 15:12	09/14/19 06:00	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/14/19 06:00	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:00	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/14/19 06:00	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 06:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:00	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/14/19 06:00	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/14/19 06:00	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/14/19 06:00	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/14/19 06:00	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/14/19 06:00	1
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 06:00	1
Aniline	ND		10	0.61	ug/L		09/10/19 15:12	09/14/19 06:00	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/14/19 06:00	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 06:00	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/14/19 06:00	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:00	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:00	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 06:00	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:00	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/14/19 06:00	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/14/19 06:00	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/14/19 06:00	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:00	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 06:00	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/14/19 06:00	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 06:00	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/14/19 06:00	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-05A_0919

Lab Sample ID: 480-158676-6

Date Collected: 09/05/19 11:00
Matrix: Ground Water
Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/14/19 06:00	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/14/19 06:00	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/14/19 06:00	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/14/19 06:00	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:00	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/14/19 06:00	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:00	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:00	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:00	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:00	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/14/19 06:00	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:00	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:00	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:00	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/14/19 06:00	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/14/19 06:00	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/14/19 06:00	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 06:00	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:00	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:00	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/14/19 06:00	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/14/19 06:00	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*121*	*X*	*41 - 120*	*09/10/19 15:12*	*09/14/19 06:00*	*1*
2-Fluorobiphenyl	*100*		*48 - 120*	*09/10/19 15:12*	*09/14/19 06:00*	*1*
2-Fluorophenol	*63*		*35 - 120*	*09/10/19 15:12*	*09/14/19 06:00*	*1*
Nitrobenzene-d5	*91*		*46 - 120*	*09/10/19 15:12*	*09/14/19 06:00*	*1*
Phenol-d5	*48*		*22 - 120*	*09/10/19 15:12*	*09/14/19 06:00*	*1*
p-Terphenyl-d14	*78*		*60 - 148*	*09/10/19 15:12*	*09/14/19 06:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 20:07	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 20:07	1
Arsenic	**0.27**		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 20:07	1
Barium	**0.023**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 20:07	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 20:07	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 20:07	1
Calcium	**239**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:07	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 20:07	1
Cobalt	**0.0026**	**J**	0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 20:07	1
Copper	**0.0028**	**J**	0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 20:07	1
Iron	**17.1**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 13:21	1
Lead	**0.0055**	**J**	0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 20:07	1
Magnesium	**22.2**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 20:07	1
Manganese	**0.45**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 20:07	1
Nickel	**0.0029**	**J**	0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 20:07	1
Potassium	**14.4**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:07	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-05A_0919

Lab Sample ID: 480-158676-6

Date Collected: 09/05/19 11:00

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 20:07	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 20:07	1
Sodium	**83.7**		1.0	0.32	mg/L		09/09/19 09:35	09/10/19 20:07	1
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 20:07	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 20:07	1
Zinc	**0.086**		0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 20:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:37	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-06_0919

Lab Sample ID: 480-158676-7

Date Collected: 09/05/19 11:50
Matrix: Ground Water
Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/13/19 05:08	2
1,1,2,2-Tetrachloroethane	ND	*	2.0	0.42	ug/L			09/13/19 05:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			09/13/19 05:08	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/13/19 05:08	2
1,1-Dichloroethane	**1.1**	**J**	2.0	0.76	ug/L			09/13/19 05:08	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/13/19 05:08	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			09/13/19 05:08	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			09/13/19 05:08	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			09/13/19 05:08	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			09/13/19 05:08	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/13/19 05:08	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/13/19 05:08	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			09/13/19 05:08	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			09/13/19 05:08	2
2-Butanone (MEK)	ND		20	2.6	ug/L			09/13/19 05:08	2
2-Hexanone	ND		10	2.5	ug/L			09/13/19 05:08	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			09/13/19 05:08	2
Acetone	ND		20	6.0	ug/L			09/13/19 05:08	2
Benzene	ND		2.0	0.82	ug/L			09/13/19 05:08	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/13/19 05:08	2
Bromoform	ND		2.0	0.52	ug/L			09/13/19 05:08	2
Bromomethane	ND		2.0	1.4	ug/L			09/13/19 05:08	2
Carbon disulfide	ND		2.0	0.38	ug/L			09/13/19 05:08	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/13/19 05:08	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/13/19 05:08	2
Chloroethane	ND		2.0	0.64	ug/L			09/13/19 05:08	2
Chloroform	ND		2.0	0.68	ug/L			09/13/19 05:08	2
Chloromethane	ND		2.0	0.70	ug/L			09/13/19 05:08	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/13/19 05:08	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/13/19 05:08	2
Cyclohexane	ND		2.0	0.36	ug/L			09/13/19 05:08	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/13/19 05:08	2
Dichlorodifluoromethane	ND	*	2.0	1.4	ug/L			09/13/19 05:08	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/13/19 05:08	2
Isopropylbenzene	ND		2.0	1.6	ug/L			09/13/19 05:08	2
Methyl acetate	ND	*	5.0	2.6	ug/L			09/13/19 05:08	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			09/13/19 05:08	2
Methylcyclohexane	ND		2.0	0.32	ug/L			09/13/19 05:08	2
Methylene Chloride	ND		2.0	0.88	ug/L			09/13/19 05:08	2
Styrene	ND		2.0	1.5	ug/L			09/13/19 05:08	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/13/19 05:08	2
Toluene	ND		2.0	1.0	ug/L			09/13/19 05:08	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/13/19 05:08	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/13/19 05:08	2
Trichloroethene	ND		2.0	0.92	ug/L			09/13/19 05:08	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			09/13/19 05:08	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/13/19 05:08	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/13/19 05:08	2

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-06_0919

Lab Sample ID: 480-158676-7

Date Collected: 09/05/19 11:50
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*09/13/19 05:08*	*2*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/13/19 05:08*	*2*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/13/19 05:08*	*2*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/13/19 05:08*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 06:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/10/19 15:12	09/14/19 06:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/14/19 06:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:28	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 06:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/10/19 15:12	09/14/19 06:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/14/19 06:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:28	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/14/19 06:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 06:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:28	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/14/19 06:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/14/19 06:28	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/14/19 06:28	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/14/19 06:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/14/19 06:28	1
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 06:28	1
Aniline	ND		10	0.61	ug/L		09/10/19 15:12	09/14/19 06:28	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/14/19 06:28	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 06:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/14/19 06:28	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:28	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:28	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 06:28	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:28	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/14/19 06:28	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/14/19 06:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/14/19 06:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 06:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/14/19 06:28	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 06:28	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/14/19 06:28	1

Client Sample ID: BCC Area C PS-06_0919

Lab Sample ID: 480-158676-7

Date Collected: 09/05/19 11:50

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/14/19 06:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/14/19 06:28	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/14/19 06:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/14/19 06:28	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:28	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/14/19 06:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:28	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:28	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/14/19 06:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:28	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:28	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/14/19 06:28	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/14/19 06:28	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/14/19 06:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 06:28	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:28	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:28	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/14/19 06:28	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/14/19 06:28	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*117*		*41 - 120*	*09/10/19 15:12*	*09/14/19 06:28*	*1*
2-Fluorobiphenyl	*87*		*48 - 120*	*09/10/19 15:12*	*09/14/19 06:28*	*1*
2-Fluorophenol	*56*		*35 - 120*	*09/10/19 15:12*	*09/14/19 06:28*	*1*
Nitrobenzene-d5	*81*		*46 - 120*	*09/10/19 15:12*	*09/14/19 06:28*	*1*
Phenol-d5	*41*		*22 - 120*	*09/10/19 15:12*	*09/14/19 06:28*	*1*
p-Terphenyl-d14	*66*		*60 - 148*	*09/10/19 15:12*	*09/14/19 06:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.089**	**J**	0.20	0.060	mg/L		09/09/19 09:35	09/10/19 20:11	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 20:11	1
Arsenic	ND		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 20:11	1
Barium	**0.36**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 20:11	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 20:11	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 20:11	1
Calcium	**203**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:11	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 20:11	1
Cobalt	ND		0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 20:11	1
Copper	**0.0064**	**J**	0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 20:11	1
Iron	**4.8**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 13:25	1
Lead	**0.0056**	**J**	0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 20:11	1
Magnesium	**24.9**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 20:11	1
Manganese	**0.98**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 20:11	1
Nickel	ND		0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 20:11	1
Potassium	**9.5**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:11	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C PS-06_0919

Lab Sample ID: 480-158676-7

Date Collected: 09/05/19 11:50

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 20:11	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 20:11	1
Sodium	**43.3**		1.0	0.32	mg/L		09/09/19 09:35	09/10/19 20:11	1
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 20:11	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 20:11	1
Zinc	**0.0074**	**J**	0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 20:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:39	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04 D_0919

Lab Sample ID: 480-158676-8

Date Collected: 09/05/19 13:20
Matrix: Ground Water
Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			09/13/19 05:32	10
1,1,2,2-Tetrachloroethane	ND	*	10	2.1	ug/L			09/13/19 05:32	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			09/13/19 05:32	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			09/13/19 05:32	10
1,1-Dichloroethane	ND		10	3.8	ug/L			09/13/19 05:32	10
1,1-Dichloroethene	ND		10	2.9	ug/L			09/13/19 05:32	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			09/13/19 05:32	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			09/13/19 05:32	10
1,2-Dibromoethane	ND		10	7.3	ug/L			09/13/19 05:32	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			09/13/19 05:32	10
1,2-Dichloroethane	ND		10	2.1	ug/L			09/13/19 05:32	10
1,2-Dichloropropane	ND		10	7.2	ug/L			09/13/19 05:32	10
1,3-Dichlorobenzene	**36**		10	7.8	ug/L			09/13/19 05:32	10
1,4-Dichlorobenzene	**74**		10	8.4	ug/L			09/13/19 05:32	10
2-Butanone (MEK)	ND		100	13	ug/L			09/13/19 05:32	10
2-Hexanone	ND		50	12	ug/L			09/13/19 05:32	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			09/13/19 05:32	10
Acetone	ND		100	30	ug/L			09/13/19 05:32	10
Benzene	ND		10	4.1	ug/L			09/13/19 05:32	10
Bromodichloromethane	ND		10	3.9	ug/L			09/13/19 05:32	10
Bromoform	ND		10	2.6	ug/L			09/13/19 05:32	10
Bromomethane	ND		10	6.9	ug/L			09/13/19 05:32	10
Carbon disulfide	ND		10	1.9	ug/L			09/13/19 05:32	10
Carbon tetrachloride	ND		10	2.7	ug/L			09/13/19 05:32	10
Chlorobenzene	**540**		10	7.5	ug/L			09/13/19 05:32	10
Chloroethane	ND		10	3.2	ug/L			09/13/19 05:32	10
Chloroform	ND		10	3.4	ug/L			09/13/19 05:32	10
Chloromethane	ND		10	3.5	ug/L			09/13/19 05:32	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			09/13/19 05:32	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			09/13/19 05:32	10
Cyclohexane	ND		10	1.8	ug/L			09/13/19 05:32	10
Dibromochloromethane	ND		10	3.2	ug/L			09/13/19 05:32	10
Dichlorodifluoromethane	ND	*	10	6.8	ug/L			09/13/19 05:32	10
Ethylbenzene	ND		10	7.4	ug/L			09/13/19 05:32	10
Isopropylbenzene	ND		10	7.9	ug/L			09/13/19 05:32	10
Methyl acetate	ND	*	25	13	ug/L			09/13/19 05:32	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			09/13/19 05:32	10
Methylcyclohexane	ND		10	1.6	ug/L			09/13/19 05:32	10
Methylene Chloride	ND		10	4.4	ug/L			09/13/19 05:32	10
Styrene	ND		10	7.3	ug/L			09/13/19 05:32	10
Tetrachloroethene	ND		10	3.6	ug/L			09/13/19 05:32	10
Toluene	ND		10	5.1	ug/L			09/13/19 05:32	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			09/13/19 05:32	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			09/13/19 05:32	10
Trichloroethene	ND		10	4.6	ug/L			09/13/19 05:32	10
Trichlorofluoromethane	ND		10	8.8	ug/L			09/13/19 05:32	10
Vinyl chloride	ND		10	9.0	ug/L			09/13/19 05:32	10
Xylenes, Total	ND		20	6.6	ug/L			09/13/19 05:32	10

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04 D_0919

Lab Sample ID: 480-158676-8

Date Collected: 09/05/19 13:20
Matrix: Ground Water
Date Received: 09/05/19 15:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/13/19 05:32*	*10*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*09/13/19 05:32*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/13/19 05:32*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/13/19 05:32*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 06:56	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/10/19 15:12	09/14/19 06:56	1
2,4-Dichlorophenol	**6.4**		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:56	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/14/19 06:56	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:56	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:56	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:56	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 06:56	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/10/19 15:12	09/14/19 06:56	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/14/19 06:56	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:56	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/14/19 06:56	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/14/19 06:56	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:56	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/14/19 06:56	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/14/19 06:56	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/14/19 06:56	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/14/19 06:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/14/19 06:56	1
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 06:56	1
Aniline	**0.78**	**J**	10	0.61	ug/L		09/10/19 15:12	09/14/19 06:56	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/14/19 06:56	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/14/19 06:56	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/14/19 06:56	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:56	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:56	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 06:56	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:56	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/14/19 06:56	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/14/19 06:56	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/14/19 06:56	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/14/19 06:56	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:56	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 06:56	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/14/19 06:56	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/14/19 06:56	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/14/19 06:56	1

Client Sample ID: BCC Area C MW-C04 D_0919

Lab Sample ID: 480-158676-8

Date Collected: 09/05/19 13:20

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/14/19 06:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/14/19 06:56	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/14/19 06:56	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/14/19 06:56	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:56	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/14/19 06:56	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:56	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/14/19 06:56	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/14/19 06:56	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:56	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/14/19 06:56	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:56	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/14/19 06:56	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/14/19 06:56	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/14/19 06:56	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/14/19 06:56	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/14/19 06:56	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/14/19 06:56	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/10/19 15:12	09/14/19 06:56	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/14/19 06:56	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/14/19 06:56	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/14/19 06:56	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/14/19 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*121*	*X*	*41 - 120*	*09/10/19 15:12*	*09/14/19 06:56*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*09/10/19 15:12*	*09/14/19 06:56*	*1*
2-Fluorophenol	*62*		*35 - 120*	*09/10/19 15:12*	*09/14/19 06:56*	*1*
Nitrobenzene-d5	*87*		*46 - 120*	*09/10/19 15:12*	*09/14/19 06:56*	*1*
Phenol-d5	*45*		*22 - 120*	*09/10/19 15:12*	*09/14/19 06:56*	*1*
p-Terphenyl-d14	*68*		*60 - 148*	*09/10/19 15:12*	*09/14/19 06:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 20:14	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 20:14	1
Arsenic	ND		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 20:14	1
Barium	**0.055**		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 20:14	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 20:14	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 20:14	1
Calcium	**149**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:14	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 20:14	1
Cobalt	ND		0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 20:14	1
Copper	**0.0022**	**J**	0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 20:14	1
Iron	**3.9**	**B**	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 13:29	1
Lead	**0.0047**	**J**	0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 20:14	1
Magnesium	**14.1**		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 20:14	1
Manganese	**0.30**		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 20:14	1
Nickel	ND		0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 20:14	1
Potassium	**8.6**		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 20:14	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04 D_0919

Lab Sample ID: 480-158676-8

Date Collected: 09/05/19 13:20

Matrix: Ground Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 20:14	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 20:14	1
Sodium	**28.7**		1.0	0.32	mg/L		09/09/19 09:35	09/10/19 20:14	1
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 20:14	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 20:14	1
Zinc	**0.0063**	**J**	0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 20:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:40	1

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-158676-9

Date Collected: 09/05/19 00:00

Matrix: Water

Date Received: 09/05/19 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/13/19 05:56	1
1,1,2,2-Tetrachloroethane	ND	*	1.0	0.21	ug/L			09/13/19 05:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/13/19 05:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/13/19 05:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/13/19 05:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/13/19 05:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/13/19 05:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/13/19 05:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/13/19 05:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/13/19 05:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/13/19 05:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/13/19 05:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/13/19 05:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/13/19 05:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/13/19 05:56	1
2-Hexanone	ND		5.0	1.2	ug/L			09/13/19 05:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/13/19 05:56	1
Acetone	ND		10	3.0	ug/L			09/13/19 05:56	1
Benzene	ND		1.0	0.41	ug/L			09/13/19 05:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/13/19 05:56	1
Bromoform	ND		1.0	0.26	ug/L			09/13/19 05:56	1
Bromomethane	ND		1.0	0.69	ug/L			09/13/19 05:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/13/19 05:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/13/19 05:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/13/19 05:56	1
Chloroethane	ND		1.0	0.32	ug/L			09/13/19 05:56	1
Chloroform	ND		1.0	0.34	ug/L			09/13/19 05:56	1
Chloromethane	ND		1.0	0.35	ug/L			09/13/19 05:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/13/19 05:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/13/19 05:56	1
Cyclohexane	ND		1.0	0.18	ug/L			09/13/19 05:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/13/19 05:56	1
Dichlorodifluoromethane	ND	*	1.0	0.68	ug/L			09/13/19 05:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/13/19 05:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/13/19 05:56	1
Methyl acetate	ND	*	2.5	1.3	ug/L			09/13/19 05:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/13/19 05:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/13/19 05:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/13/19 05:56	1
Styrene	ND		1.0	0.73	ug/L			09/13/19 05:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/13/19 05:56	1
Toluene	ND		1.0	0.51	ug/L			09/13/19 05:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/13/19 05:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/13/19 05:56	1
Trichloroethene	ND		1.0	0.46	ug/L			09/13/19 05:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/13/19 05:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/13/19 05:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/13/19 05:56	1

Client Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-158676-9

Date Collected: 09/05/19 00:00

Matrix: Water

Date Received: 09/05/19 15:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		09/13/19 05:56	1
4-Bromofluorobenzene (Surr)	95		73 - 120		09/13/19 05:56	1
Toluene-d8 (Surr)	99		80 - 120		09/13/19 05:56	1
Dibromofluoromethane (Surr)	105		75 - 123		09/13/19 05:56	1

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-158676-1	BCC Area C MW-C01_0919	103	99	97	112
480-158676-2	BCC Area C RFI-31_0919	111	103	97	110
480-158676-4	BCC Area C MW-C04_0919	93	94	93	100
480-158676-4 MS	BCC Area C MW-C04 MS_0919	103	105	92	108
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	106	104	110	113
480-158676-5	BCC Area C RFI-20_0919	103	108	87	109
480-158676-6	BCC Area C PS-05A_0919	94	102	107	105
480-158676-7	BCC Area C PS-06_0919	97	103	96	101
480-158676-8	BCC Area C MW-C04 D_0919	99	113	99	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-158676-9	TRIP BLANK	96	95	99	105
LCS 480-491772/5	Lab Control Sample	97	90	82	103
LCS 480-491987/5	Lab Control Sample	106	104	98	106
MB 480-491772/7	Method Blank	101	98	107	108
MB 480-491987/7	Method Blank	109	101	95	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-158676-1	BCC Area C MW-C01_0919	92	89	60	83	49	72
480-158676-2	BCC Area C RFI-31_0919	114	85	57	76	41	73
480-158676-4	BCC Area C MW-C04_0919	113	91	61	83	44	74
480-158676-4 MS	BCC Area C MW-C04 MS_0919	125 X	98	67	90	52	76
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	118	91	65	94	49	74
480-158676-5	BCC Area C RFI-20_0919	113	90	60	82	43	78
480-158676-6	BCC Area C PS-05A_0919	121 X	100	63	91	48	78
480-158676-7	BCC Area C PS-06_0919	117	87	56	81	41	66
480-158676-8	BCC Area C MW-C04 D_0919	121 X	93	62	87	45	68

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
LCS 480-491245/2-A	Lab Control Sample	110	92	67	96	51	96
MB 480-491245/1-A	Method Blank	85	93	63	86	46	97

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-491772/7
Matrix: Water
Analysis Batch: 491772

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/12/19 22:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/12/19 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/12/19 22:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/12/19 22:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/12/19 22:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/12/19 22:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/12/19 22:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/12/19 22:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/12/19 22:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/12/19 22:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/12/19 22:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/12/19 22:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/12/19 22:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/12/19 22:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/12/19 22:16	1
2-Hexanone	ND		5.0	1.2	ug/L			09/12/19 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/12/19 22:16	1
Acetone	ND		10	3.0	ug/L			09/12/19 22:16	1
Benzene	ND		1.0	0.41	ug/L			09/12/19 22:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/12/19 22:16	1
Bromoform	ND		1.0	0.26	ug/L			09/12/19 22:16	1
Bromomethane	ND		1.0	0.69	ug/L			09/12/19 22:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/12/19 22:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/12/19 22:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/12/19 22:16	1
Chloroethane	ND		1.0	0.32	ug/L			09/12/19 22:16	1
Chloroform	ND		1.0	0.34	ug/L			09/12/19 22:16	1
Chloromethane	ND		1.0	0.35	ug/L			09/12/19 22:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/12/19 22:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/12/19 22:16	1
Cyclohexane	ND		1.0	0.18	ug/L			09/12/19 22:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/12/19 22:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/12/19 22:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/12/19 22:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/12/19 22:16	1
Methyl acetate	ND		2.5	1.3	ug/L			09/12/19 22:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/12/19 22:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/12/19 22:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/12/19 22:16	1
Styrene	ND		1.0	0.73	ug/L			09/12/19 22:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/12/19 22:16	1
Toluene	ND		1.0	0.51	ug/L			09/12/19 22:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/12/19 22:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/12/19 22:16	1
Trichloroethene	ND		1.0	0.46	ug/L			09/12/19 22:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/12/19 22:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/12/19 22:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/12/19 22:16	1

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

Lab Sample ID: MB 480-491772/7
Matrix: Water
Analysis Batch: 491772

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/12/19 22:16	1
4-Bromofluorobenzene (Surr)	98		73 - 120		09/12/19 22:16	1
Toluene-d8 (Surr)	107		80 - 120		09/12/19 22:16	1
Dibromofluoromethane (Surr)	108		75 - 123		09/12/19 22:16	1

Lab Sample ID: LCS 480-491772/5
Matrix: Water
Analysis Batch: 491772

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	18.6	*	ug/L		75	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3		ug/L		89	61 - 148
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	20.3		ug/L		81	77 - 120
1,1-Dichloroethene	25.0	21.8		ug/L		87	66 - 127
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	56 - 134
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	23.6		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	80 - 120
2-Butanone (MEK)	125	109		ug/L		88	57 - 140
2-Hexanone	125	114		ug/L		91	65 - 127
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	71 - 125
Acetone	125	95.2		ug/L		76	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	21.5		ug/L		86	80 - 122
Bromoform	25.0	23.7		ug/L		95	61 - 132
Bromomethane	25.0	21.0		ug/L		84	55 - 144
Carbon disulfide	25.0	19.9		ug/L		80	59 - 134
Carbon tetrachloride	25.0	24.6		ug/L		98	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Chloroethane	25.0	20.2		ug/L		81	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	26.1		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	22.0		ug/L		88	74 - 124
Cyclohexane	25.0	23.7		ug/L		95	59 - 135
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Dichlorodifluoromethane	25.0	35.6	*	ug/L		142	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methyl acetate	50.0	34.8	*	ug/L		70	74 - 133
Methyl tert-butyl ether	25.0	21.1		ug/L		84	77 - 120
Methylcyclohexane	25.0	25.2		ug/L		101	68 - 134

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

Lab Sample ID: LCS 480-491772/5
Matrix: Water
Analysis Batch: 491772

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	21.5		ug/L		86	75 - 124
Styrene	25.0	26.1		ug/L		104	80 - 120
Tetrachloroethene	25.0	25.0		ug/L		100	74 - 122
Toluene	25.0	21.7		ug/L		87	80 - 122
trans-1,2-Dichloroethene	25.0	20.6		ug/L		82	73 - 127
trans-1,3-Dichloropropene	25.0	22.9		ug/L		92	80 - 120
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	27.7		ug/L		111	62 - 150
Vinyl chloride	25.0	22.8		ug/L		91	65 - 133
Xylenes, Total	50.0	50.8		ug/L		102	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Toluene-d8 (Surr)	*82*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-158676-4 MS
Matrix: Ground Water
Analysis Batch: 491772

Client Sample ID: BCC Area C MW-C04 MS_0919
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	258		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	ND	*	250	214		ug/L		86	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	243		ug/L		97	61 - 148
1,1,2-Trichloroethane	ND		250	226		ug/L		90	76 - 122
1,1-Dichloroethane	ND		250	213		ug/L		85	77 - 120
1,1-Dichloroethene	ND		250	227		ug/L		91	66 - 127
1,2,4-Trichlorobenzene	ND		250	210		ug/L		84	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	205		ug/L		82	56 - 134
1,2-Dibromoethane	ND		250	238		ug/L		95	77 - 120
1,2-Dichlorobenzene	ND		250	234		ug/L		94	80 - 124
1,2-Dichloroethane	ND		250	229		ug/L		92	75 - 120
1,2-Dichloropropane	ND		250	250		ug/L		100	76 - 120
1,3-Dichlorobenzene	36		250	275		ug/L		95	77 - 120
1,4-Dichlorobenzene	76		250	302		ug/L		90	78 - 124
2-Butanone (MEK)	ND		1250	920		ug/L		74	57 - 140
2-Hexanone	ND		1250	983		ug/L		79	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	1070		ug/L		86	71 - 125
Acetone	ND	F2	1250	777		ug/L		62	56 - 142
Benzene	ND	F2	250	235		ug/L		94	71 - 124
Bromodichloromethane	ND		250	243		ug/L		97	80 - 122
Bromoform	ND		250	225		ug/L		90	61 - 132
Bromomethane	ND		250	219		ug/L		87	55 - 144
Carbon disulfide	ND	F2	250	181		ug/L		72	59 - 134
Carbon tetrachloride	ND		250	257		ug/L		103	72 - 134
Chlorobenzene	560	F1	250	684	F1	ug/L		51	80 - 120
Chloroethane	ND		250	208		ug/L		83	69 - 136

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

Lab Sample ID: 480-158676-4 MS
Matrix: Ground Water
Analysis Batch: 491772

Client Sample ID: BCC Area C MW-C04 MS_0919
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	ND		250	227		ug/L		91	73 - 127
Chloromethane	ND		250	222		ug/L		89	68 - 124
cis-1,2-Dichloroethene	ND	F2	250	234		ug/L		93	74 - 124
cis-1,3-Dichloropropene	ND		250	233		ug/L		93	74 - 124
Cyclohexane	ND		250	232		ug/L		93	59 - 135
Dibromochloromethane	ND		250	231		ug/L		92	75 - 125
Dichlorodifluoromethane	ND	*	250	234		ug/L		93	59 - 135
Ethylbenzene	ND		250	232		ug/L		93	77 - 123
Isopropylbenzene	ND		250	217		ug/L		87	77 - 122
Methyl acetate	ND	* F1	500	312	F1	ug/L		62	74 - 133
Methyl tert-butyl ether	ND		250	220		ug/L		88	77 - 120
Methylcyclohexane	ND		250	248		ug/L		99	68 - 134
Methylene Chloride	ND		250	236		ug/L		94	75 - 124
Styrene	ND		250	240		ug/L		96	80 - 120
Tetrachloroethene	ND		250	246		ug/L		99	74 - 122
Toluene	ND	F2	250	211		ug/L		84	80 - 122
trans-1,2-Dichloroethene	ND		250	214		ug/L		85	73 - 127
trans-1,3-Dichloropropene	ND	F1 F2	250	197	F1	ug/L		79	80 - 120
Trichloroethene	ND		250	236		ug/L		94	74 - 123
Trichlorofluoromethane	ND		250	263		ug/L		105	62 - 150
Vinyl chloride	ND		250	231		ug/L		92	65 - 133
Xylenes, Total	ND		500	494		ug/L		99	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: 480-158676-4 MSD
Matrix: Ground Water
Analysis Batch: 491772

Client Sample ID: BCC Area C MW-C04 MSD_0919
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	293		ug/L		117	73 - 126	13	15
1,1,2,2-Tetrachloroethane	ND	*	250	216		ug/L		86	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		250	266		ug/L		106	61 - 148	9	20
1,1,2-Trichloroethane	ND		250	231		ug/L		93	76 - 122	2	15
1,1-Dichloroethane	ND		250	238		ug/L		95	77 - 120	11	20
1,1-Dichloroethene	ND		250	250		ug/L		100	66 - 127	10	16
1,2,4-Trichlorobenzene	ND		250	242		ug/L		97	79 - 122	14	20
1,2-Dibromo-3-Chloropropane	ND		250	235		ug/L		94	56 - 134	14	15
1,2-Dibromoethane	ND		250	246		ug/L		98	77 - 120	3	15
1,2-Dichlorobenzene	ND		250	244		ug/L		98	80 - 124	4	20
1,2-Dichloroethane	ND		250	260		ug/L		104	75 - 120	13	20
1,2-Dichloropropane	ND		250	271		ug/L		108	76 - 120	8	20
1,3-Dichlorobenzene	36		250	284		ug/L		99	77 - 120	3	20
1,4-Dichlorobenzene	76		250	330		ug/L		101	78 - 124	9	20

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

Lab Sample ID: 480-158676-4 MSD
Matrix: Ground Water
Analysis Batch: 491772

Client Sample ID: BCC Area C MW-C04 MSD_0919
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		1250	1050		ug/L		84	57 - 140	13	20
2-Hexanone	ND		1250	932		ug/L		75	65 - 127	5	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1360		ug/L		108	71 - 125	23	35
Acetone	ND	F2	1250	942	F2	ug/L		75	56 - 142	19	15
Benzene	ND	F2	250	276	F2	ug/L		110	71 - 124	16	13
Bromodichloromethane	ND		250	263		ug/L		105	80 - 122	8	15
Bromoform	ND		250	237		ug/L		95	61 - 132	6	15
Bromomethane	ND		250	242		ug/L		97	55 - 144	10	15
Carbon disulfide	ND	F2	250	227	F2	ug/L		91	59 - 134	23	15
Carbon tetrachloride	ND		250	291		ug/L		116	72 - 134	12	15
Chlorobenzene	560	F1	250	732	F1	ug/L		70	80 - 120	7	25
Chloroethane	ND		250	219		ug/L		88	69 - 136	5	15
Chloroform	ND		250	269		ug/L		108	73 - 127	17	20
Chloromethane	ND		250	229		ug/L		92	68 - 124	3	15
cis-1,2-Dichloroethene	ND	F2	250	277	F2	ug/L		111	74 - 124	17	15
cis-1,3-Dichloropropene	ND		250	256		ug/L		102	74 - 124	10	15
Cyclohexane	ND		250	277		ug/L		111	59 - 135	18	20
Dibromochloromethane	ND		250	244		ug/L		98	75 - 125	5	15
Dichlorodifluoromethane	ND	*	250	282		ug/L		113	59 - 135	19	20
Ethylbenzene	ND		250	240		ug/L		96	77 - 123	3	15
Isopropylbenzene	ND		250	227		ug/L		91	77 - 122	4	20
Methyl acetate	ND	* F1	500	358	F1	ug/L		72	74 - 133	14	20
Methyl tert-butyl ether	ND		250	241		ug/L		96	77 - 120	9	37
Methylcyclohexane	ND		250	279		ug/L		112	68 - 134	12	20
Methylene Chloride	ND		250	237		ug/L		95	75 - 124	1	15
Styrene	ND		250	253		ug/L		101	80 - 120	5	20
Tetrachloroethene	ND		250	257		ug/L		103	74 - 122	4	20
Toluene	ND	F2	250	274	F2	ug/L		110	80 - 122	26	15
trans-1,2-Dichloroethene	ND		250	238		ug/L		95	73 - 127	11	20
trans-1,3-Dichloropropene	ND	F1 F2	250	246	F2	ug/L		98	80 - 120	22	15
Trichloroethene	ND		250	271		ug/L		109	74 - 123	14	16
Trichlorofluoromethane	ND		250	271		ug/L		108	62 - 150	3	20
Vinyl chloride	ND		250	218		ug/L		87	65 - 133	6	15
Xylenes, Total	ND		500	504		ug/L		101	76 - 122	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*110*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*75 - 123*

Lab Sample ID: MB 480-491987/7
Matrix: Water
Analysis Batch: 491987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/13/19 22:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/13/19 22:34	1

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

Lab Sample ID: MB 480-491987/7
Matrix: Water
Analysis Batch: 491987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/13/19 22:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/13/19 22:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/13/19 22:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/13/19 22:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/13/19 22:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/13/19 22:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/13/19 22:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/13/19 22:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/13/19 22:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/13/19 22:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/13/19 22:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/13/19 22:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/13/19 22:34	1
2-Hexanone	ND		5.0	1.2	ug/L			09/13/19 22:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/13/19 22:34	1
Acetone	ND		10	3.0	ug/L			09/13/19 22:34	1
Benzene	ND		1.0	0.41	ug/L			09/13/19 22:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/13/19 22:34	1
Bromoform	ND		1.0	0.26	ug/L			09/13/19 22:34	1
Bromomethane	ND		1.0	0.69	ug/L			09/13/19 22:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/13/19 22:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/13/19 22:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/13/19 22:34	1
Chloroethane	ND		1.0	0.32	ug/L			09/13/19 22:34	1
Chloroform	ND		1.0	0.34	ug/L			09/13/19 22:34	1
Chloromethane	ND		1.0	0.35	ug/L			09/13/19 22:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/13/19 22:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/13/19 22:34	1
Cyclohexane	ND		1.0	0.18	ug/L			09/13/19 22:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/13/19 22:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/13/19 22:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/13/19 22:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/13/19 22:34	1
Methyl acetate	ND		2.5	1.3	ug/L			09/13/19 22:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/13/19 22:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/13/19 22:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/13/19 22:34	1
Styrene	ND		1.0	0.73	ug/L			09/13/19 22:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/13/19 22:34	1
Toluene	ND		1.0	0.51	ug/L			09/13/19 22:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/13/19 22:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/13/19 22:34	1
Trichloroethene	ND		1.0	0.46	ug/L			09/13/19 22:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/13/19 22:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/13/19 22:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/13/19 22:34	1

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

Lab Sample ID: MB 480-491987/7
Matrix: Water
Analysis Batch: 491987

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		09/13/19 22:34	1
4-Bromofluorobenzene (Surr)	101		73 - 120		09/13/19 22:34	1
Toluene-d8 (Surr)	95		80 - 120		09/13/19 22:34	1
Dibromofluoromethane (Surr)	111		75 - 123		09/13/19 22:34	1

Lab Sample ID: LCS 480-491987/5
Matrix: Water
Analysis Batch: 491987

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.0		ug/L		92	61 - 148
1,1,2-Trichloroethane	25.0	23.6		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	22.5		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	23.6		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.7		ug/L		79	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	22.3		ug/L		89	76 - 120
1,3-Dichlorobenzene	25.0	23.1		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	102		ug/L		81	57 - 140
2-Hexanone	125	100		ug/L		80	65 - 127
4-Methyl-2-pentanone (MIBK)	125	97.1		ug/L		78	71 - 125
Acetone	125	115		ug/L		92	56 - 142
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	24.1		ug/L		96	61 - 132
Bromomethane	25.0	28.9		ug/L		116	55 - 144
Carbon disulfide	25.0	20.0		ug/L		80	59 - 134
Carbon tetrachloride	25.0	24.3		ug/L		97	72 - 134
Chlorobenzene	25.0	23.2		ug/L		93	80 - 120
Chloroethane	25.0	31.9		ug/L		128	69 - 136
Chloroform	25.0	23.6		ug/L		94	73 - 127
Chloromethane	25.0	21.0		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	22.8		ug/L		91	74 - 124
Cyclohexane	25.0	20.1		ug/L		80	59 - 135
Dibromochloromethane	25.0	24.6		ug/L		98	75 - 125
Dichlorodifluoromethane	25.0	21.4		ug/L		86	59 - 135
Ethylbenzene	25.0	22.9		ug/L		92	77 - 123
Isopropylbenzene	25.0	22.6		ug/L		90	77 - 122
Methyl acetate	50.0	34.5	*	ug/L		69	74 - 133
Methyl tert-butyl ether	25.0	22.9		ug/L		92	77 - 120
Methylcyclohexane	25.0	22.5		ug/L		90	68 - 134

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

Lab Sample ID: LCS 480-491987/5
Matrix: Water
Analysis Batch: 491987

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	23.2		ug/L		93	75 - 124
Styrene	25.0	23.0		ug/L		92	80 - 120
Tetrachloroethene	25.0	24.8		ug/L		99	74 - 122
Toluene	25.0	22.4		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	21.6		ug/L		87	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	30.6		ug/L		123	62 - 150
Vinyl chloride	25.0	23.6		ug/L		94	65 - 133
Xylenes, Total	50.0	46.3		ug/L		93	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

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

Lab Sample ID: MB 480-491245/1-A
Matrix: Water
Analysis Batch: 491948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/13/19 18:37	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		09/10/19 15:12	09/13/19 18:37	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		09/10/19 15:12	09/13/19 18:37	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		09/10/19 15:12	09/13/19 18:37	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/13/19 18:37	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		09/10/19 15:12	09/13/19 18:37	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 18:37	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		09/10/19 15:12	09/13/19 18:37	1
2-Chlorophenol	ND		5.0	0.53	ug/L		09/10/19 15:12	09/13/19 18:37	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/10/19 15:12	09/13/19 18:37	1
2-Methylphenol	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 18:37	1
2-Nitroaniline	ND		10	0.42	ug/L		09/10/19 15:12	09/13/19 18:37	1
2-Nitrophenol	ND		5.0	0.48	ug/L		09/10/19 15:12	09/13/19 18:37	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 18:37	1
3-Nitroaniline	ND		10	0.48	ug/L		09/10/19 15:12	09/13/19 18:37	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Chloroaniline	ND		5.0	0.59	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Methylphenol	ND		10	0.36	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Nitroaniline	ND		10	0.25	ug/L		09/10/19 15:12	09/13/19 18:37	1
4-Nitrophenol	ND		10	1.5	ug/L		09/10/19 15:12	09/13/19 18:37	1
Acenaphthene	ND		5.0	0.41	ug/L		09/10/19 15:12	09/13/19 18:37	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/10/19 15:12	09/13/19 18:37	1

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

Lab Sample ID: MB 480-491245/1-A
Matrix: Water
Analysis Batch: 491948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		5.0	0.54	ug/L		09/10/19 15:12	09/13/19 18:37	1
Aniline	ND		10	0.61	ug/L		09/10/19 15:12	09/13/19 18:37	1
Anthracene	ND		5.0	0.28	ug/L		09/10/19 15:12	09/13/19 18:37	1
Atrazine	ND		5.0	0.46	ug/L		09/10/19 15:12	09/13/19 18:37	1
Benzaldehyde	ND		5.0	0.27	ug/L		09/10/19 15:12	09/13/19 18:37	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/13/19 18:37	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/13/19 18:37	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/13/19 18:37	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		09/10/19 15:12	09/13/19 18:37	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		09/10/19 15:12	09/13/19 18:37	1
Biphenyl	ND		5.0	0.65	ug/L		09/10/19 15:12	09/13/19 18:37	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		09/10/19 15:12	09/13/19 18:37	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		09/10/19 15:12	09/13/19 18:37	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 18:37	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		09/10/19 15:12	09/13/19 18:37	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		09/10/19 15:12	09/13/19 18:37	1
Caprolactam	ND		5.0	2.2	ug/L		09/10/19 15:12	09/13/19 18:37	1
Carbazole	ND		5.0	0.30	ug/L		09/10/19 15:12	09/13/19 18:37	1
Chrysene	ND		5.0	0.33	ug/L		09/10/19 15:12	09/13/19 18:37	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/10/19 15:12	09/13/19 18:37	1
Dibenzofuran	ND		10	0.51	ug/L		09/10/19 15:12	09/13/19 18:37	1
Diethyl phthalate	ND		5.0	0.22	ug/L		09/10/19 15:12	09/13/19 18:37	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		09/10/19 15:12	09/13/19 18:37	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		09/10/19 15:12	09/13/19 18:37	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		09/10/19 15:12	09/13/19 18:37	1
Fluoranthene	ND		5.0	0.40	ug/L		09/10/19 15:12	09/13/19 18:37	1
Fluorene	ND		5.0	0.36	ug/L		09/10/19 15:12	09/13/19 18:37	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		09/10/19 15:12	09/13/19 18:37	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		09/10/19 15:12	09/13/19 18:37	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		09/10/19 15:12	09/13/19 18:37	1
Hexachloroethane	ND		5.0	0.59	ug/L		09/10/19 15:12	09/13/19 18:37	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		09/10/19 15:12	09/13/19 18:37	1
Isophorone	ND		5.0	0.43	ug/L		09/10/19 15:12	09/13/19 18:37	1
Naphthalene	ND		5.0	0.76	ug/L		09/10/19 15:12	09/13/19 18:37	1
Nitrobenzene	ND		5.0	0.29	ug/L		09/10/19 15:12	09/13/19 18:37	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		09/10/19 15:12	09/13/19 18:37	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		09/10/19 15:12	09/13/19 18:37	1
Pentachlorophenol	ND		10	2.2	ug/L		09/10/19 15:12	09/13/19 18:37	1
Phenanthrene	ND		5.0	0.44	ug/L		09/10/19 15:12	09/13/19 18:37	1
Phenol	ND		5.0	0.39	ug/L		09/10/19 15:12	09/13/19 18:37	1
Pyrene	ND		5.0	0.34	ug/L		09/10/19 15:12	09/13/19 18:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*41 - 120*	*09/10/19 15:12*	*09/13/19 18:37*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*09/10/19 15:12*	*09/13/19 18:37*	*1*
2-Fluorophenol	*63*		*35 - 120*	*09/10/19 15:12*	*09/13/19 18:37*	*1*
Nitrobenzene-d5	*86*		*46 - 120*	*09/10/19 15:12*	*09/13/19 18:37*	*1*
Phenol-d5	*46*		*22 - 120*	*09/10/19 15:12*	*09/13/19 18:37*	*1*

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

Lab Sample ID: MB 480-491245/1-A
Matrix: Water
Analysis Batch: 491948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491245

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	97		60 - 148	09/10/19 15:12	09/13/19 18:37	1

Lab Sample ID: LCS 480-491245/2-A
Matrix: Water
Analysis Batch: 491948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	32.5		ug/L		101	65 - 126
2,4,6-Trichlorophenol	32.0	33.8		ug/L		106	64 - 120
2,4-Dichlorophenol	32.0	32.4		ug/L		101	63 - 120
2,4-Dimethylphenol	32.0	30.6		ug/L		96	47 - 120
2,4-Dinitrophenol	64.0	66.7		ug/L		104	31 - 137
2,4-Dinitrotoluene	32.0	33.1		ug/L		104	69 - 120
2,6-Dinitrotoluene	32.0	32.6		ug/L		102	68 - 120
2-Chloronaphthalene	32.0	29.2		ug/L		91	58 - 120
2-Chlorophenol	32.0	27.8		ug/L		87	48 - 120
2-Methylnaphthalene	32.0	28.8		ug/L		90	59 - 120
2-Methylphenol	32.0	26.3		ug/L		82	39 - 120
2-Nitroaniline	32.0	31.1		ug/L		97	54 - 127
2-Nitrophenol	32.0	30.0		ug/L		94	52 - 125
3,3'-Dichlorobenzidine	64.0	59.0		ug/L		92	49 - 135
3-Nitroaniline	32.0	26.6		ug/L		83	51 - 120
4,6-Dinitro-2-methylphenol	64.0	76.7		ug/L		120	46 - 136
4-Bromophenyl phenyl ether	32.0	31.2		ug/L		97	65 - 120
4-Chloro-3-methylphenol	32.0	31.6		ug/L		99	61 - 123
4-Chloroaniline	32.0	23.2		ug/L		72	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.0		ug/L		100	62 - 120
4-Methylphenol	32.0	27.0		ug/L		84	29 - 131
4-Nitroaniline	32.0	34.0		ug/L		106	65 - 120
4-Nitrophenol	64.0	64.2		ug/L		100	45 - 120
Acenaphthene	32.0	29.9		ug/L		93	60 - 120
Acenaphthylene	32.0	30.5		ug/L		95	63 - 120
Acetophenone	32.0	30.1		ug/L		94	45 - 120
Aniline	32.0	19.4		ug/L		61	12 - 120
Anthracene	32.0	30.8		ug/L		96	67 - 120
Atrazine	64.0	80.9		ug/L		126	71 - 130
Benzaldehyde	64.0	55.6		ug/L		87	10 - 140
Benzo(a)anthracene	32.0	30.2		ug/L		94	70 - 121
Benzo(a)pyrene	32.0	28.3		ug/L		88	60 - 123
Benzo(b)fluoranthene	32.0	31.2		ug/L		98	66 - 126
Benzo(g,h,i)perylene	32.0	32.3		ug/L		101	66 - 150
Benzo(k)fluoranthene	32.0	31.2		ug/L		97	65 - 124
Biphenyl	32.0	30.2		ug/L		94	59 - 120
bis (2-chloroisopropyl) ether	32.0	21.1		ug/L		66	21 - 136
Bis(2-chloroethoxy)methane	32.0	28.4		ug/L		89	50 - 128
Bis(2-chloroethyl)ether	32.0	26.8		ug/L		84	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.5		ug/L		95	63 - 139
Butyl benzyl phthalate	32.0	30.3		ug/L		95	70 - 129

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

Lab Sample ID: LCS 480-491245/2-A
Matrix: Water
Analysis Batch: 491948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caprolactam	64.0	22.2		ug/L		35	22 - 120
Carbazole	32.0	34.1		ug/L		107	66 - 123
Chrysene	32.0	30.5		ug/L		95	69 - 120
Dibenz(a,h)anthracene	32.0	32.4		ug/L		101	65 - 135
Dibenzofuran	32.0	30.7		ug/L		96	66 - 120
Diethyl phthalate	32.0	34.2		ug/L		107	59 - 127
Dimethyl phthalate	32.0	32.6		ug/L		102	68 - 120
Di-n-butyl phthalate	32.0	33.5		ug/L		105	69 - 131
Di-n-octyl phthalate	32.0	31.0		ug/L		97	63 - 140
Fluoranthene	32.0	31.9		ug/L		100	69 - 126
Fluorene	32.0	32.0		ug/L		100	66 - 120
Hexachlorobenzene	32.0	33.3		ug/L		104	61 - 120
Hexachlorobutadiene	32.0	29.8		ug/L		93	35 - 120
Hexachlorocyclopentadiene	32.0	27.9		ug/L		87	31 - 120
Hexachloroethane	32.0	26.5		ug/L		83	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	32.6		ug/L		102	69 - 146
Isophorone	32.0	28.9		ug/L		90	55 - 120
Naphthalene	32.0	29.2		ug/L		91	57 - 120
Nitrobenzene	32.0	29.4		ug/L		92	53 - 123
N-Nitrosodi-n-propylamine	32.0	29.3		ug/L		92	32 - 140
N-Nitrosodiphenylamine	32.0	30.1		ug/L		94	61 - 120
Pentachlorophenol	64.0	58.6		ug/L		92	29 - 136
Phenanthrene	32.0	31.7		ug/L		99	68 - 120
Phenol	32.0	17.7		ug/L		55	17 - 120
Pyrene	32.0	30.9		ug/L		97	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*41 - 120*
2-Fluorobiphenyl	*92*		*48 - 120*
2-Fluorophenol	*67*		*35 - 120*
Nitrobenzene-d5	*96*		*46 - 120*
Phenol-d5	*51*		*22 - 120*
p-Terphenyl-d14	*96*		*60 - 148*

Lab Sample ID: 480-158676-4 MS
Matrix: Ground Water
Analysis Batch: 491948

Client Sample ID: BCC Area C MW-C04 MS_0919
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	34.5		ug/L		108	65 - 126
2,4,6-Trichlorophenol	ND	F1	32.0	39.1	F1	ug/L		122	64 - 120
2,4-Dichlorophenol	5.6		32.0	39.4		ug/L		106	48 - 132
2,4-Dimethylphenol	ND		32.0	31.4		ug/L		98	39 - 130
2,4-Dinitrophenol	ND		64.0	79.1		ug/L		124	21 - 150
2,4-Dinitrotoluene	ND		32.0	35.8		ug/L		112	54 - 138
2,6-Dinitrotoluene	ND		32.0	34.1		ug/L		107	17 - 150
2-Chloronaphthalene	ND		32.0	30.9		ug/L		97	52 - 124
2-Chlorophenol	ND		32.0	29.5		ug/L		92	48 - 120

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

Lab Sample ID: 480-158676-4 MS
Matrix: Ground Water
Analysis Batch: 491948

Client Sample ID: BCC Area C MW-C04 MS_0919
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	ND		32.0	29.8		ug/L		93	34 - 140
2-Methylphenol	ND		32.0	27.6		ug/L		86	46 - 120
2-Nitroaniline	ND		32.0	33.8		ug/L		106	44 - 136
2-Nitrophenol	ND		32.0	31.6		ug/L		99	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	43.3		ug/L		68	10 - 150
3-Nitroaniline	ND		32.0	21.3		ug/L		66	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	87.6		ug/L		137	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	32.1		ug/L		100	63 - 126
4-Chloro-3-methylphenol	ND		32.0	33.9		ug/L		106	64 - 127
4-Chloroaniline	ND		32.0	20.6		ug/L		64	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	33.9		ug/L		106	61 - 120
4-Methylphenol	ND		32.0	27.0		ug/L		84	36 - 120
4-Nitroaniline	ND		32.0	33.5		ug/L		105	32 - 150
4-Nitrophenol	ND		64.0	64.2		ug/L		100	23 - 132
Acenaphthene	ND		32.0	31.5		ug/L		98	48 - 120
Acenaphthylene	ND		32.0	31.9		ug/L		100	63 - 120
Acetophenone	ND		32.0	31.0		ug/L		97	53 - 120
Aniline	0.94	J	32.0	21.4		ug/L		64	32 - 120
Anthracene	ND		32.0	32.2		ug/L		101	65 - 122
Atrazine	ND		64.0	79.3		ug/L		124	50 - 150
Benzaldehyde	ND		64.0	54.3		ug/L		85	10 - 150
Benzo(a)anthracene	ND		32.0	29.5		ug/L		92	43 - 124
Benzo(a)pyrene	ND		32.0	26.6		ug/L		83	23 - 125
Benzo(b)fluoranthene	ND		32.0	29.7		ug/L		93	27 - 127
Benzo(g,h,i)perylene	ND		32.0	30.9		ug/L		97	16 - 147
Benzo(k)fluoranthene	ND		32.0	28.3		ug/L		88	20 - 124
Biphenyl	ND		32.0	31.2		ug/L		98	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	21.4		ug/L		67	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	29.5		ug/L		92	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	29.1		ug/L		91	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	29.6		ug/L		93	16 - 150
Butyl benzyl phthalate	ND		32.0	31.3		ug/L		98	51 - 140
Caprolactam	ND		64.0	24.2		ug/L		38	10 - 120
Carbazole	ND		32.0	39.1		ug/L		122	16 - 148
Chrysene	ND		32.0	29.9		ug/L		94	44 - 122
Dibenz(a,h)anthracene	ND		32.0	30.6		ug/L		96	16 - 139
Dibenzofuran	ND		32.0	32.4		ug/L		101	60 - 120
Diethyl phthalate	ND		32.0	34.0		ug/L		106	53 - 133
Dimethyl phthalate	ND		32.0	35.4		ug/L		111	59 - 123
Di-n-butyl phthalate	ND		32.0	34.1		ug/L		107	65 - 129
Di-n-octyl phthalate	ND		32.0	30.3		ug/L		95	16 - 150
Fluoranthene	ND		32.0	33.9		ug/L		106	63 - 129
Fluorene	ND		32.0	34.0		ug/L		106	62 - 120
Hexachlorobenzene	ND		32.0	35.2		ug/L		110	57 - 121
Hexachlorobutadiene	ND		32.0	28.3		ug/L		88	37 - 120
Hexachlorocyclopentadiene	ND		32.0	30.4		ug/L		95	21 - 120
Hexachloroethane	ND		32.0	27.2		ug/L		85	16 - 130
Indeno(1,2,3-cd)pyrene	ND		32.0	30.4		ug/L		95	16 - 140
Isophorone	ND		32.0	30.6		ug/L		96	48 - 133

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

Lab Sample ID: 480-158676-4 MS
Matrix: Ground Water
Analysis Batch: 491948

Client Sample ID: BCC Area C MW-C04 MS_0919
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		32.0	29.7		ug/L		93	45 - 120
Nitrobenzene	ND		32.0	30.6		ug/L		96	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	31.2		ug/L		97	49 - 120
N-Nitrosodiphenylamine	0.61	J	32.0	34.4		ug/L		105	39 - 138
Pentachlorophenol	ND		64.0	81.8		ug/L		128	23 - 149
Phenanthrene	ND		32.0	36.0		ug/L		113	65 - 122
Phenol	ND		32.0	17.6		ug/L		55	16 - 120
Pyrene	ND		32.0	32.5		ug/L		102	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*125*	*X*	*41 - 120*
2-Fluorobiphenyl	*98*		*48 - 120*
2-Fluorophenol	*67*		*35 - 120*
Nitrobenzene-d5	*90*		*46 - 120*
Phenol-d5	*52*		*22 - 120*
p-Terphenyl-d14	*76*		*60 - 148*

Lab Sample ID: 480-158676-4 MSD
Matrix: Ground Water
Analysis Batch: 491948

Client Sample ID: BCC Area C MW-C04 MSD_0919
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	35.1		ug/L		110	65 - 126	2	18
2,4,6-Trichlorophenol	ND	F1	32.0	35.6		ug/L		111	64 - 120	9	19
2,4-Dichlorophenol	5.6		32.0	38.2		ug/L		102	48 - 132	3	19
2,4-Dimethylphenol	ND		32.0	30.4		ug/L		95	39 - 130	3	42
2,4-Dinitrophenol	ND		64.0	76.5		ug/L		120	21 - 150	3	22
2,4-Dinitrotoluene	ND		32.0	34.1		ug/L		107	54 - 138	5	20
2,6-Dinitrotoluene	ND		32.0	32.2		ug/L		101	17 - 150	6	15
2-Chloronaphthalene	ND		32.0	29.2		ug/L		91	52 - 124	6	21
2-Chlorophenol	ND		32.0	28.7		ug/L		90	48 - 120	3	25
2-Methylnaphthalene	ND		32.0	28.8		ug/L		90	34 - 140	3	21
2-Methylphenol	ND		32.0	26.9		ug/L		84	46 - 120	3	27
2-Nitroaniline	ND		32.0	31.7		ug/L		99	44 - 136	6	15
2-Nitrophenol	ND		32.0	31.2		ug/L		97	38 - 141	1	18
3,3'-Dichlorobenzidine	ND		64.0	43.1		ug/L		67	10 - 150	1	25
3-Nitroaniline	ND		32.0	24.3		ug/L		76	32 - 150	13	19
4,6-Dinitro-2-methylphenol	ND		64.0	82.2		ug/L		128	38 - 150	6	15
4-Bromophenyl phenyl ether	ND		32.0	31.7		ug/L		99	63 - 126	1	15
4-Chloro-3-methylphenol	ND		32.0	32.3		ug/L		101	64 - 127	5	27
4-Chloroaniline	ND		32.0	22.2		ug/L		69	16 - 124	8	22
4-Chlorophenyl phenyl ether	ND		32.0	32.7		ug/L		102	61 - 120	3	16
4-Methylphenol	ND		32.0	27.7		ug/L		86	36 - 120	2	24
4-Nitroaniline	ND		32.0	32.4		ug/L		101	32 - 150	3	24
4-Nitrophenol	ND		64.0	67.9		ug/L		106	23 - 132	6	48
Acenaphthene	ND		32.0	30.2		ug/L		94	48 - 120	4	24
Acenaphthylene	ND		32.0	30.0		ug/L		94	63 - 120	6	18
Acetophenone	ND		32.0	31.0		ug/L		97	53 - 120	0	20

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

Lab Sample ID: 480-158676-4 MSD
Matrix: Ground Water
Analysis Batch: 491948

Client Sample ID: BCC Area C MW-C04 MSD_0919
Prep Type: Total/NA
Prep Batch: 491245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aniline	0.94	J	32.0	22.2		ug/L		66	32 - 120	4	30
Anthracene	ND		32.0	30.0		ug/L		94	65 - 122	7	15
Atrazine	ND		64.0	75.4		ug/L		118	50 - 150	5	20
Benzaldehyde	ND		64.0	56.6		ug/L		88	10 - 150	4	20
Benzo(a)anthracene	ND		32.0	28.5		ug/L		89	43 - 124	3	15
Benzo(a)pyrene	ND		32.0	26.3		ug/L		82	23 - 125	1	15
Benzo(b)fluoranthene	ND		32.0	29.3		ug/L		91	27 - 127	2	15
Benzo(g,h,i)perylene	ND		32.0	30.1		ug/L		94	16 - 147	3	15
Benzo(k)fluoranthene	ND		32.0	28.1		ug/L		88	20 - 124	1	22
Biphenyl	ND		32.0	30.1		ug/L		94	57 - 120	4	20
bis (2-chloroisopropyl) ether	ND		32.0	21.5		ug/L		67	28 - 121	0	24
Bis(2-chloroethoxy)methane	ND		32.0	29.0		ug/L		91	44 - 128	2	17
Bis(2-chloroethyl)ether	ND		32.0	28.0		ug/L		87	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND		32.0	27.7		ug/L		87	16 - 150	7	15
Butyl benzyl phthalate	ND		32.0	30.2		ug/L		94	51 - 140	4	16
Caprolactam	ND		64.0	23.0		ug/L		36	10 - 120	5	20
Carbazole	ND		32.0	35.3		ug/L		110	16 - 148	10	20
Chrysene	ND		32.0	28.6		ug/L		89	44 - 122	5	15
Dibenz(a,h)anthracene	ND		32.0	30.5		ug/L		95	16 - 139	1	15
Dibenzofuran	ND		32.0	31.5		ug/L		99	60 - 120	3	15
Diethyl phthalate	ND		32.0	34.9		ug/L		109	53 - 133	2	15
Dimethyl phthalate	ND		32.0	33.3		ug/L		104	59 - 123	6	15
Di-n-butyl phthalate	ND		32.0	32.3		ug/L		101	65 - 129	5	15
Di-n-octyl phthalate	ND		32.0	28.8		ug/L		90	16 - 150	5	16
Fluoranthene	ND		32.0	31.1		ug/L		97	63 - 129	8	15
Fluorene	ND		32.0	32.5		ug/L		102	62 - 120	5	15
Hexachlorobenzene	ND		32.0	31.9		ug/L		100	57 - 121	10	15
Hexachlorobutadiene	ND		32.0	28.4		ug/L		89	37 - 120	1	44
Hexachlorocyclopentadiene	ND		32.0	28.9		ug/L		90	21 - 120	5	49
Hexachloroethane	ND		32.0	27.5		ug/L		86	16 - 130	1	46
Indeno(1,2,3-cd)pyrene	ND		32.0	30.4		ug/L		95	16 - 140	0	15
Isophorone	ND		32.0	29.9		ug/L		93	48 - 133	2	17
Naphthalene	ND		32.0	29.2		ug/L		91	45 - 120	2	29
Nitrobenzene	ND		32.0	29.6		ug/L		92	45 - 123	3	24
N-Nitrosodi-n-propylamine	ND		32.0	30.1		ug/L		94	49 - 120	4	31
N-Nitrosodiphenylamine	0.61	J	32.0	31.9		ug/L		98	39 - 138	7	15
Pentachlorophenol	ND		64.0	73.3		ug/L		114	23 - 149	11	37
Phenanthrene	ND		32.0	32.8		ug/L		102	65 - 122	9	15
Phenol	ND		32.0	16.7		ug/L		52	16 - 120	5	34
Pyrene	ND		32.0	31.2		ug/L		97	58 - 128	4	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*118*		*41 - 120*
2-Fluorobiphenyl	*91*		*48 - 120*
2-Fluorophenol	*65*		*35 - 120*
Nitrobenzene-d5	*94*		*46 - 120*
Phenol-d5	*49*		*22 - 120*
p-Terphenyl-d14	*74*		*60 - 148*

QC Sample Results

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-490691/1-A
Matrix: Water
Analysis Batch: 491322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		09/09/19 09:35	09/10/19 18:53	1
Antimony	ND		0.020	0.0068	mg/L		09/09/19 09:35	09/10/19 18:53	1
Arsenic	ND		0.015	0.0056	mg/L		09/09/19 09:35	09/10/19 18:53	1
Barium	ND		0.0020	0.00070	mg/L		09/09/19 09:35	09/10/19 18:53	1
Beryllium	ND		0.0020	0.00030	mg/L		09/09/19 09:35	09/10/19 18:53	1
Cadmium	ND		0.0020	0.00050	mg/L		09/09/19 09:35	09/10/19 18:53	1
Calcium	ND		0.50	0.10	mg/L		09/09/19 09:35	09/10/19 18:53	1
Chromium	ND		0.0040	0.0010	mg/L		09/09/19 09:35	09/10/19 18:53	1
Cobalt	ND		0.0040	0.00063	mg/L		09/09/19 09:35	09/10/19 18:53	1
Copper	ND		0.010	0.0016	mg/L		09/09/19 09:35	09/10/19 18:53	1
Lead	ND		0.010	0.0030	mg/L		09/09/19 09:35	09/10/19 18:53	1
Magnesium	ND		0.20	0.043	mg/L		09/09/19 09:35	09/10/19 18:53	1
Manganese	ND		0.0030	0.00040	mg/L		09/09/19 09:35	09/10/19 18:53	1
Nickel	ND		0.010	0.0013	mg/L		09/09/19 09:35	09/10/19 18:53	1
Selenium	ND		0.025	0.0087	mg/L		09/09/19 09:35	09/10/19 18:53	1
Silver	ND		0.0060	0.0017	mg/L		09/09/19 09:35	09/10/19 18:53	1
Thallium	ND		0.020	0.010	mg/L		09/09/19 09:35	09/10/19 18:53	1
Vanadium	ND		0.0050	0.0015	mg/L		09/09/19 09:35	09/10/19 18:53	1
Zinc	ND		0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 18:53	1

Lab Sample ID: MB 480-490691/1-A
Matrix: Water
Analysis Batch: 492009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.0236	J	0.050	0.019	mg/L		09/09/19 09:35	09/13/19 11:57	1
Potassium	ND		0.50	0.10	mg/L		09/09/19 09:35	09/13/19 11:57	1
Sodium	ND		1.0	0.32	mg/L		09/09/19 09:35	09/13/19 11:57	1

Lab Sample ID: LCS 480-490691/2-A
Matrix: Water
Analysis Batch: 491322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.21		mg/L		92	80 - 120
Antimony	0.200	0.211		mg/L		106	80 - 120
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.200	0.200		mg/L		100	80 - 120
Beryllium	0.200	0.196		mg/L		98	80 - 120
Cadmium	0.200	0.195		mg/L		98	80 - 120
Calcium	10.0	9.62		mg/L		96	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.200	0.181		mg/L		91	80 - 120
Copper	0.200	0.190		mg/L		95	80 - 120
Lead	0.200	0.186		mg/L		93	80 - 120
Magnesium	10.0	9.60		mg/L		96	80 - 120
Manganese	0.200	0.195		mg/L		97	80 - 120
Nickel	0.200	0.189		mg/L		95	80 - 120
Potassium	10.0	9.66		mg/L		97	80 - 120

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

Lab Sample ID: LCS 480-490691/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 491322 — **Prep Batch: 490691**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.200	0.191		mg/L		96	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120
Sodium	10.0	9.74		mg/L		97	80 - 120
Thallium	0.200	0.198		mg/L		99	80 - 120
Vanadium	0.200	0.196		mg/L		98	80 - 120
Zinc	0.200	0.202		mg/L		101	80 - 120

Lab Sample ID: LCS 480-490691/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 492009 — **Prep Batch: 490691**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.87		mg/L		99	80 - 120

Lab Sample ID: 480-158676-4 MS — **Client Sample ID: BCC Area C MW-C04 MS_0919**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 491322 — **Prep Batch: 490691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.73		mg/L		97	75 - 125
Antimony	ND		0.200	0.224		mg/L		112	75 - 125
Arsenic	ND		0.200	0.208		mg/L		104	75 - 125
Barium	0.37		0.200	0.569		mg/L		100	75 - 125
Beryllium	ND		0.200	0.204		mg/L		102	75 - 125
Cadmium	ND		0.200	0.207		mg/L		103	75 - 125
Calcium	210		10.0	219.1	4	mg/L		93	75 - 125
Chromium	ND		0.200	0.203		mg/L		101	75 - 125
Cobalt	ND		0.200	0.193		mg/L		96	75 - 125
Copper	0.0050	J	0.200	0.200		mg/L		97	75 - 125
Lead	0.0056	J	0.200	0.200		mg/L		97	75 - 125
Magnesium	25.8		10.0	35.08		mg/L		93	75 - 125
Manganese	1.0		0.200	1.20	4	mg/L		94	75 - 125
Nickel	ND		0.200	0.199		mg/L		100	75 - 125
Potassium	9.6		10.0	20.45		mg/L		108	75 - 125
Selenium	ND		0.200	0.208		mg/L		104	75 - 125
Silver	ND		0.0500	0.0534		mg/L		107	75 - 125
Sodium	47.5		10.0	52.95	4	mg/L		55	75 - 125
Thallium	ND		0.200	0.204		mg/L		102	75 - 125
Vanadium	ND		0.200	0.207		mg/L		104	75 - 125
Zinc	0.0080	J	0.200	0.208		mg/L		100	75 - 125

Lab Sample ID: 480-158676-4 MS — **Client Sample ID: BCC Area C MW-C04 MS_0919**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 492009 — **Prep Batch: 490691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	4.9	B	10.0	14.86		mg/L		99	75 - 125

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

Lab Sample ID: 480-158676-4 MSD — **Client Sample ID: BCC Area C MW-C04 MSD_0919**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 491322 — **Prep Batch: 490691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.35		mg/L		94	75 - 125	4	20
Antimony	ND		0.200	0.215		mg/L		108	75 - 125	4	20
Arsenic	ND		0.200	0.199		mg/L		99	75 - 125	4	20
Barium	0.37		0.200	0.550		mg/L		90	75 - 125	3	20
Beryllium	ND		0.200	0.196		mg/L		98	75 - 125	4	20
Cadmium	ND		0.200	0.199		mg/L		99	75 - 125	4	20
Calcium	210		10.0	210.9	4	mg/L		11	75 - 125	4	20
Chromium	ND		0.200	0.196		mg/L		98	75 - 125	3	20
Cobalt	ND		0.200	0.184		mg/L		92	75 - 125	4	20
Copper	0.0050	J	0.200	0.192		mg/L		94	75 - 125	4	20
Lead	0.0056	J	0.200	0.193		mg/L		94	75 - 125	4	20
Magnesium	25.8		10.0	33.90		mg/L		81	75 - 125	3	20
Manganese	1.0		0.200	1.15	4	mg/L		72	75 - 125	4	20
Nickel	ND		0.200	0.192		mg/L		96	75 - 125	4	20
Potassium	9.6		10.0	19.43		mg/L		98	75 - 125	5	20
Selenium	ND		0.200	0.194		mg/L		97	75 - 125	7	20
Silver	ND		0.0500	0.0510		mg/L		102	75 - 125	5	20
Sodium	47.5		10.0	53.07	4	mg/L		56	75 - 125	0	20
Thallium	ND		0.200	0.197		mg/L		98	75 - 125	3	20
Vanadium	ND		0.200	0.199		mg/L		99	75 - 125	4	20
Zinc	0.0080	J	0.200	0.201		mg/L		96	75 - 125	4	20

Lab Sample ID: 480-158676-4 MSD — **Client Sample ID: BCC Area C MW-C04 MSD_0919**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 492009 — **Prep Batch: 490691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	4.9	B	10.0	14.34		mg/L		94	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-491925/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 492040 — **Prep Batch: 491925**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:13	1

Lab Sample ID: LCS 480-491925/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 492040 — **Prep Batch: 491925**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00682		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-158676-4 MS
Matrix: Ground Water
Analysis Batch: 492040

Client Sample ID: BCC Area C MW-C04 MS_0919
Prep Type: Total/NA
Prep Batch: 491925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00705		mg/L		106	80 - 120

Lab Sample ID: 480-158676-4 MSD
Matrix: Ground Water
Analysis Batch: 492040

Client Sample ID: BCC Area C MW-C04 MSD_0919
Prep Type: Total/NA
Prep Batch: 491925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00697		mg/L		104	80 - 120	1	20

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

GC/MS VOA

Analysis Batch: 491772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	8260C	
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	8260C	
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	8260C	
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	8260C	
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	8260C	
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	8260C	
480-158676-9	TRIP BLANK	Total/NA	Water	8260C	
MB 480-491772/7	Method Blank	Total/NA	Water	8260C	
LCS 480-491772/5	Lab Control Sample	Total/NA	Water	8260C	
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	8260C	
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	8260C	

Analysis Batch: 491987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	8260C	
MB 480-491987/7	Method Blank	Total/NA	Water	8260C	
LCS 480-491987/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 491245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	3510C	
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	3510C	
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	3510C	
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	3510C	
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	3510C	
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	3510C	
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	3510C	
MB 480-491245/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-491245/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	3510C	
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	3510C	

Analysis Batch: 491948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	8270D	491245
MB 480-491245/1-A	Method Blank	Total/NA	Water	8270D	491245
LCS 480-491245/2-A	Lab Control Sample	Total/NA	Water	8270D	491245
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	8270D	491245
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	8270D	491245

Analysis Batch: 491952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	8270D	491245
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	8270D	491245
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	8270D	491245
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	8270D	491245
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	8270D	491245
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	8270D	491245

QC Association Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Metals

Prep Batch: 490691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	3005A	
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	3005A	
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	3005A	
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	3005A	
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	3005A	
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	3005A	
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	3005A	
MB 480-490691/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	3005A	
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	3005A	

Analysis Batch: 491322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	6010C	490691
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	6010C	490691
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	6010C	490691
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	6010C	490691
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	6010C	490691
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	6010C	490691
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	6010C	490691
MB 480-490691/1-A	Method Blank	Total/NA	Water	6010C	490691
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	6010C	490691
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	6010C	490691
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	6010C	490691

Prep Batch: 491925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	7470A	
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	7470A	
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	7470A	
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	7470A	
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	7470A	
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	7470A	
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	7470A	
MB 480-491925/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-491925/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	7470A	
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	7470A	

Analysis Batch: 492009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	6010C	490691
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	6010C	490691
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	6010C	490691
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	6010C	490691
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	6010C	490691
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	6010C	490691
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	6010C	490691
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	6010C	490691
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	6010C	490691

Metals (Continued)

Analysis Batch: 492009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-490691/1-A	Method Blank	Total/NA	Water	6010C	490691
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	6010C	490691
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	6010C	490691
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	6010C	490691

Analysis Batch: 492040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158676-1	BCC Area C MW-C01_0919	Total/NA	Ground Water	7470A	491925
480-158676-2	BCC Area C RFI-31_0919	Total/NA	Ground Water	7470A	491925
480-158676-4	BCC Area C MW-C04_0919	Total/NA	Ground Water	7470A	491925
480-158676-5	BCC Area C RFI-20_0919	Total/NA	Ground Water	7470A	491925
480-158676-6	BCC Area C PS-05A_0919	Total/NA	Ground Water	7470A	491925
480-158676-7	BCC Area C PS-06_0919	Total/NA	Ground Water	7470A	491925
480-158676-8	BCC Area C MW-C04 D_0919	Total/NA	Ground Water	7470A	491925
MB 480-491925/1-A	Method Blank	Total/NA	Water	7470A	491925
LCS 480-491925/2-A	Lab Control Sample	Total/NA	Water	7470A	491925
480-158676-4 MS	BCC Area C MW-C04 MS_0919	Total/NA	Ground Water	7470A	491925
480-158676-4 MSD	BCC Area C MW-C04 MSD_0919	Total/NA	Ground Water	7470A	491925

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C01_0919

Lab Sample ID: 480-158676-1

Date Collected: 09/05/19 08:10
Date Received: 09/05/19 15:50

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	491772	09/13/19 03:08	OMI	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		5	491952	09/14/19 04:35	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 12:31	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		20	492009	09/13/19 12:35	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 19:26	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:26	BMB	TAL BUF

Client Sample ID: BCC Area C RFI-31_0919

Lab Sample ID: 480-158676-2

Date Collected: 09/05/19 15:10
Date Received: 09/05/19 15:50

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	491987	09/13/19 22:58	KMN	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		1	491952	09/14/19 05:03	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 12:39	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		20	492009	09/13/19 12:43	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 19:30	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:27	BMB	TAL BUF

Client Sample ID: BCC Area C MW-C04_0919

Lab Sample ID: 480-158676-4

Date Collected: 09/04/19 13:10
Date Received: 09/05/19 15:50

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	491772	09/13/19 03:56	OMI	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		1	491948	09/13/19 20:32	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 12:47	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 19:34	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:28	BMB	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C RFI-20_0919

Lab Sample ID: 480-158676-5

Date Collected: 09/05/19 09:55
Date Received: 09/05/19 15:50

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	491772	09/13/19 04:20	OMI	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		1	491952	09/14/19 05:32	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 13:17	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 20:03	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:34	BMB	TAL BUF

Client Sample ID: BCC Area C PS-05A_0919

Lab Sample ID: 480-158676-6

Date Collected: 09/05/19 11:00
Date Received: 09/05/19 15:50

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	491772	09/13/19 04:44	OMI	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		1	491952	09/14/19 06:00	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 13:21	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 20:07	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:37	BMB	TAL BUF

Client Sample ID: BCC Area C PS-06_0919

Lab Sample ID: 480-158676-7

Date Collected: 09/05/19 11:50
Date Received: 09/05/19 15:50

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	491772	09/13/19 05:08	OMI	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		1	491952	09/14/19 06:28	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 13:25	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 20:11	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:39	BMB	TAL BUF

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Client Sample ID: BCC Area C MW-C04 D_0919

Lab Sample ID: 480-158676-8

Date Collected: 09/05/19 13:20
Matrix: Ground Water
Date Received: 09/05/19 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	491772	09/13/19 05:32	OMI	TAL BUF
Total/NA	Prep	3510C			491245	09/10/19 15:12	AAP	TAL BUF
Total/NA	Analysis	8270D		1	491952	09/14/19 06:56	RJS	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	492009	09/13/19 13:29	AMH	TAL BUF
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 20:14	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:40	BMB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-158676-9

Date Collected: 09/05/19 00:00
Matrix: Water
Date Received: 09/05/19 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491772	09/13/19 05:56	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: Buffalo Color Area C Wells

Job ID: 480-158676-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158676-1	BCC Area C MW-C01_0919	Ground Water	09/05/19 08:10	09/05/19 15:50	
480-158676-2	BCC Area C RFI-31_0919	Ground Water	09/05/19 15:10	09/05/19 15:50	
480-158676-4	BCC Area C MW-C04_0919	Ground Water	09/04/19 13:10	09/05/19 15:50	
480-158676-5	BCC Area C RFI-20_0919	Ground Water	09/05/19 09:55	09/05/19 15:50	
480-158676-6	BCC Area C PS-05A_0919	Ground Water	09/05/19 11:00	09/05/19 15:50	
480-158676-7	BCC Area C PS-06_0919	Ground Water	09/05/19 11:50	09/05/19 15:50	
480-158676-8	BCC Area C MW-C04 D_0919	Ground Water	09/05/19 13:20	09/05/19 15:50	
480-158676-9	TRIP BLANK	Water	09/05/19 00:00	09/05/19 15:50	

10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Schove	Site Contact: Tom Wagner	Date: 9-5-19	COC No: 480-127723-6265.1
Ontario Specialty Contracting Inc	Tel/Fax: 716-912-9926	Lab Contact: John Schove	Carrier: OSC	1 of 1 COCs
333 Ganson Street	Analysis Turnaround Time			Job No. 16011
Buffalo, NY 14203	Calendar (C) or Work Days (W) _____			
(716) 856-3333 Phone	TAT if different from Below _____			
(716) 842-1785 FAX	[x] 2 weeks			
Project Name: Buffalo Color GWTF Area C Wells	[ ] 1 week			
Site: Honeywell Buffalo Color - NYC915230 EIM SITE ID - 37745	[ ] 2 days			
PO# 61828	[ ] 1 day			

480-158676 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8260B - TLC 4.2 list (TLC VOC)	6010B, 7470A (TAL Metals	8270C - (MOD) TLC SVOA - 4.2 list +analine	Sample Specific Notes:
BCC_Area C_MW-C01_0919	9/5-19	0810	G	W	6	N	3	1	2	
BCC_Area C_RFI-31_0919	9/4-19	1510	G	W	6	N	3	1	2	
BCC_Area C_PS-04_0919			G	W	6	N	3	1	2	No Sample - Damaged
BCC_Area C_MW-C04_0919	9/4-19	1310	G	W	6	N	3	1	2	
BCC_Area C_RFI-20_0919	9/5-19	0955	G	W	6	N	3	1	2	
BCC_Area C_PS-05A_0919	9/5-19	1100	G	W	6	N	3	1	2	
BCC_Area C_PS-06_0919	9/5-19	1150	G	W	6	N	3	1	2	
BCC_Area C_MW-C04 D_0919	9/4-19	1320	G	W	6	N	3	1	2	
BCC_Area C_MW-C04 MS_0919	9/4-19	1335	G	W	6	N	3	1	2	
BCC_Area C_MW-C04 MSD_0919	9/4-19	1345	G	W	6	N	3	1	2	
Trip Blank	N/A	N/A	N/A	W	2	N	2			
							Container Volume (mL)	40	250	250
							Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____	2	4	1

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [X]

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

Special Instructions/QC Requirements & Comments:

#1 4.9°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Tom Wagner	OSC	9-5-19		TAB	9/5/19 1550
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-158676-1

Login Number: 158676

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OSC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix B – Sample Collection Logs

LOW FLOW SAMPLE LOG

Sample Event Year	Sample Event Quarter	Area	Well ID	Sample Date	Start Time	End Time	Sampler	Sample Time	Well Casing Secure	Comments
2018	3Q	AREA.C	MW-C04	8/21/2018	11:20	13:05	Tom Wagner (TW)	12:10	Yes	D, MS, MSD
2018	3Q	AREA.C	PS-04A	8/21/2018	13:15	15:15	Tom Wagner (TW)		Yes	NO Sample, DRY
2018	3Q	AREA.C	MW-C01	8/21/2018	13:45	15:00	Tom Wagner (TW)	14:40	Yes	Cloudy
2018	3Q	AREA.C	RFI-31	8/22/2018	7:00	8:10	Tom Wagner (TW)	8:00	Yes	
2018	3Q	AREA.C	RFI-20	8/22/2018	8:20	9:10	Tom Wagner (TW)	8:50	Yes	
2018	3Q	AREA.C	PS-05A	8/22/2018	9:23	10:00	Tom Wagner (TW)	9:45	Yes	
2018	3Q	AREA.C	PS-06	8/22/2018	10:27	11:00	Tom Wagner (TW)	10:50	Yes	
2018	4Q	AREA.C	MW-C04	11/13/2018	8:10	9:10	Tom Wagner (TW)	9:00	Yes	
2018	4Q	AREA.C	PS-04	11/13/2018	9:20	9:55	Tom Wagner (TW)	9:40	Yes	
2018	4Q	AREA.C	RFI-20	11/13/2018	9:50	11:15	Tom Wagner (TW)	10:20	Yes	D, MS, MSD
2018	4Q	AREA.C	PS-05A	11/13/2018	11:45	12:35	Tom Wagner (TW)	12:25	Yes	Cloudy, Clayish color
2018	4Q	AREA.C	PS-06	11/13/2018	12:50	13:25	Tom Wagner (TW)	13:15	Yes	
2018	4Q	AREA.C	RFI-31	11/13/2018	13:35	14:40	Tom Wagner (TW)	14:30	Yes	
2018	4Q	AREA.C	MW-C01	11/13/2018	14:30	15:25	Tom Wagner (TW)	15:15	Yes	
2019	1Q	AREA.C	PS-06	3/19/2019	14:30	15:10	Tom Wagner (TW)	15:00	Yes	
2019	1Q	AREA.C	PS-05A	3/20/2019	8:10	8:35	Tom Wagner (TW)	8:30	Yes	
2019	1Q	AREA.C	MW-C01	3/20/2019	8:50	10:50	Tom Wagner (TW)	9:40	Yes	D-MS-MSD
2019	1Q	AREA.C	PS-04A	3/20/2019	10:40	11:10	Tom Wagner (TW)	11:00	Yes	
2019	1Q	AREA.C	MW-C04	3/20/2019	10:40	11:45	Tom Wagner (TW)	11:30	Yes	Cloudy
2019	1Q	AREA.C	RFI-31	3/20/2019	11:55	13:00	Tom Wagner (TW)	12:50	Yes	
2019	1Q	AREA.C	RFI-20	3/20/2019	13:15	14:20	Tom Wagner (TW)	14:10	Yes	Cloudy
2019	2Q	AREA.C	MW-C01	5/22/2019	8:15	9:50	Tom Wagner (TW)	9:20	Yes	Cloudy
2019	2Q	AREA.C	PS-04A	5/22/2019	10:10	10:35	Tom Wagner (TW)	10:25	Yes	
2019	2Q	AREA.C	MW-C04	5/22/2019	10:40	11:40	Tom Wagner (TW)	11:30	Yes	
2019	2Q	AREA.C	PS-06	5/22/2019	11:50	13:20	Tom Wagner (TW)	12;20	Yes	D-MS-MSD
2019	2Q	AREA.C	RFI-20	5/22/2019	13:35	14:40	Tom Wagner (TW)	14:25	Yes	
2019	2Q	AREA.C	PS-05A	5/23/2019	8:10	8:50	Tom Wagner (TW)	8:40	Yes	
2019	2Q	AREA.C	RFI-31	5/23/2019	9:05	10:15	Tom Wagner (TW)	10"00	Yes	
2019	3Q	AREA.C	MW-CO4	9/4/2019	12:15	14:05	Tom Wagner (TW)	13:10	Yes	D-MS-MSD
2019	3Q	AREA.C	RFI-31	9/4/2019	14:15	15:25	Tom Wagner (TW)	15:10	Yes	
2019	3Q	AREA.C	MW-CO1	9/5/2019	7:00	8:20	Tom Wagner (TW)	8:10	Yes	
2019	3Q	AREA.C	PS-04A				Tom Wagner (TW)			Well Damaged, no sample
2019	3Q	AREA.C	RFI-20	9/5/2019	9:15	10:10	Tom Wagner (TW)	9:55	Yes	
2019	3Q	AREA.C	PS-05A	9/5/2019	10:35	11:10	Tom Wagner (TW)	11:00	Yes	
2019	3Q	AREA.C	PS-06	9/5/2019	11;25	12:05	Tom Wagner (TW)	11:50	Yes	
2019	4Q	AREA.C	MW-C01	11/20/2019	14:30	15:25	Tom Wagner (TW)	15:10	Yes	
2019	4Q	AREA.C	MW-C04	11/20/2019	12:25	13:20	Tom Wagner (TW)	13:10	Yes	
2019	4Q	AREA.C	PS-04				Tom Wagner (TW)			DAMAGED
2019	4Q	AREA.C	PS-05A	11/20/2019	11:35	12:20	Tom Wagner (TW)	12:10	Yes	
2019	4Q	AREA.C	PS-06	11/20/2019	8:30	9:20	Tom Wagner (TW)	9:05	Yes	
2019	4Q	AREA.C	RFI-20	11/20/2019	9:30	11:10	Tom Wagner (TW)	10:15	Yes	D-MS-MSD
2019	4Q	AREA.C	RFI-31	11/20/2019	13:25	14:20	Tom Wagner (TW)	14:10	Yes	

MEASURMENTS				STANDARD SAMPLE CONTAINERS COLLECTED				QC/QA DUPLICATE CONTAINERS COLLECTED				QC/
Water Level Measurement Date	Static Depth To Water (ft)	Depth To NAPL Layer (ft)	Stickup To Casing Height Differential (in)	40ml VOC	1L SVOC	250mL Metals	250mL Metals (Filtered)	40ml VOC Duplicate	1L SVOC Duplicate	250mL Metals Duplicate	250mL Metals Duplicate (Filtered)	40ml VOC Matrix Spike
8/13/2018	6.30	ND	1.58	3	2	1		3	2	1		3
8/13/2018	8.75	ND	3.38									
8/13/2018	6.60	ND	0.75	3	2	1	1					
8/13/2018	5.28	ND	4.78	3	2	1						
8/13/2018	8.10	ND	2.38	3	2	1						
8/13/2018	7.70	ND	1.78	3	2	1						
8/13/2018	6.52	ND	3.38	3	2	1						
10/30/2018	6.02	ND	2.25	3	2	1						
10/30/2018	7.98	ND	3.50	3	2	1						
10/30/2018	5.25	ND	2.58	3	2	1		3	2	1		3
10/30/2018	4.97	ND	1.78	3	2	1						
10/30/2018	5.34	ND	3.18	3	2	1						
10/30/2018	5.28	ND	4.75	3	2	1						
10/30/2018	5.80	ND	0.75	3	2	1						
2/20/2019	5.00	ND	3.38	3	2	1						
2/20/2019	5.51	ND	1.78	3	2	1						
2/20/2019	6.82	ND	0.75	3	2	1		3	2	1		3
2/20/2019	7.15	ND	3.50	3	2	1						
2/20/2019	5.69	ND	2.18	3	2	1						
2/20/2019	4.73	ND	4.25	3	2	1						
2/20/2019	5.12	ND	2.50									
5/9/2019	6.31	ND	0.75	3	2	1	1					
5/9/2019	7.15	ND	3.50	3	2	1						
5/9/2019	5.70	ND	1.75	3	2	1						
5/9/2019	5.10	ND	3.25	3	2	1		3	2	1		3
5/9/2019	5.50	ND	2.38	3	2	1						
5/9/2019	5.32	ND	1.75	3	2	1						
5/9/2019	5.31	ND	4.21	3	2	1						
8/20/2019	6.15	ND	1.58	3	2	1		3	2	1		3
8/20/2019	2.43	ND	4.25	3	2	1						
8/20/2019	7.01	ND	0.75	3	2	1						
8/20/2019		ND										
8/20/2019	7.05	ND	2.38	3	2	1						
8/20/2019	7.68	ND	1.75	3	2	1						
8/20/2019	6.77	ND	3.25	3	2	1						
11/6/2019	7.40	ND	0.75 above	3	2	1						
11/6/2019	5.60	ND	2.18	3	2	1						
11/6/2019												
11/6/2019	4.35	ND	1.78	3	2	1						
11/6/2019	4.48	ND	3.25	3	2	1						
11/6/2019	4.90	ND	2.50	3	2	1		3	2	1		3
11/6/2019	5.14	ND	4.25	3	2	1						

QA MATRIX SPIKE (MS) CONTAINERS COLLECTED			QC/QA MATRIX SPIKE DUPLICATE (MSD) CONTAINERS COLLECTED			
1L SVOC Matrix Spike	250mL Metals Matrix Spike	250mL Metals Matrix Spike (Filtered)	40ml VOC Matrix Spike Duplicate	1L SVOC Matrix Spike Duplicate	250mL Metals Matrix Spike Duplicate	250mL Metals Matrix Spike Duplicate (Filtered)
2	1		3	2	1	
2	1		3	2	1	
2	1		3	2	1	
2	1		3	2	1	
2	1		3	2	1	
2	1		3	2	1	

Appendix C – Supplemental Corrective Measures Work Plan

INVENTUM ENGINEERING

July 3, 2020

Megan Kucka
Environmental Program Specialist 1
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2915

RE: Supplemental Corrective Measures
Buffalo Color Area C
Buffalo, New York

Dear Ms. Kucka:

Inventum Engineering P.C. (Inventum) on behalf of South Buffalo Development Corporation, LLC (SBD) the current owner of portions of the former Buffalo Color Corporation (BCC) property has prepared this supplemental corrective measures plan for Monitoring Wells in the northern portion of Area C. The groundwater at the southern portion of the site achieved the Groundwater Quality Standards and the water quality in the northern portion of Area C is very close. ORC socks will be placed in RFI-31A, PS-05A, RFI-20A, and MW-C04 as a polishing step.

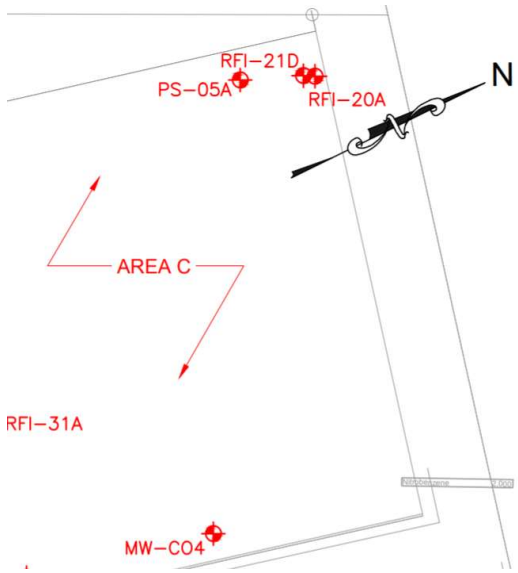


Figure 1

ORC Application Locations

The acceleration of the ongoing remediation of the groundwater at this location will be accomplished by completing the following activities:

1. Placing ORC socks in RFI-31A, PS-05A, RFI-20A, and MW-C04;
2. Suspending groundwater monitoring for 6-months to allow the ORC socks ORC to stimulate bioremediation;
3. Removing the ORC socks after 5 months (the design life of the socks is 6- to 12-months, they will not be reused, used ORC solids will be properly disposed offsite); and
4. Resuming groundwater monitoring no sooner than 30 days after the ORC socks have been removed. The following field parameters will be collected for the four quarters following the removal of the ORC Socks; dissolved oxygen, oxygen reduction potential and pH.

The supplemental remedial action will be initiated within 10 days of approval of this work plan. The schedule will include:

- Procure ORC - 10 Days
- Setting ORC Socks - 1 Day
- Initial supplemental treatment period - 5 Months
- Pull ORC Socks - 1 Days
- Resume sampling - After 30 Days

Total time frame estimated to be 7 months to reinitiating sampling. Development of a strong bioremediation environment in the vicinity of the treated wells could take as much as 12 months.

Please let me know if you have any questions or comments (john.black@inventumeng.com or 571.217.6761).

Respectfully submitted,

John P. Black, P.E.
Partner

Cc: Jon Williams
John Yensan

Appendix D - Permits

BUILDING PERMIT

Department of Permit & Inspection Services

65 Niagara Sq Rm. 301
Buffalo, NY 14202

Byron W. Brown, Mayor

Department of Permit & Inspection Services

. . . . Building a Better Buffalo

Application Type: General Construction Permit

You must contact the Inspector at (716)851-4905 or at the number listed below prior to starting any work.

Application/Permit No.: GC17-9427758

Location: 229 ELK

Applicant: ONTARIO SPECIALTY CONTRACTING
333 GANSON ST
BUFFALO, NY 14203-

SBL No.: 1221200001036000

Land Use: 710

Census Track: 163.00

Inspector: DAVID ZAFUTO (716)851-4905

Issue Date: 12/12/2019

Processed By: FRANK DIGENNARO

Expire Date: 06/12/2020

Fees: $6,203.00

License No.:

License Type: GENERAL CONTRACTOR

DBA:

Value: $7,000,000.00

Plans: Yes

Description of Work: ***PLANS/CITY WIDE SITE PLAN 11.3.7 APPROVAL/PLANNED UNIT DEVELOPMENT *** CONVERT A 2 STORY MASONRY MANUFACTURING BUILDING TO MIXED USE (COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL) IN A D-IH ZONING DISTRICT WITH ACCESSORY PARKING. ***PHASE 1 PARKING LOT FILED 4/9/18 ***

YOU MUST CONTACT YOUR INSPECTOR PRIOR TO STARTING ANY WORK

RECEIVED/PAID
DEC 12 2019
COB TREASURY

James Comerford Jr.

Commissioner, Permit & Inspection Services

Thank you for investing in the City of Buffalo

AND AS SHOWN ON APPLICATION NUMBERED ABOVE, WHICH APPLICATION IS MADE PART OF THIS PERMIT.
*** ALL GENERAL CONTRACTORS AND SUB-CONTRACTORS MUST CARRY A CITY LICENSE ***
ALL WORK PERFORMED AND ANY ASSOCIATED PLANS SUBMITTED FOR THE ISSUANCE OF THIS PERMIT, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
THIS PERMIT IS VOID IF FOUND TO BE ISSUED IN VIOLATION OF ANY LAW OR ORDINANCE AND CONDITIONS STATED ABOVE.

THIS PERMIT MUST BE DISPLAYED WHERE IT IS VISIBLE FROM THE STREET

Signature of Contact/Contractor _____ Date: 12/12/2019

Apply for your next Building Permit online at http://www.buffalony.gov

BUFFALO
SEWER AUTHORITY

ADMINISTRATIVE OFFICES
1038 CITY HALL
65 NIAGARA SQUARE
BUFFALO, NY 14202-3378
PHONE: (716) 851-4664
FAX: (716) 856-5810

WASTEWATER TREATMENT PLANT
FOOT OF WEST FERRY
90 WEST FERRY STREET
BUFFALO, NY 14213-1799
PHONE: (716) 851-4664
FAX: (716) 883-3789

April 22, 2020

Mr. John Yensan
President
OSC, Inc.
333 Ganson St.
Buffalo, New York 14203

RE: **B.P.D.E.S. Permit #20-04-TP262**

Dear Mr. Yensan:

Enclosed is your new BPDES Permit #20-04-TP262. This permit is issued by the Buffalo Sewer Authority.

This original permit must be maintained at your facility and be made available for inspection at all times. It is your responsibility to assure continual compliance with the terms and conditions of this permit.

If you have any further questions, please call Mike Szilagyi at 716-851-4664, ext. 5253.

Very truly yours,
BUFFALO SEWER AUTHORITY

Leslie Sedita

Leslie Sedita
Industrial Waste Administrator

cc: D. Rossney
M.Szilagyi

Permit No.: 20-04-TP262

EPA CATEGORY 40 CFR 403
Expiration Date: April 18, 2021
Date Paid: April 3, 2020

BUFFALO SEWER AUTHORITY

TEMPORARY DISCHARGE PERMIT

Permittee: Ontario Specialty Contracting, Inc.

Location Address: 333 Ganson Street, Buffalo, New York 14203

The above named Permittee is hereby approved to discharge **treated groundwater** to the BSA Wastewater Treatment Plant only, from:

Area C
229 Elk Street, Buffalo, New York 14210

to the Buffalo Sewer Authority facilities in accordance with the Buffalo Sewer Authority Regulations, Article VI, Section 14, and subject to the following conditions:

ARTICLE 1 CONDITIONS OF ACCEPTANCE

The discharge of the approved waste by the Permittee shall be subject to the following conditions:

a. Times, Location & Rate

The following location is designated for discharge during the hours listed and subject to the limit for rate of discharge specified:

Location: **229 Elk Street, Buffalo, New York 14210**

Time Discharge is Permitted: **7:30am – 4pm, Monday - Friday**

Limit on Rate of Discharge: **60 gallons per minute,** Buffalo Sewer Authority Wastewater Treatment Plant only, **dry weather only**

b. Operations

The Permittee shall maintain cleanliness, minimize odors, ensure necessary sediment control measures are in place and maintained and protect the Buffalo Sewer Authority facilities during the permittee's operations. The Permittee shall not permit any condition to arise which may pose a threat to public health or safety.

c. Samples and Analyses

The Buffalo Sewer Authority may from time to time, require the Permittee to sample and analyze its waste discharges. Such sampling and analyses shall be performed and results submitted by a New York State Dept. of Health certified laboratory. The analyses required shall be as specified by the Buffalo Sewer Authority, which also reserves the right, at its convenience, to sample wastes discharged by the Permittee.

d. Refusal to Discharge

The Buffalo Sewer Authority may refuse the Permittee permission to discharge wastes at any time and for any reason whatsoever, for the protection of sewer facilities against damage or flooding; to assure the proper operation and maintenance of said facilities; or to protect public health, safety or welfare.

e. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

ARTICLE 2 REGULATIONS

The Permittee must conform to all Buffalo Sewer Authority regulations and appropriate Federal, State and County Statutes, rules, mandates, directives, and orders concerning the collection, transportation, treatment and disposal of wastewaters.

ARTICLE 3 INSURANCE AND INDEMNIFICATION

The Permittee, agrees to indemnify and hold harmless the Buffalo Sewer Authority and its agents and employees against any and all claims resulting from work performed under this permit. The permittee shall be solely responsible for any and all injury or damage to its employees or property arising from use of Buffalo Sewer Authority facilities under this permit.

In the event of any alteration, non-renewal or cancellation of these policies, at least (45) forty-five days advance notice shall be given to the Industrial Waste Section, Bird Island Treatment Plant, 90 West Ferry Street, Buffalo, New York 14213 - before such change shall be effective.

ARTICLE 4 TERMINATION FOR VIOLATION OF AGREEMENT

In the event of a violation of any of the terms and conditions of this permit by the Permittee or upon the failure to pay the charges herein specified, the Buffalo Sewer Authority shall terminate the permit by service of notice of termination by registered mail at the Permittee's office address as set forth above.

ARTICLE 5 PERMITTEE APPROVAL

Official: JOHN YENSAN
Print Name

Title: PRESIDENT
Print

Signature: [signature]

Date: 4/20/2020

ARTICLE 6 BUFFALO SEWER AUTHORITY APPROVAL

Approved as to Content:

Signature: L Sedric
Industrial Waste Administrator

Date: 4/21/2020

Effective this 22ND day of APRIL, ~~2019~~ 2020

[signature]
General Manager
Buffalo Sewer Authority

BUILDING PERMIT

Department of Permit & Inspection Services

65 Niagara Sq Rm. 301
Buffalo, NY 14202

Byron W. Brown, Mayor

Department of Permit & Inspection Services

. . . . Building a Better Buffalo

Application Type: General Construction Permit

You must contact the Inspector at (716)851-4818 or at the number listed below prior to starting any work.

Application/Permit No.: GC19-9485176

Location: 229 ELK

Applicant: ONTARIO SPECIALTY CONTRACTING
333 GANSON ST
BUFFALO, NY 14203-

SBL No.: 1221200001036000

Land Use: 710

Census Track: 163.00

Inspector: Erik Hoepfinger (716)851-4818

Issue Date: 08/22/2019

Processed By: DAVID KRUG

Expire Date: 02/22/2020

Fees: $5,748.00

License No.: SPC11-541477

License Type: SPECIALITY CONTRACTOR

DBA: ONTARIO SPECIALTY CONTRACTING INC

Value: $2,500,000.00

Plans: Yes

Description of Work: NEW FOUNDATIONS, NEW STEEL ON 1ST AND 2ND FLOOR AND ROOF, NEW CONCRETE FLOORS, NEW ROOFING, NEW PORTE COCHERE TO AN EXISTING COMMERCIAL OFFICE BUILDING. PLANS FILED

YOU MUST CONTACT YOUR INSPECTOR PRIOR TO STARTING ANY WORK

RECEIVED
AUG 22 2019
C.O.B. TREASURY

James Comerford Jr.

Commissioner, Permit & Inspection Services

Thank you for investing in the City of Buffalo

AND AS SHOWN ON APPLICATION NUMBERED ABOVE. WHICH APPLICATION IS MADE PART OF THIS PERMIT.
*** ALL GENERAL CONTRACTORS AND SUB-CONTRACTORS MUST CARRY A CITY LICENSE ***
ALL WORK PERFORMED AND ANY ASSOCIATED PLANS SUBMITTED FOR THE ISSUANCE OF THIS PERMIT, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
THIS PERMIT IS VOID IF FOUND TO BE ISSUED IN VIOLATION OF ANY LAW OR ORDINANCE AND CONDITIONS STATED ABOVE.

THIS PERMIT MUST BE DISPLAYED WHERE IT IS VISIBLE FROM THE STREET

Signature of Contact/Contractor _____ Date: 8/22/2019

Apply for your next Building Permit online at http://www.buffalony.gov

BUFFALO SEWER AUTHORITY
ENGINEERING DIVISION

1023 CITY HALL
BUFFALO N.Y. 14202

PH: (716) 851-4664 EXT. 4222 FAX: (716) 856-5810

APPLICATION FOR STORM SEWER TAP AND INSPECTION

DATE: 05/29/2020 **PERMIT NO:** ST3614

STREET NO: 229 **STREET NAME:** ELK

OWNED BY: SOUTH BUFFALO DEVELOPMENT LL(**PLUMBER:** Matthew Kandefer Plumbing & Heating Inc

MATERIAL: PVC

SIZE: 12 inch

DESCRIPTION: SDR-35 PVC connection to the existing public manhole in Lee (7247)

TAP FEE: $ 800.00

TOTAL PAID: $ 800.00 **RECEIVED DATE:** 05/28/2020

To schedule a tap inspection, call Chief Inspector at (716) 830 6116

ISSUED BY: Casterland Fanfan

SIGNATURE:

PLUMBERS SIGNATURE: Matthew Kandefer (application submited 05/28/2020)

INSPECTED BY: **DATE INSPECTED:**

A COPY OF PERMIT MUST BE KEPT ON JOB SITE
PLEASE NOTIFY THIS OFFICE 24 HRS. PRIOR TO INSPECTION

Call Dig Safely New York two working days before digging!

1-800-962-7962 or 811

Non-Members must be contacted separately.

PLUMBING PERMIT

Department of Permit & Inspection Services

65 Niagara Sq Rm. 301
Buffalo, NY 14202

Byron W. Brown, Mayor

Department of Permit & Inspection Services

. . . . Building a Better Buffalo

Application Type: Plumbing Permit

You must contact the Inspector at (716)851-5067 or at the number listed below prior to starting any work.

Application/Permit No.: **PLUM20-9510785**

Location: **229 ELK**

Applicant: KIMIL CONSTRUCTION INC.
493 Kennedy Rd
CHEEKTOWAGA, NY 14227
USA

SBL No.: 1221200001036000

Land Use: 710

Census Track: 163.00

Inspector: TONY ANDO (716)851-5067

Issue Date: 04/09/2020

Processed By: EMILY GUGINO

Expire Date: 10/09/2020

Fees: $170.00

License No.: PLU11-207293

License Type: PLUMBERS MASTER

DBA: KIMIL CONSTRUCTION INC

Value: $1.00

Plans: No

Description of Work: TIE IN (1) 8" SEWER AND (1) 6" SEWER

Toilets:	0	Water Heaters:	0	Conductors:	0
Urinals:	0	Sumps:	0	Laundries:	0
Basins:	0	Floor Drains:	0	Drink Fountains:	0
Bathtubs:	0	Backflows:	0	Catch Basins:	0
Showers:	0	Sinks:	0	Manholes:	0
Other:	0				

Underground Piping: Length of Pipe 6" diameter or less: 0.00 Length of Pipe > 6" diameter: 0.00

James Comerford Jr.

Commissioner, Permit & Inspection Services

Thank you for investing in the City of Buffalo

AND AS SHOWN ON APPLICATION NUMBERED ABOVE. WHICH APPLICATION IS MADE PART OF THIS PERMIT.
*** ALL GENERAL CONTRACTORS AND SUB-CONTRACTORS MUST CARRY A CITY LICENSE ***
ALL WORK PERFORMED AND ANY ASSOCIATED PLANS SUBMITTED FOR THE ISSUANCE OF THIS PERMIT, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
THIS PERMIT IS VOID IF FOUND TO BE ISSUED IN VIOLATION OF ANY LAW OR ORDINANCE AND CONDITIONS STATED ABOVE.

THIS PERMIT MUST BE DISPLAYED WHERE IT IS VISIBLE FROM THE STREET

Signature of Contact/Contractor _____ Date: 7/1/2020

Apply for your next Building Permit online at http://www.buffalony.gov

PROJECT BY:

Harrington Architecture

WWW.HARRINGTON-ARCHITECTURE.COM

BULLETIN

Job: 18-147
140 Lee Street Power House

Sent Date: 11-15-2019

NUMBER: 1

EFFECTIVE DATE: 11-15-2019

SUBJECT: UPDATED DRAWING SHEETS

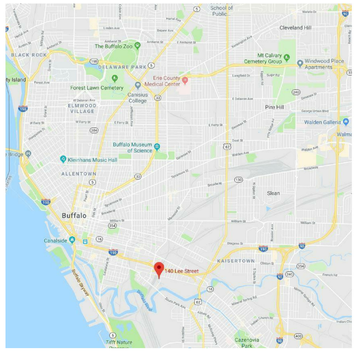
DIRECTIVE: THE FOLLOWING DRAWING SHEETS HAVE BEEN UPDATED.

S200 - North stair to basement.
S201 - North stair to basement.
S202 - North stair to basement.
S204 - 2nd Floor framing to accommodate RTU shafts.
S303 - Coordinated floor elevations with arch. drawings and North stair to basement.
S304 - Coordinated floor elevations with arch. drawings.
FF-1 - 2nd Floor framing to accommodate RTU shafts.
A1.0F - North stair to basement M.O. for door through found. from stair to basement level.
A1.1 - North stair to basement.
A2.1 - Exterior elevations - spandrel panel locations.
A2.2 - Exterior elevations - spandrel panel locations.
A3.1 - North stair to basement.
A7.1 - Curtain wall details - spandrel panel locations.
A7.2 - Curtain wall details - spandrel panel locations.

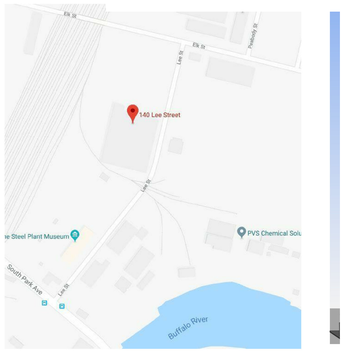
140 LEE STREET - BUFFALO, NEW YORK

CONSTRUCTION DOCUMENTS

NORTH



LOCATION MAP



PROJECT SITE

SYSTEMS LIST

ROOFING:
TREMCO SINGLE PLY TPA/TPO W/INSULATION

CURTAIN WALL & STOREFRONT:
TUBELITE CW400 2-1/2" X 7-1/2" (BLACK ANODIZED)

BASEMENT WINDOWS:
GLASS BLOCK

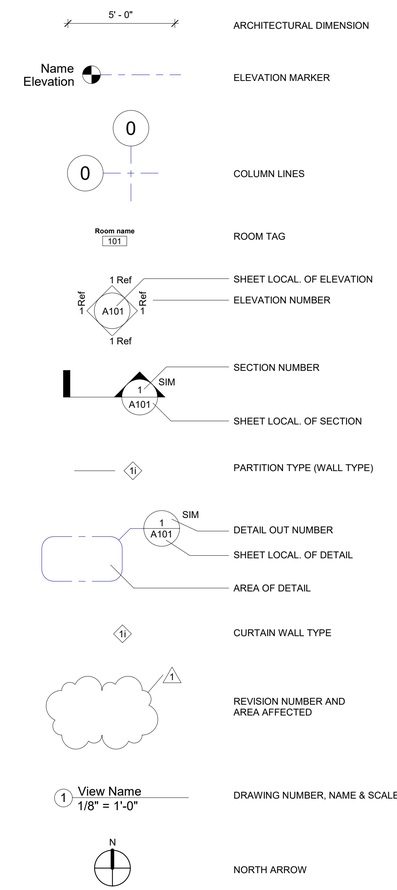
STAIR TOWERS:
TRENWYTH *TRENDSTONE* GROUND FACE CMU
COLOR: "RAVENSTONE"
WITH 2 CORE MASONRY UNITS INSULATED WITH
KORFIL BLOCK INSULATION INSERTS.

ELEVATORS:
SCHINDLER 3300 MRL

OWNER:

SOUTH BUFFALO DEVELOPMENT
333 GANSON STREET
BUFFALO, NEW YORK 14203

ARCHITECTURAL DRAWING SYMBOLS



GENERAL NOTES:

DO NOT SCALE DRAWINGS. IF THERE IS A DIMENSION THAT IS NOT SHOWN ON THE CONSTRUCTION DOCUMENTS THAT REQUIRES CLARIFICATION, REQUEST THAT CLARIFICATION OF THE ARCHITECT.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES, BOUNDARIES, AND CONSTRUCTION DOCUMENTS AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL CODES. LOCAL, STATE AND FEDERAL CODES ARE TO TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS. IF DISCREPANCY IS NOTED, INFORM THE ARCHITECT IMMEDIATELY AND BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS, NOTES, FINISHES AND FIXTURES SHOWN ON TYPICAL FLOOR PLANS, SECTIONS AND DETAILS SHALL APPLY TO ALL SIMILAR, OPPOSITE HAND, OR SYMMETRICAL PLANS, SECTIONS OR DETAILS.

ALL DIMENSIONS ARE TO FACE OF STUD CONSTRUCTION, UNLESS OTHERWISE NOTED.

ALL NEW WALLS SHALL BE ALIGNED WITH THE CENTER OR NEAREST EDGE (AS INDICATED ON DRAWINGS) OF EXISTING WALLS, COLUMNS, WINDOW OPENINGS, ETC. UNLESS OTHERWISE NOTED

THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS INDICATED ON THE DRAWINGS AND SHALL NOT ENCUMBER THE SITE WITH MATERIAL AND EQUIPMENT.

FAILURE TO SHOW OF MENTION MINOR DETAILS SHALL NOT BE WARRANT FOR OMISSION OF
NECESSARY APPURTENANCES FOR THE NORMAL, USUAL OR PROPER COMPLETION OF THE WORK.

ALL FINISHES NOT INVOLVED IN AREAS OF CONSTRUCTION SHALL BE PROTECTED IN SUCH A MANNER THAT WHEN THE WORK IS COMPLETE THE FINISHES WOULD BE IN THE SAME CONDITION THEY WERE BEFORE THE WORK STARTED. ANY UNFORTUNATE DAMAGE TO EXISTING TO REMAIN WILL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.

COORDINATE ALL NEW ARCHITECTURAL WORK WITH DESIGN-BUILD ENGINEERED CONSTRUCTION DOCUMENTS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS.

SMOKE TIGHT CONSTRUCTION SHALL MEET REQUIREMENTS OF THE BUILDING CODE OF NYS, 2010 EDITION, SECTION 710.
PENETRATIONS AND JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE, SUCH AS FIRE RATED SPRAY FOAM.

DRAWING LIST:

A0.0 COVER SHEET

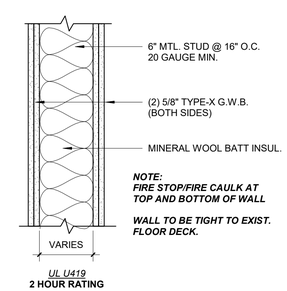
STRUCTURAL

S.001 GENERAL NOTES
S.100 BASEMENT DEMOLITION PLAN
S.101 BASEMENT STEEL AND REPAIR PLAN
S.102 FIRST FLOOR DEMOLITION AND REPAIR PLAN
S.103 2ND FLOOR DEMOLITION PLAN
S.104 3RD FLOOR DEMOLITION PLAN
S.105 LOWER ROOF AND LOWER ROOF TERRACE DEMOLITION
S.106 UPPER ROOF DEMOLITION PLAN
S.200 BASEMENT NEW WORK PLAN
S.201 BASEMENT NEW STEEL PLAN
S.202 FIRST FLOOR NEW WORK PLAN
S.203 2ND FLOOR NEW WORK PLAN
S.204 3RD FLOOR NEW WORK PLAN
S.205 LOWER ROOF AND LOWER ROOF TERRACE NEW WORK PLAN
S.206 UPPER ROOF NEW WORK PLAN
S.207 STAIR TOWER ROOF PLANS
S.300 BUILDING SECTIONS
S.301 BUILDING SECTIONS
S.302 BUILDING SECTIONS
S.303 NORTH STAIR TOWER SECTIONS
S.304 SOUTH STAIR TOWER SECTIONS
S.305 EAST STAIR TOWER SECTIONS
S.400 DETAILS
S.401 DETAILS
S.402 DETAILS
S.403 DETAILS
FF-1 2ND FLOOR FRAMING PLAN
FF-2 SECTIONS AND NOTES
FF-3 FLOOR TRUSS DETAILS
FF-4 DETAILS
PC-2 PORTE COCHERE PLANS AND SECTIONS
PC-3 PORTE COCHERE NOTES AND DETAILS

ARCHITECTURAL

A1.0 PLAN AT GRADE
A1.0F FOUNDATION PLAN
A1.1 FIRST FLOOR PLAN
A1.2 SECOND FLOOR (WEST) LEASE SPACE
A1.3 THIRD FLOOR (EAST)
A1.4 ROOF TERRACE PLANS & ELEVATOR PLANS/DETAILS
A2.1 EXTERIOR ELEVATIONS
A2.2 EXTERIOR ELEVATIONS
A3.0 SOUTH STAIR DETAILS
A3.1 STAIR SECTIONS
A3.2 STAIR SECTIONS
A3.2A STAIR DETAILS
A3.3 WALL SECTIONS
A3.4 WALL DETAILS
A4.0 ROOF PLAN
A4.1 ROOF DETAILS
A7.1 CURTAIN WALL DETAILS
A7.2 CURTAIN WALL DETAILS
A7.3 DOOR SCHEDULE, DOOR FRAME AND ELEVATIONS
A7.4 DOOR HARDWARE
PC-0 PORTE COCHERE
PC-1 PORTE COCHERE

Legend 1
1/4" = 1'-0"



NOTE:
FIRE STOP/FIRE CAULK AT TOP AND BOTTOM OF WALL

WALL TO BE TIGHT TO EXIST. FLOOR DECK.

1 WALL TYPES
1 1/2" = 1'-0"

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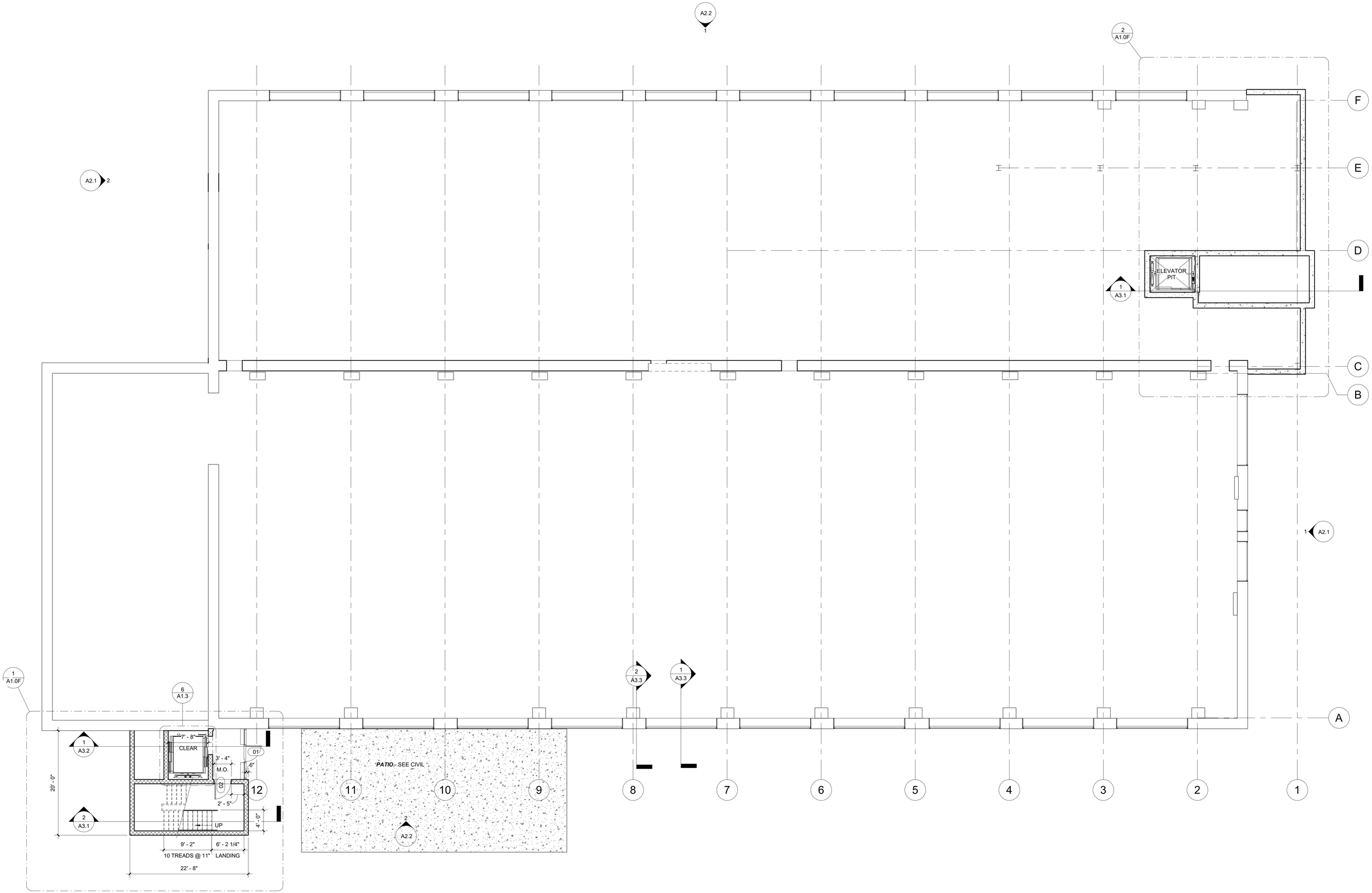
COVER SHEET

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 10-22-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
A0.0



1 EXIST. GRADE
1/8" = 1'-0"

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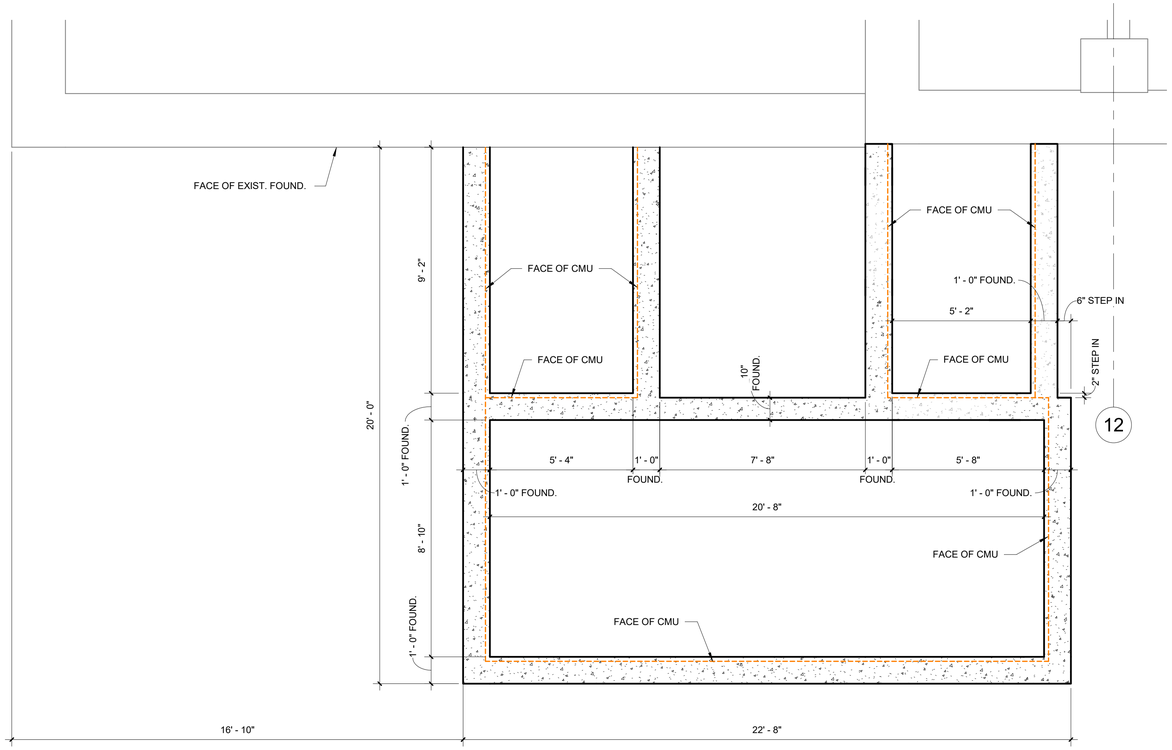
PLAN AT GRADE

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

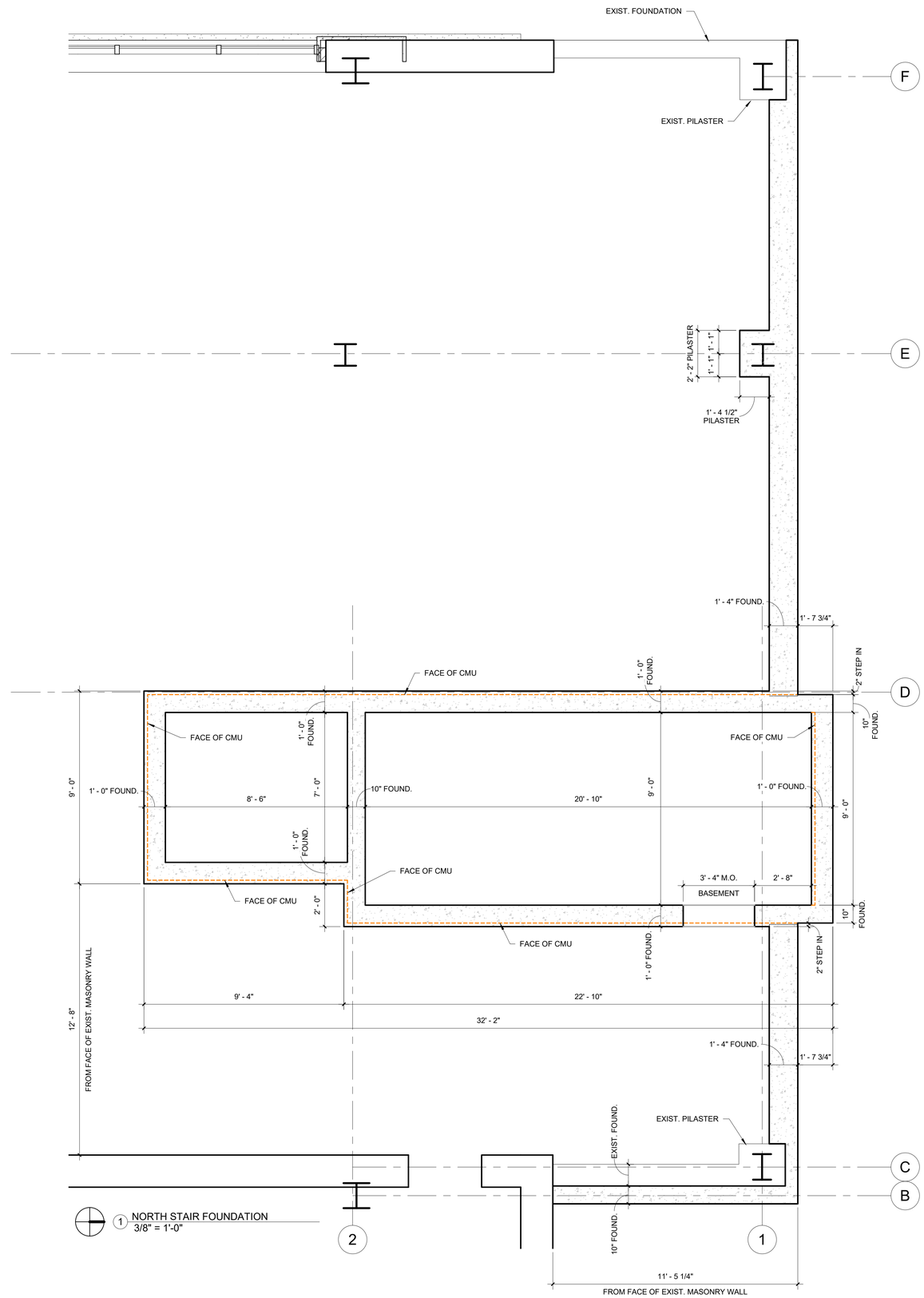
REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10-22-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
A1.0



2 EAST STAIR FOUNDATION
3/8" = 1'-0"



1 NORTH STAIR FOUNDATION
3/8" = 1'-0"

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NORTH STAIR FOUNDATION SKETCH

POWER HOUSE BUILDING

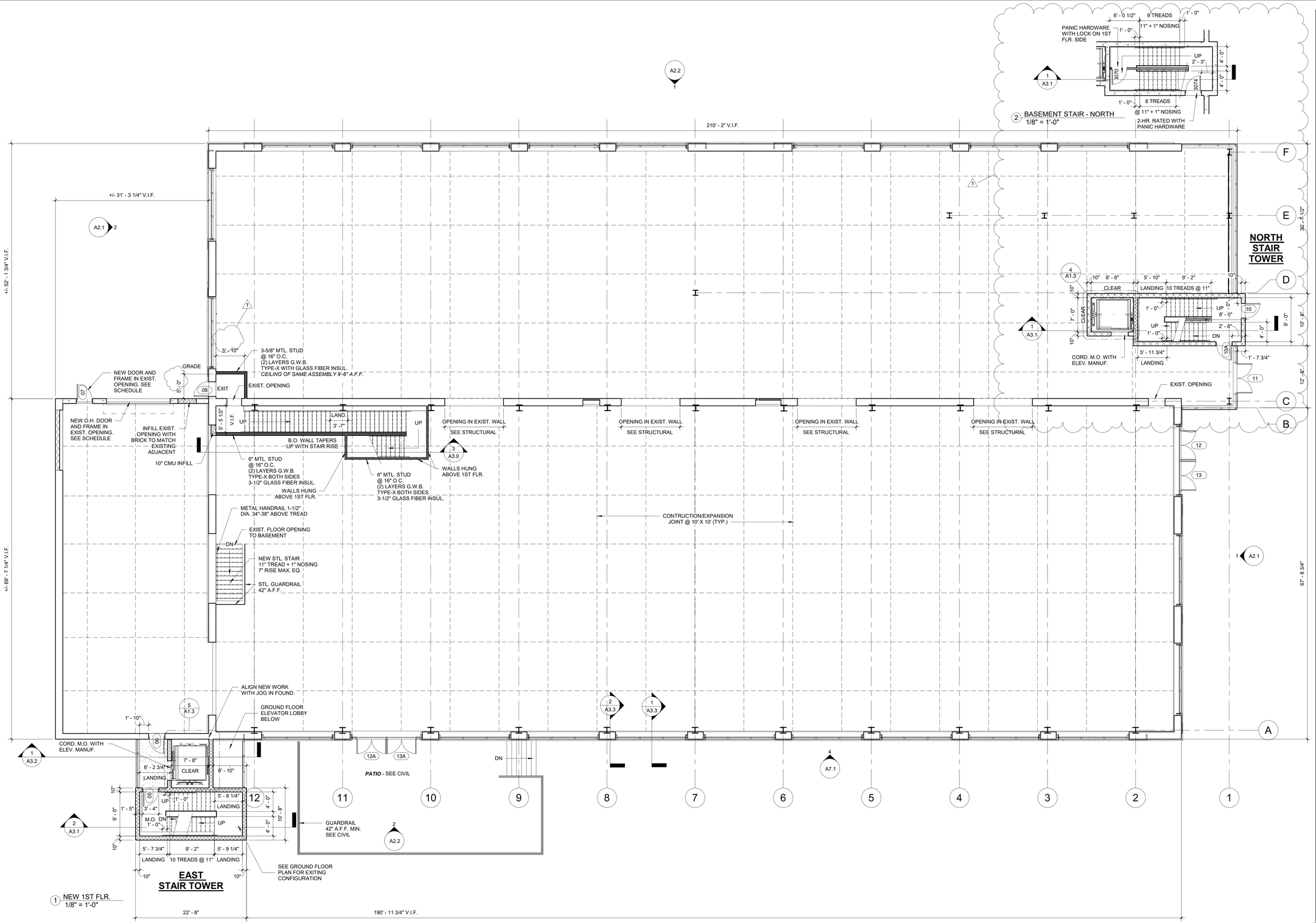
140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE

SCALE:	3/8" = 1'-0"
DATE:	11-15-19
DRAWN BY:	CJC/RLP
PROJECT NUMBER:	18-147

SHEET NUMBER:

A1.0F



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FIRST FLOOR PLAN

POWER HOUSE BUILDING

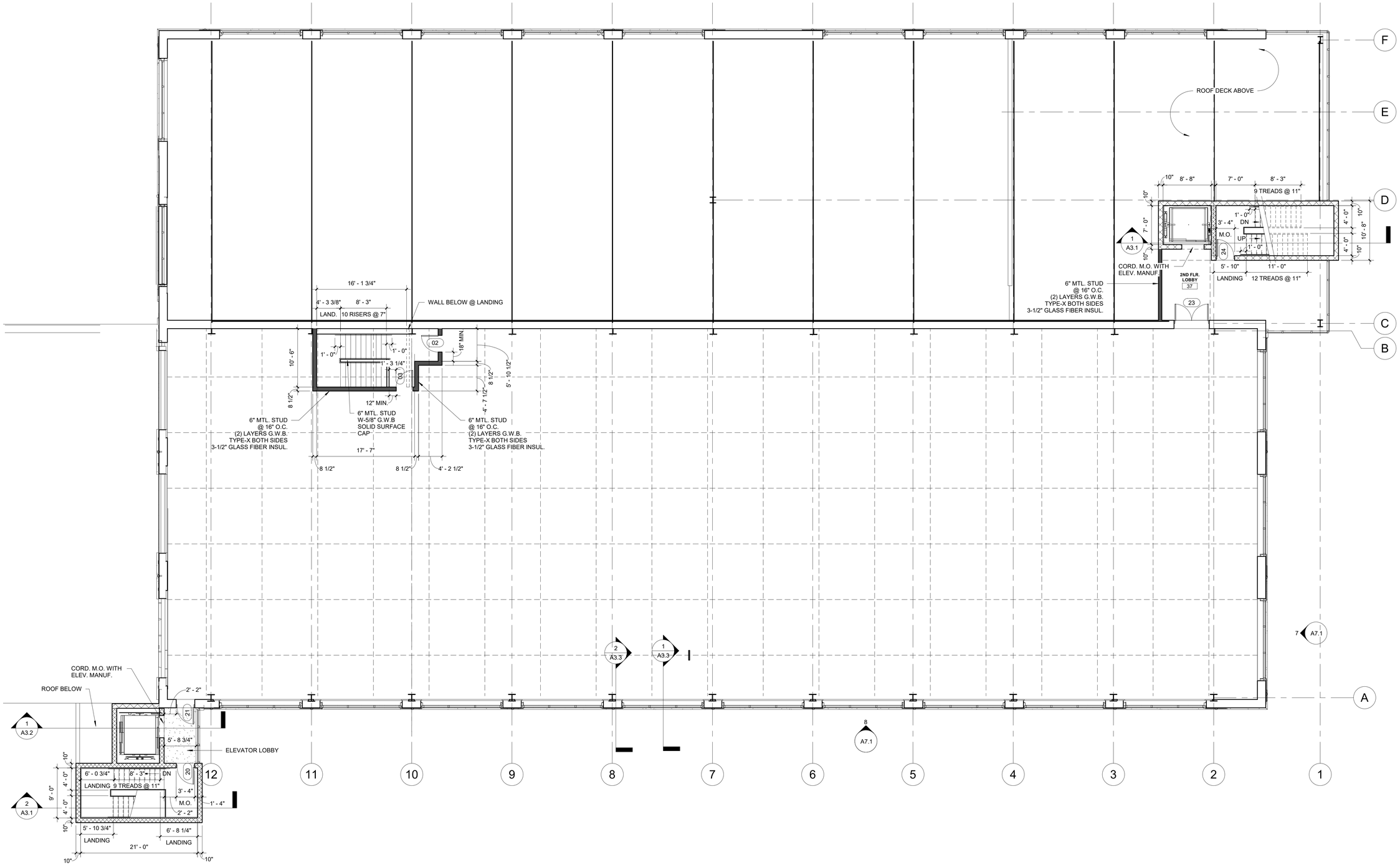
140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE
1	11-01-19

SCALE: 1/8" = 1'-0"
DATE: 11-01-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:

A1.1



1 2ND FLR.
1/8" = 1'-0"

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SECOND FLOOR

POWER HOUSE BUILDING

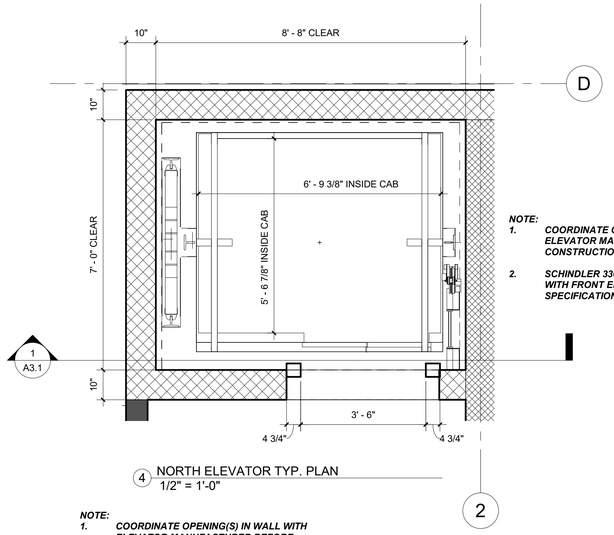
140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10-22-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

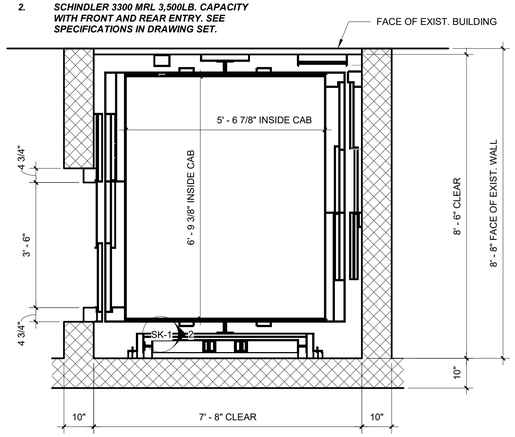
SHEET NUMBER:

A1.2



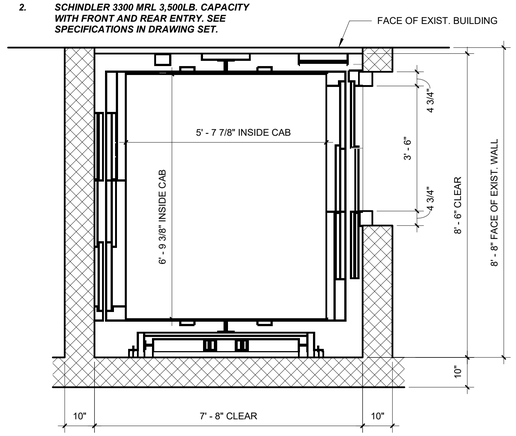
4 NORTH ELEVATOR TYP. PLAN
1/2" = 1'-0"

NOTE:
1. COORDINATE OPENING(S) IN WALL WITH ELEVATOR MANUFACTURER BEFORE CONSTRUCTION BEGINS.
2. SCHINDLER 3300 MRL 3,500LB. CAPACITY WITH FRONT ENTRY. SEE SPECIFICATIONS IN DRAWING SET.

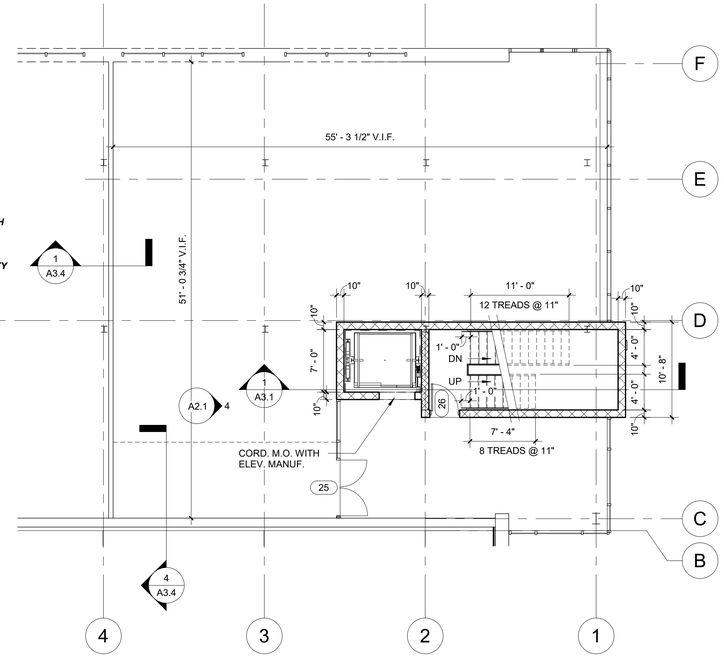


5 EAST ELEVATOR 1ST FLOOR - REAR EXIT
1/2" = 1'-0"

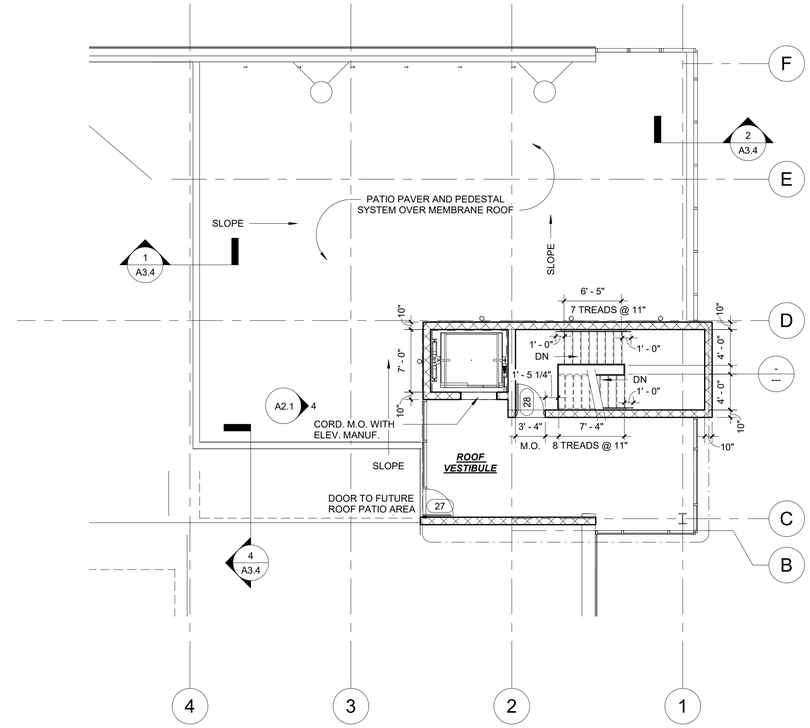
NOTE:
1. COORDINATE OPENING(S) IN WALL WITH ELEVATOR MANUFACTURER BEFORE CONSTRUCTION BEGINS.
2. SCHINDLER 3300 MRL 3,500LB. CAPACITY WITH FRONT AND REAR ENTRY. SEE SPECIFICATIONS IN DRAWING SET.



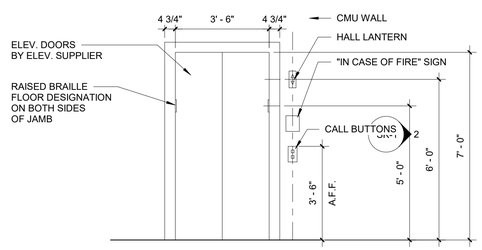
6 EAST ELEVATOR GRADE - FRONT EXIT
1/2" = 1'-0"



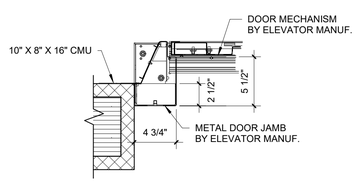
1 LOWER TERRACE
1/8" = 1'-0"



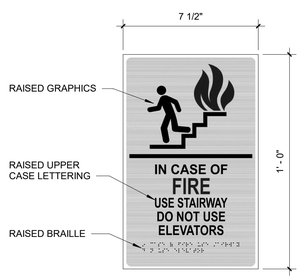
2 UPPER ROOF TERRACE
1/8" = 1'-0"



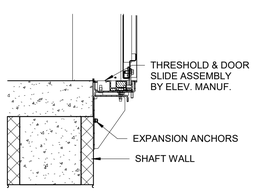
8 ELEVATOR ELEVATION DETAILS
3/8" = 1'-0"



7 ELEVATOR JAMB DETAIL
1 1/2" = 1'-0"



11 ELEVATOR SIGNAGE
3" = 1'-0"



9 ELEVATOR SILL DETAIL
1 1/2" = 1'-0"

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ROOF TERRACE PLANS & ELEVATOR PLANS/DETAILS

POWER HOUSE BUILDING

140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE

SCALE:	As indicated
DATE:	10-22-19
DRAWN BY:	CJC
PROJECT NUMBER:	18-147

SHEET NUMBER:

A1.3

MASONRY REPAIR KEYNOTES

NOTE: THE CONTRACTOR RESPONSIBLE FOR THE RESTORATION WORK SHALL DOCUMENT AMOUNTS OF RESTORATION WORK CONDUCTED DURING THE RENOVATION. NOTE: INSPECT ALL MASONRY AND CONCRETE ON THE ENTIRE STRUCTURE. REMOVE ALL THE EXISTING PAINT FROM THE BRICK SURFACES WITH THE EXCEPTION OF HISTORIC SIGNAGE. WASH THE ENTIRE BUILDING WITH A LOW PRESSURE HIGH VOLUME CLEAN WATER. APPLY ONE PRIME COAT AND 2 FINISH COATS OF AN ELASTOMERIC MASONRY COATING TO THE CONCRETE SURFACES.

BRICK CLEANING & SEALING:
ALL AREAS OF EXTERIOR BRICK OR CONCRETE TO BE CLEANED OF DIRT, DEBRIS AND GRAFFITI. A WATER-REPELLANT TREATMENT IS TO BE APPLIED TO ALL EXISTING AND REPAIRED MASONRY: PROSOCO "SURE KLEAN WEATHER SEAL-SILOXANE WB" SPRAY APPLIED WITH LOW PRESSURE SPRAY (<50PSI). APPLY PER MANUFACTUERS WRITTEN INSTRUCTIONS. ALL METAL BRACKETS FASTENED TO THE EXTERIOR OF THE FACADE ARE TO BE REMOVED AND PATCHED TO MATCH EXISTING ADJACENT. ALL EXISTING PENETRATIONS THROUGH THE FACADE MASONRY ARE TO BE REMOVED AND FILLED TO MATCH THE EXISTING ADJACENT MASONRY.

MASONRY RESTORATION - BRICK REPOINTING:
AREAS OF DETERIORATED MORTAR TO BE RESTORED: RE-POINTING IS DEFINED AS CUTTING OUT OF EXISTING JOINTS TO A DEPTH OF 3/4" AND REPLACING THE MORTAR IN THE JOINT. COMPONENTS OF MORTAR, TEXTURE AND APPEARANCE SHALL MATCH EXISTING. INCLUDED IN THIS IS ALL AREAS TO RECIEVE NEW ROOFING.

MASONRY RESTORATION - BRICK REMOVAL AND REPLACEMENT:
REMOVE DAMAGED, CRACKED, SPALLED OR DETERIORATED BRICK AND ASSOCIATED MORTAR COMPLETE. PROTECT ADJACENT SOUND MASONRY UNITS AND MORTAR. PROVIDE REPLACEMENT UNITS AND MORTAR TO MATCH EXISTING IN KIND, IN ACCORDANCE WITH SPECIFICATIONS. FOR MORTAR AND JOINTS. WHERE SALVAGED BRICK IS NOT POSSIBLE FOR REUSE, ONLY ARCHITECT APPROVAL EQUAL MASONRY SHALL BE ACCEPTED FOR RESTORATION.

MASONRY RESTORATION - IN-KIND BRICK RECONSTRUCTION
UTILIZING SALVAGED BRICK FROM SAME BUILDING, OR NEW BRICK AS APPROVED BY ARCHITECT, CONSTRUCT ENTIRE AREA LIKE NEW, MATCHING BRICK PATTERN AND MORTAR DETAILING TO THE EXISTING BUILDING. ONLY ARCHITECT APPROVED EQUAL MASONRY SHALL BE ACCEPTED FOR CONSTRUCTION OF NEW WALL AREAS.

CONCRETE RESTORATION:
AREAS OF EXPOSED CONCRETE TO BE FULLY RESTORED, SOME AREAS HAVE EXPOSED REBAR AND LOOSE MATERIAL. REMOVE ALL LOOSE MATERIAL AND PRIME REBAR TO STOP ALL CORROSION AND RUST BEFORE PROCEDING WITH NEW RESTORATION/PARGING EFFORTS. FOLLOW BRIEF 15: PRESERVATION OF HISTORIC CONCRETE, FROM THE DEPT. OF INTERIORS'S PRESERVATION OF HISTORIC ARCHITECTURE. CLEAN AND REPOINT ALL EXISTING HISTORIC CONCRETE SILLS AND TRIM IN ACCORDANCE WITH SPECIFICATIONS AND DEPARTMENT OF INTERIORS STANDARDS. REPLACE CONCRETE SILLS ENTIRELY, MATCH ALL COLORATION, MIX DESIGN AND DETAILING TO EXISTING HISTORIC SILLS. SUBJECT TO ARCHITECT APPROVAL THROUGH SAMPLES AND IN-PLACE MOCK-UP OF INSTALLATION.

FACADE MATERIAL NOTES

1. BEFORE FINAL ORDERING OF MATERIALS, COORDINATE COLOR SCHEMES WITH ARCHITECT VIA USE OF EXTERIOR ELEVATIONS IN COLOR.

3. ALL ADJACENT COPINGS, FLASHINGS AND TRIM SHALL MATCH MAIN FIELD COLOR . FINAL SELECTIONS SHALL BE BY ARCHITECT FROM PHYSICAL FULL RANGE OF MATERIAL SAMPLES FOR METAL FLASHINGS AND TRIM.

4. ALL MATERIALS ON EXTERIOR FINISH SCHEDULE SHALL BE SELECTED FROM MANFUCTURER'S FULL RANGES OF COLORS UNLESS SPECIFICALLY NOTED OTHERWISE.

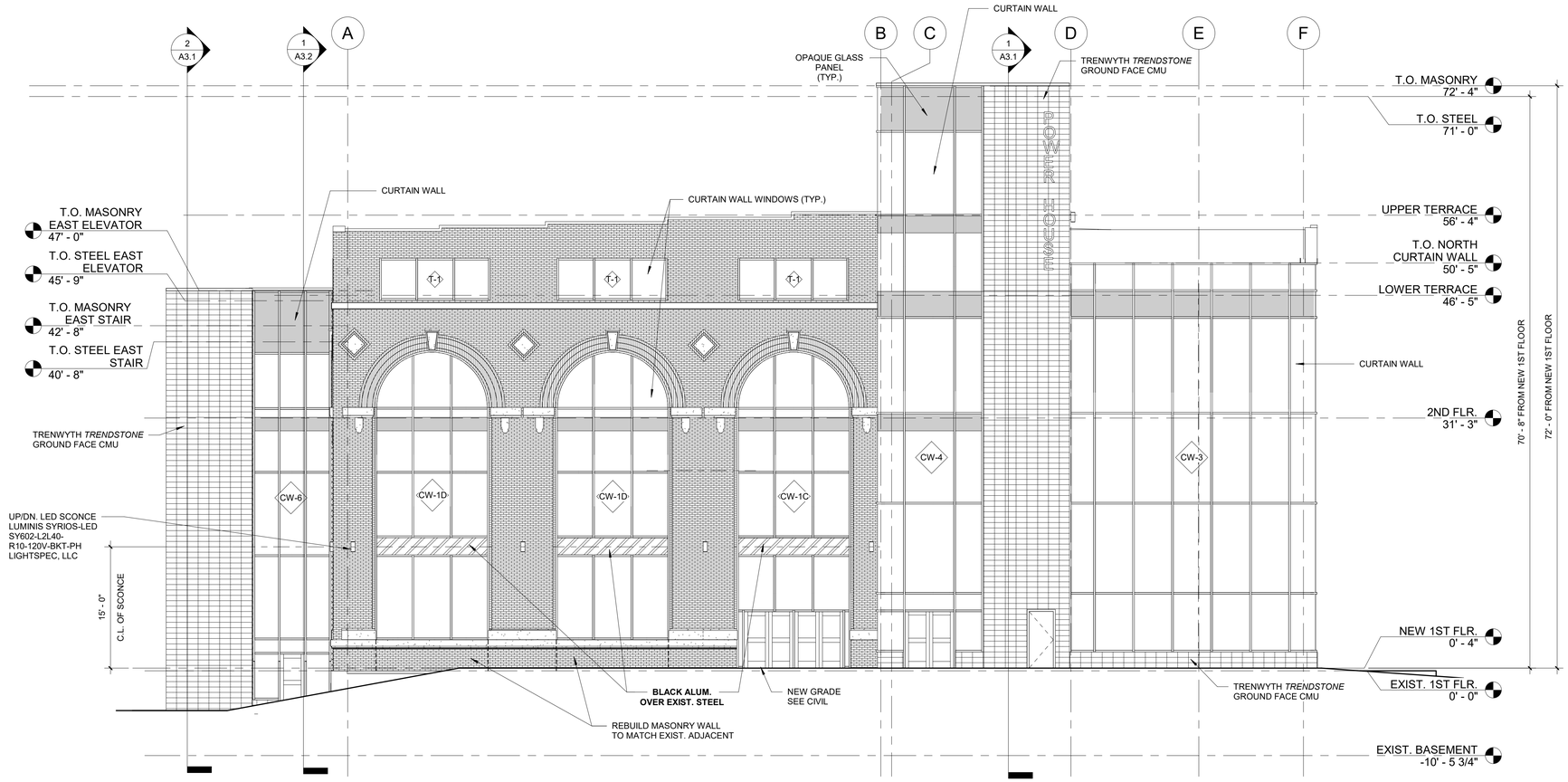
5. ALL EXTERIOR DIS-SIMILAR MATERIALS SHALL BE CAULKED WEATHER TIGHT WITH SILICONE CAULK, COLOR MATCHED TO ADJACENT MATERIALS. CONTRACTOR SHALL COORDINATE ALL COLOR SELECTIONS OF CAULK TO BE USED ON THE JOB WITH THE ARCHITECT USING ELEVATIONS FOR LOCATION AND APPLICATION.

6. ALL ITEMS MOUNTED AT EXTERIOR BRICK SHALL RECEIVE THE PROPER PRE-MANUFACTURED TRIM STONES (FOR ITEMS INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, ELECTRICAL OUTLETS, PLUMBING FIXTURES, ETC.) SOME ITEMS MAY NOT REQUIRE TRIM STONES IF BOXES ARE CONCEALED BEHIND FIXTURE MOUNTING EDGES.

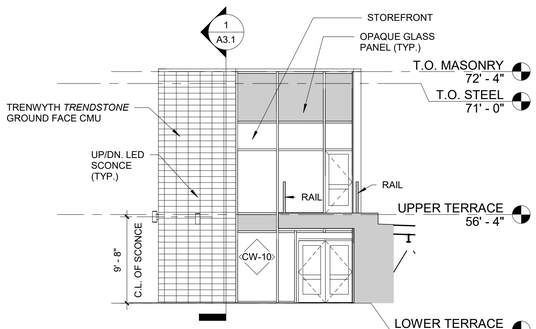
7. REFER TO STRUCTURAL DRAWINGS PRIOR TO START OF ANY CONCRETE OR BRICK RESTORATION.

8. PROVIDE A MOCK UP AREA OF A MINIMUM OF 25 SQ.FT. FOR EACH RESTORATION TO BE REVIEWED BY ARCHITECT PRIOR TO PROCEDDING WITH WORK.

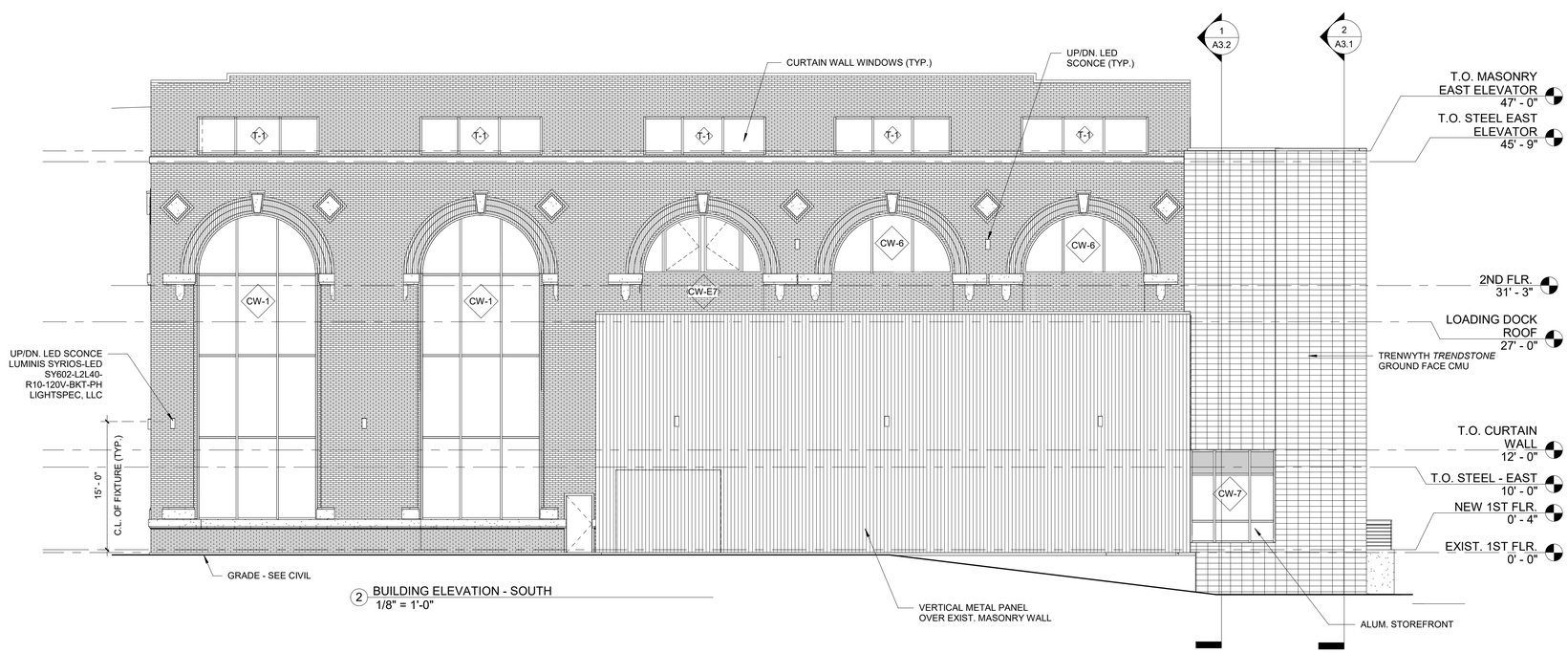
9. NOTE: THE CONTRACTOR RESPONSIBLE FOR THE RESTORATION WORK SHALL DOCUMENT AMOUNTS OF RESTORATION WORK CONDUCTED DURING THE RENOVATION. THE OWNER RESERVES THE RIGHT TO BANK ANY RESORTATION REPAIR AMOUNTS OF THE CONCRETE OR MASONRY WORK NOT REACHED DURING THE COURSE OF WORK AND APPLY THAT TO EITHER MASONRY OR CONCRETE WORK THAT MAY HAVE EXCEEDED NUMBERS PROVIDED DURING THE RESTORATION. ANY WORK NOT REACHED AND NOT REQUIRED OF THE RESTORATION WORK SHALL BE CREDITED TO THE OWNER. NOTE: INSPECT ALL MASONRY AND CONCRETE ON THE ENTIRE STRUCTURE. REMOVE ALL THE EXISTING PAINT FROM THE BRICK SURFACES WITH THE EXCEPTION OF HISTORIC SIGNAGE. WASH THE ENTIRE BUILDING WITH A LOW PRESSURE HIGH VOLUME CLEAN WATER. APPLY ONE PRIME COAT AND 2 FINISH COATS OF AN ELASTOMERIC MASONRY COATING TO THE CONCRETE SURFACES.



1 BUILDING ELEVATION - NORTH
1/8" = 1'-0"



4 NORTH STAIR TOWER - ROOF
1/8" = 1'-0"



2 BUILDING ELEVATION - SOUTH
1/8" = 1'-0"

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EXTERIOR ELEVATIONS

POWER HOUSE BUILDING
140 LEE STREET
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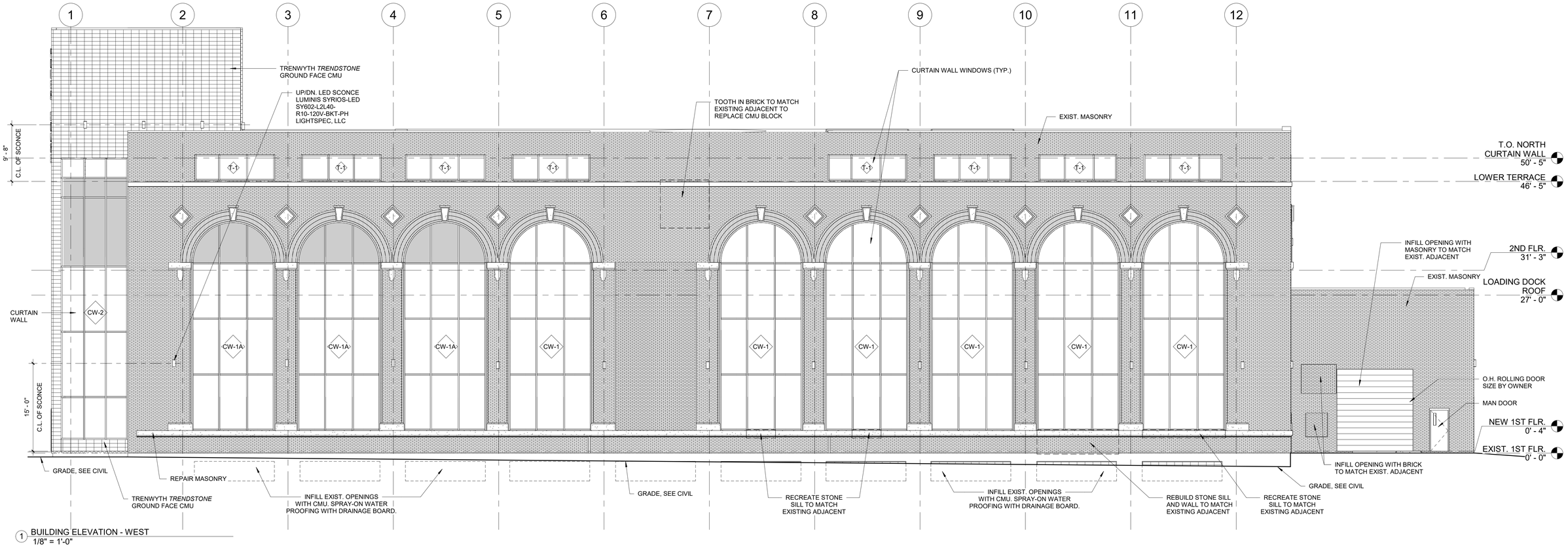
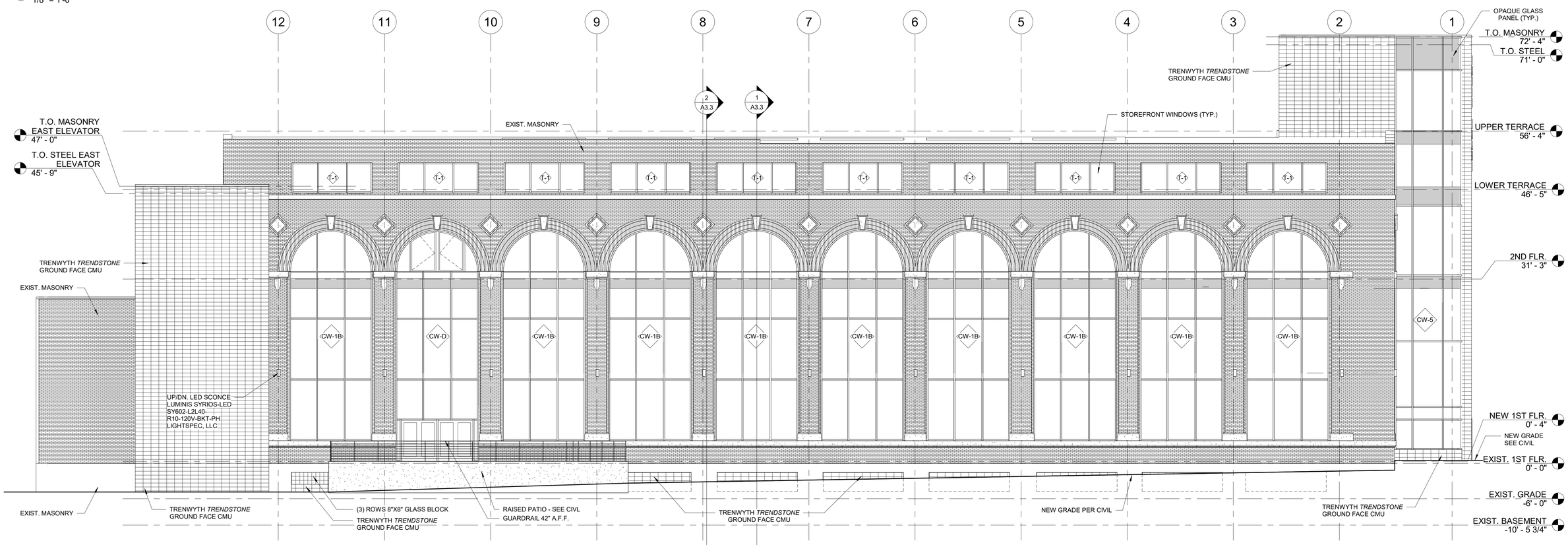
REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 11-12-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
A2.1



1 BUILDING ELEVATION - WEST
1/8" = 1'-0"



2 BUILDING ELEVATION - EAST
1/8" = 1'-0"

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EXTERIOR ELEVATIONS

POWER HOUSE BUILDING
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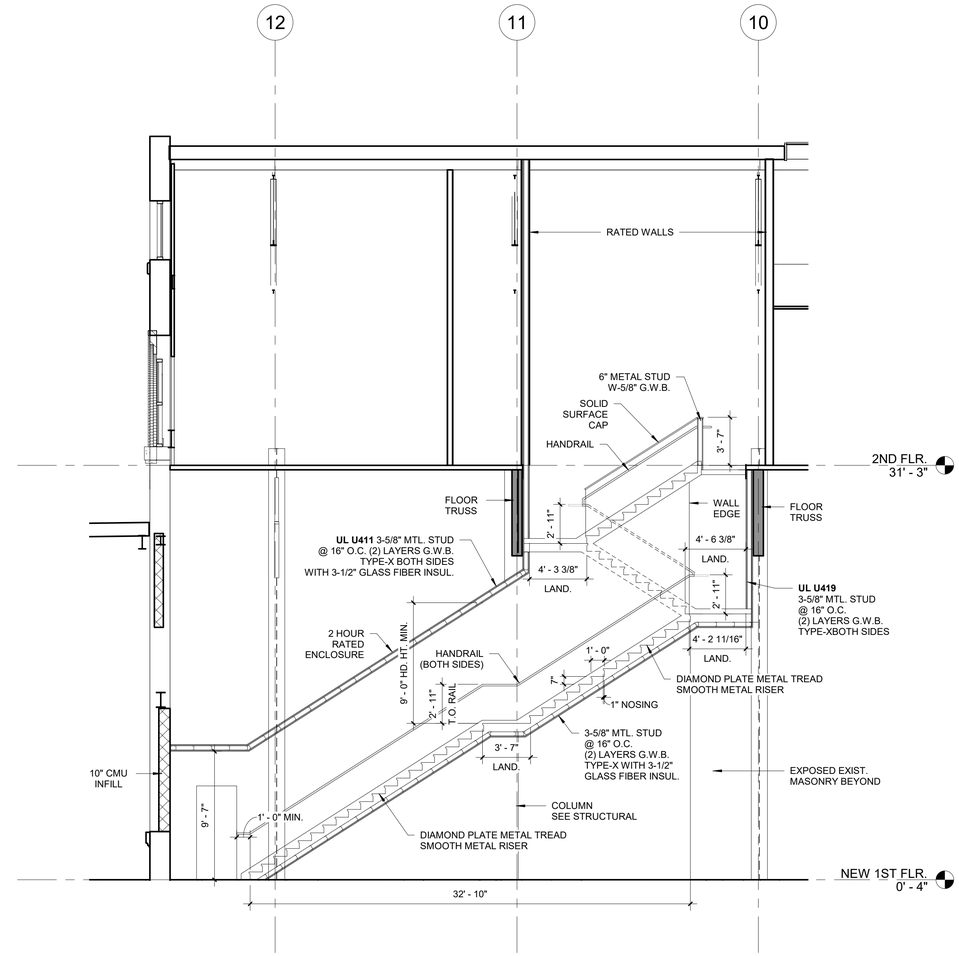
REVISION NUMBER	REVISION DATE

SCALE:	1/8" = 1'-0"
DATE:	11-12-19
DRAWN BY:	CJC
PROJECT NUMBER:	18-147

SHEET NUMBER:

A2.2



2 SOUTH INTERIOR STAIR SECTION
3/16" = 1'-0"

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3RD FLOOR APARTMENTS AND INTERIOR EXIT STAIR

POWER HOUSE BUILDING

140 LEE STREET
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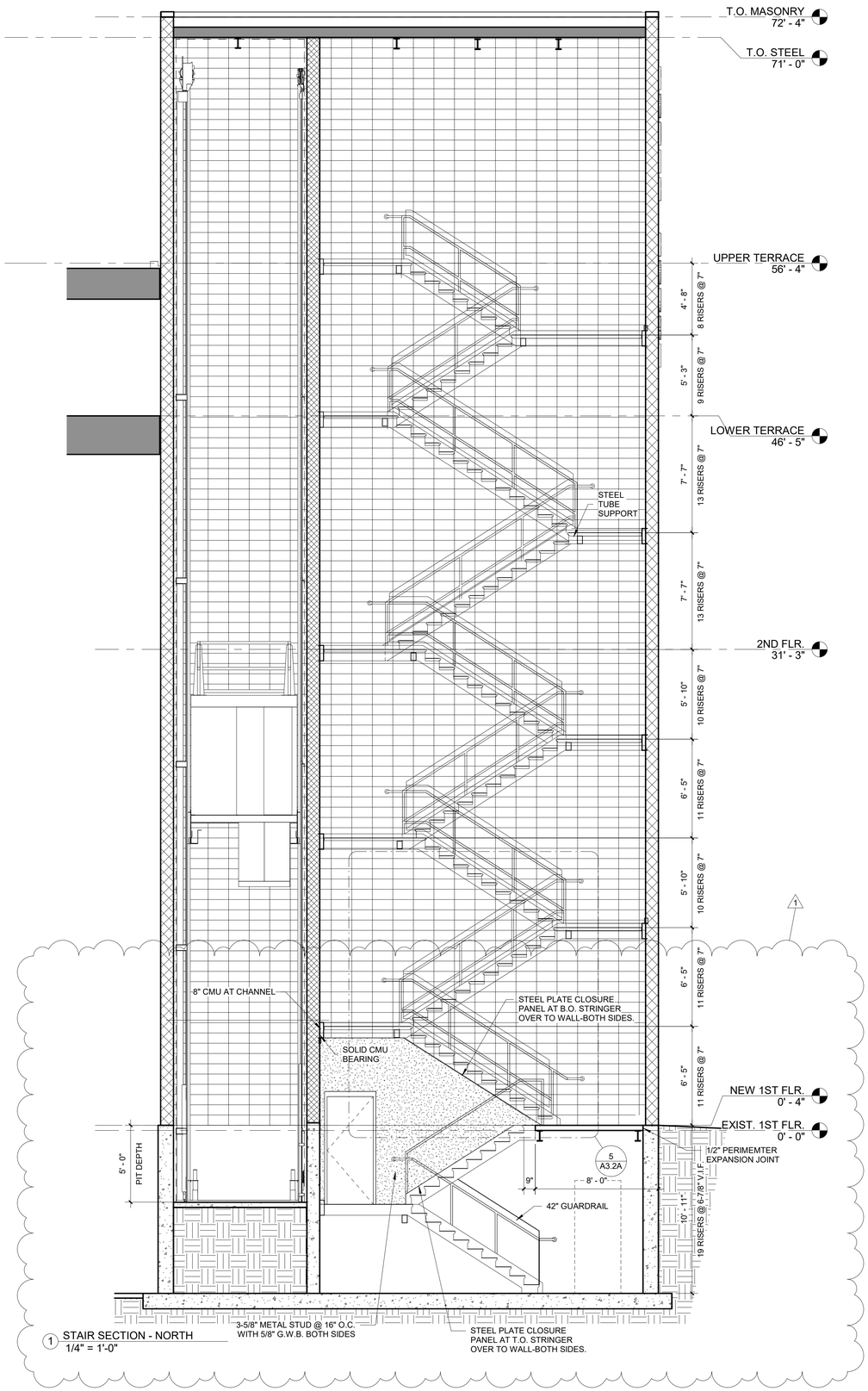
REVISION NUMBER	REVISION DATE

SCALE:	3/16" = 1'-0"
DATE:	10-22-19
DRAWN BY:	CJC
PROJECT NUMBER:	18-147

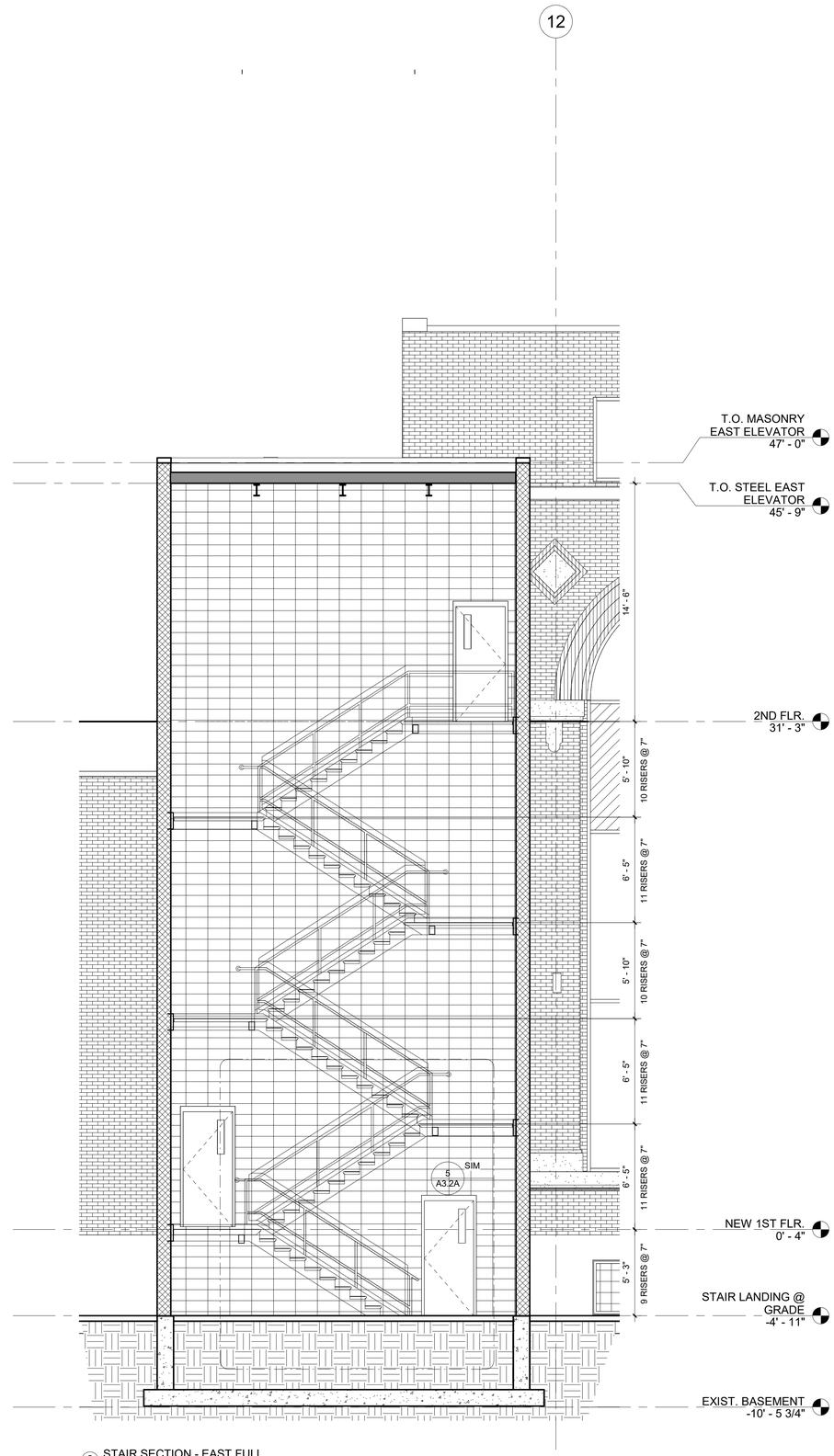
SHEET NUMBER:

A3.0

NOTE: SEE STRUCTURAL DRAWINGS FOR BOND BEAM LOCATIONS AND DETAILS.



1 STAIR SECTION - NORTH
1/4" = 1'-0"



2 STAIR SECTION - EAST FULL
1/4" = 1'-0"

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STAIR SECTIONS

POWER HOUSE BUILDING

140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE
1	11-01-19

SCALE: 1/4" = 1'-0"
DATE: 11-01-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
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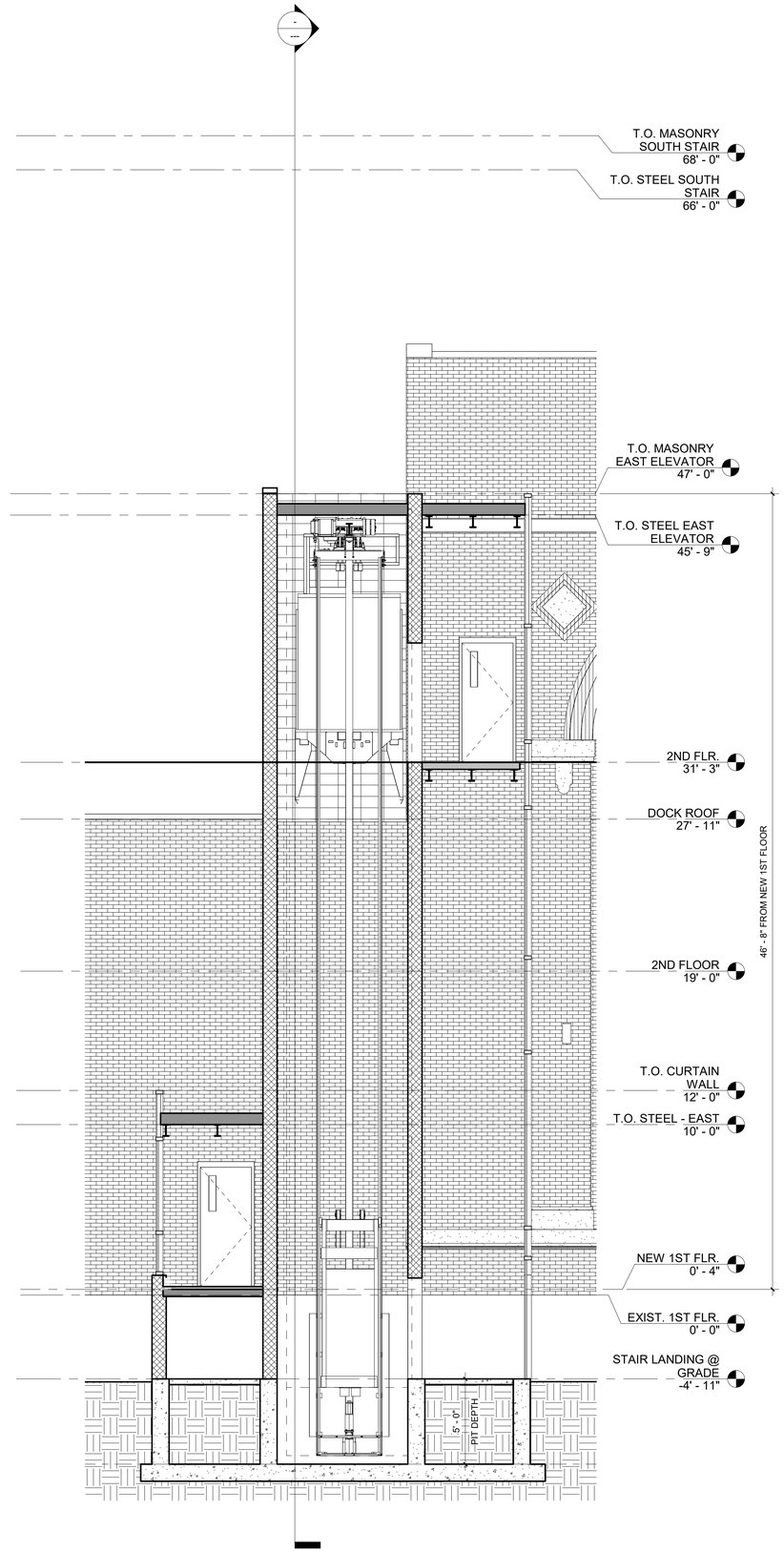

1 STAIR SECTION - EAST
1/4" = 1'-0"

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REVISION NUMBER	REVISION DATE

SCALE: 1/4" = 1'-0"
DATE: 10-22-19
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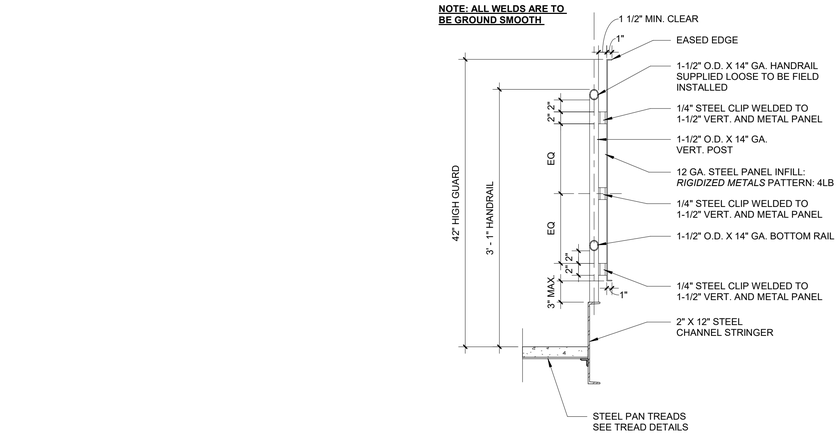
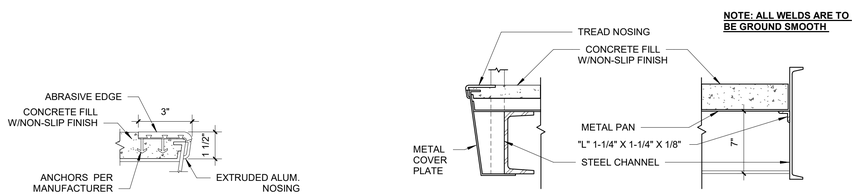
PROJECT NUMBER: 18-147

SHEET NUMBER:
A3.2

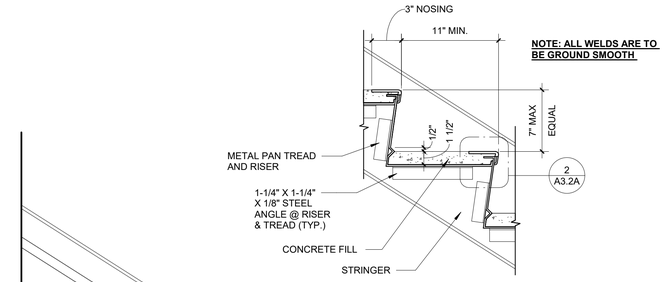


3 STAIR SECTION DETAIL
1" = 1'-0"

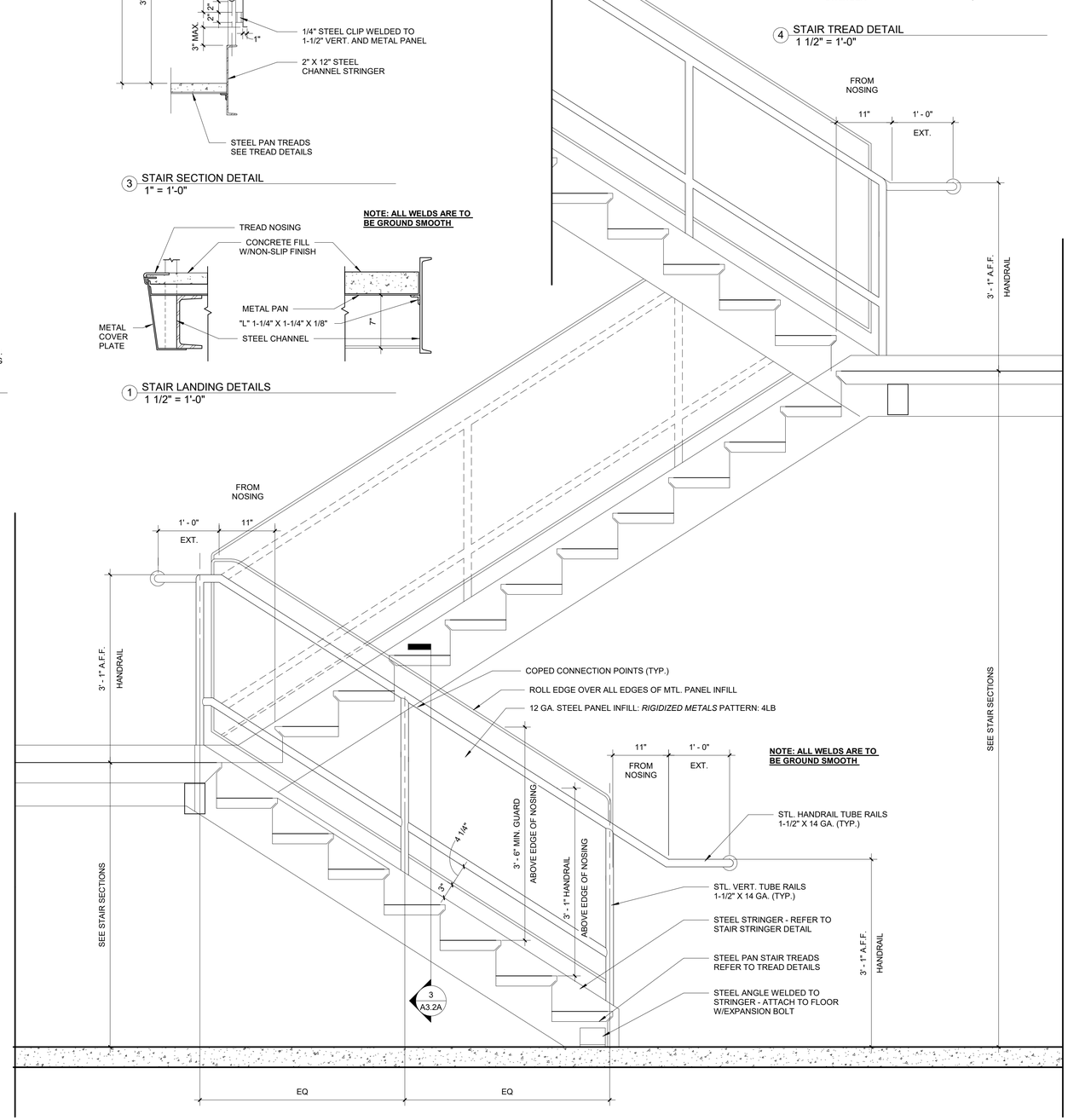


1 STAIR LANDING DETAILS
1 1/2" = 1'-0"

2 STAIR NOSING DETAIL
3" = 1'-0"



4 STAIR TREAD DETAIL
1 1/2" = 1'-0"



5 STAIR DETAILS
1" = 1'-0"

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STAIR DETAILS

POWER HOUSE BUILDING
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REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 10-22-19
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PROJECT NUMBER: 18-147

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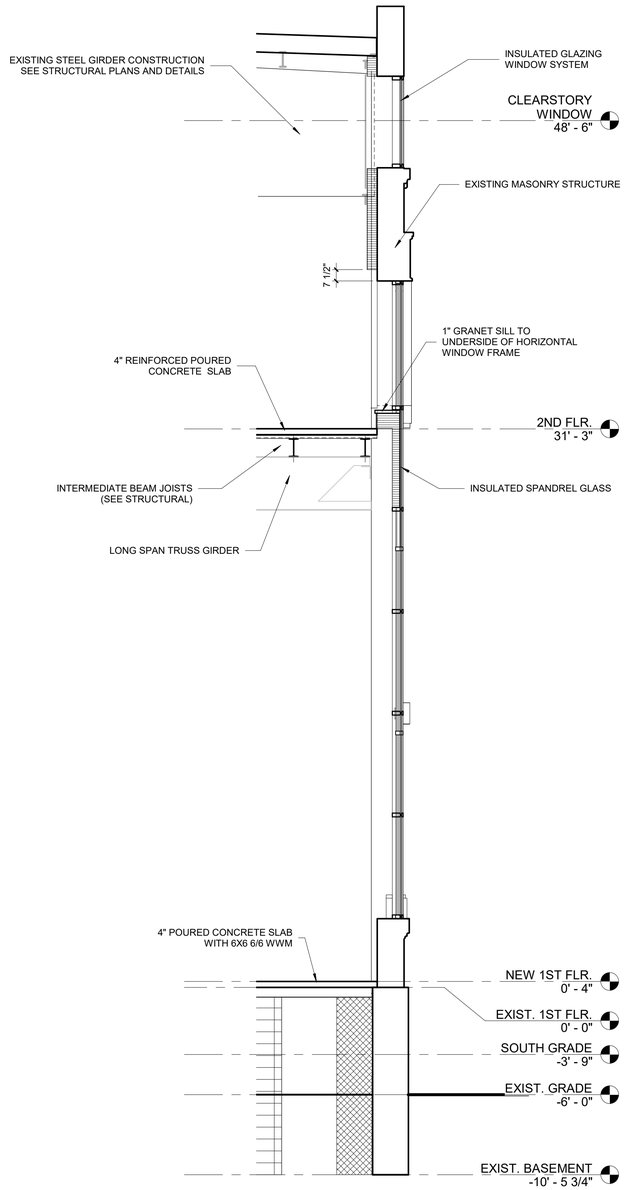
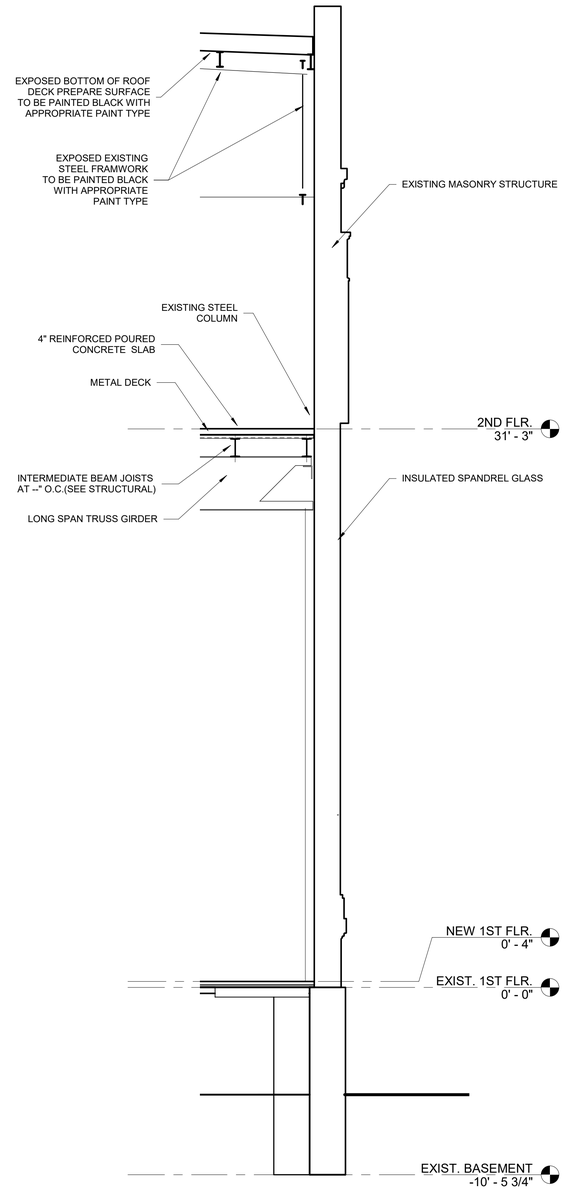


1 EASTatWINDOW
1/4" = 1'-0"



2 EASTatPILASTER
1/4" = 1'-0"

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WALL SECTIONS - PLACEHOLDER

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REVISION NUMBER	REVISION DATE

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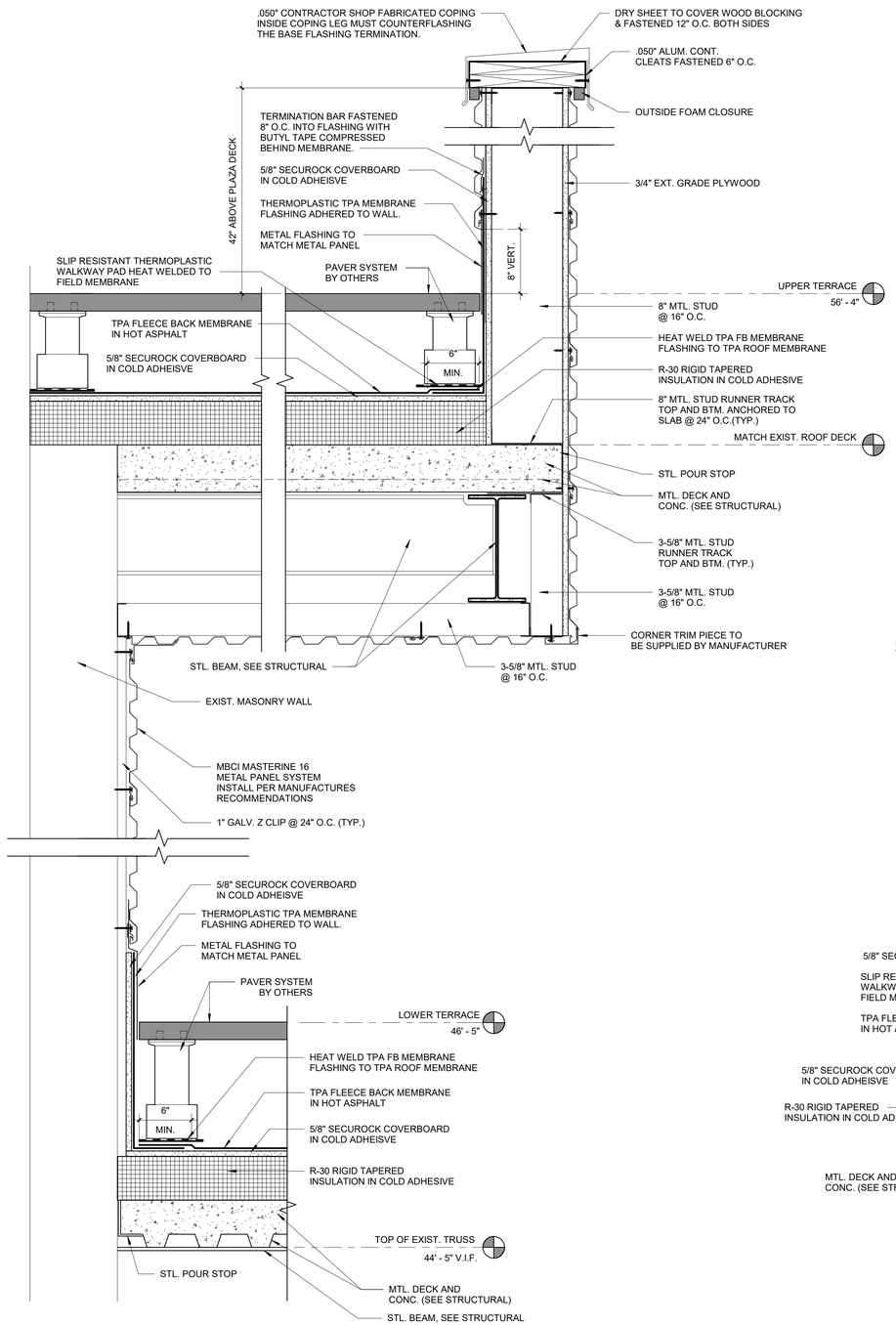
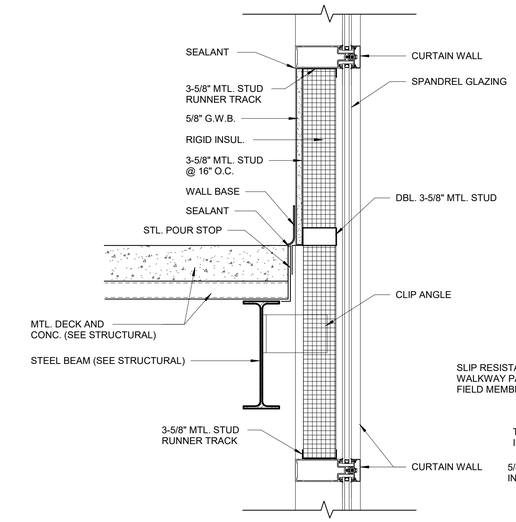
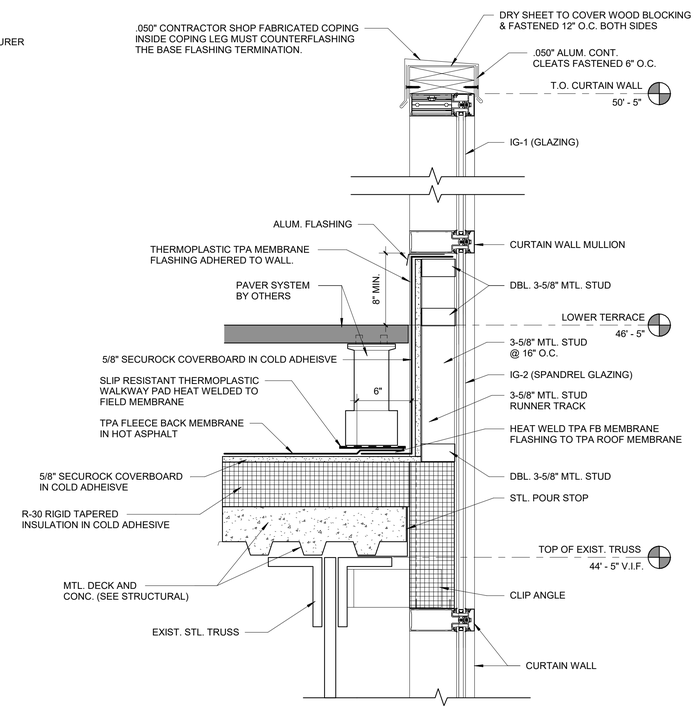


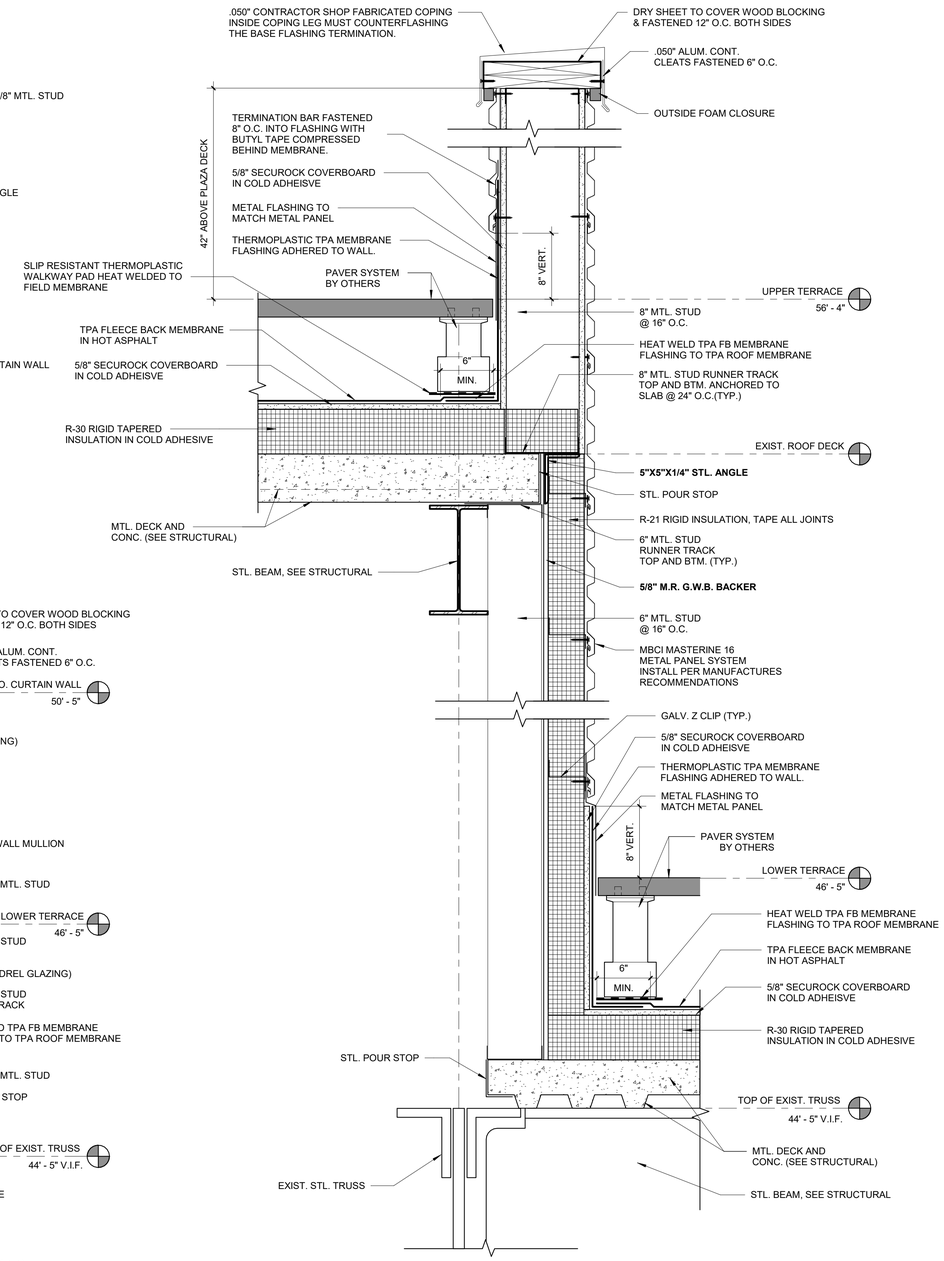
4 WALL DETAIL @ NEW WALKWAY
1 1/2" = 1'-0"



3 CURTAIN WALL/FLOOR DETAIL
1 1/2" = 1'-0"



2 CURTAIN WALL @ ROOF TERRACE
1 1/2" = 1'-0"



1 WALL DETAIL @ UPPER AND LOWER TERRACE LEVELS
1 1/2" = 1'-0"

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WALL DETAILS

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REVISION NUMBER	REVISION DATE

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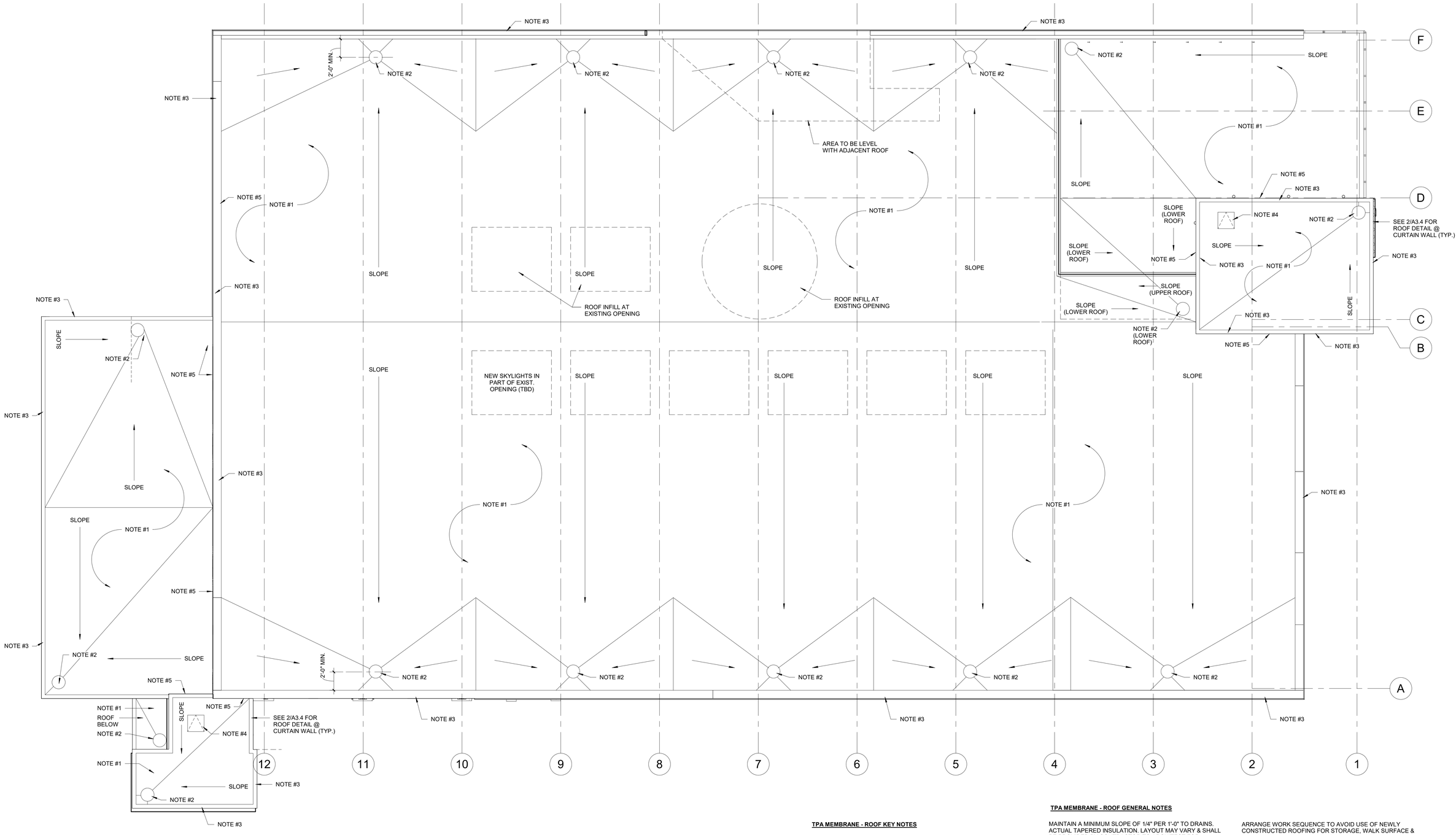

1 ROOF PLAN
1/8" = 1'-0"

TPA MEMBRANE - ROOF KEY NOTES

1. INSTALL NEW FULLY ADHEARD TPA ROOF MEMBRANE AND ALL ROOF SYSTEM COMPONENTS PER ROOF DETAILS AND MANUFACTURERS INSTRUCTIONS. PREPARE ROOF AREA BY REMOVING ALL EXISTING ROOFING MATERIALS DOWN TO EXISTING CONCRETE DECK.
2. NEW DUAL STAGE FULLY INSULATED ROOF DRAINS IN LOCATIONS AS SHOWN CONNECTED TO STORM WATER PIPING. COORDINATE WITH CIVIL ENGINEERING DRAWINGS FOR SIZE AND CONNECTIONS. DUAL STAGE DRAINS TO ALLOW FOR OVERFLOW REQUIREMENTS.
3. INSTALL NEW CUSTOM METAL PARAPET CAP AS DETAILED ALONG EXTERIOR PARAPET WALL LOCATIONS AS INDICATED ON ROOF PLAN. SEE BUILDING ELEVATIONS FOR REFERENCE.
4. NEW ELEVATOR SMOKE HATCH SET IN ROOF AREA OVER ELEVATOR(S).
5. INSTALL TPA ROOF MEMBRANE UP WALL PER DETAIL.

TPA MEMBRANE - ROOF GENERAL NOTES

MAINTAIN A MINIMUM SLOPE OF 1/4" PER 1'-0" TO DRAINS. ACTUAL TAPERED INSULATION. LAYOUT MAY VARY & SHALL BE PROVIDED BY CONTRACTOR TO ARCHITECT FOR APPROVAL DURING CONSTRUCTION PRIOR TO INSTALLATION.

ROOFING CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES FOR ALL ROOF PENETRATIONS INCLUDING- BUT NOT LIMITED TO- THE MECHANICAL, ELECTRICAL, STRUCTURAL & GENERAL CONTRACTOR.

THIS PROJECT IS AND EXISTING ROOF CONDITION - IT IS THE RESPONSBILITY OF THE CONTRACTOR(S) INVOLVED TO CHECK PROJECTIONS, CURBS & DECK FOR ADEQUACY OF ANCHORAGE, FOREIGN MATERIAL, MOISTURE OR UNEVENNESS THAT WOULD PREVENT EXECTION OF WORK.

ALL SURFACES THAT ARE TO RECEIVE NEW INSULATION, ROOFING OR FLASHING SHALL BE THROUGHLY DRY. SHOULD SURFACE MOISTURE OCCUR, CONTRACTOR SHALL PROVIDE NECESSARY EQUIPMENT TO DRY SURFACE PRIOR TO APPLICATION.

ONLY AS MUCH OF THE NEW ROOFING AS CAN BE MADE WEATHER TIGHT EACH DAY, INCLUDING ALL FLASHING, SHALL BE INSTALLED.

ARRANGE WORK SEQUENCE TO AVOID USE OF NEWLY CONSTRUCTED ROOFING FOR STORAGE, WALK SURFACE & EQUIPMENT MOVEMENT. WHERE SUCH ACCESS IS ABSOLUTELY REQUIRED, CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION & BARRIERS TO SEGREGATE THE WORK AREAS & PREVENT DAMAGE TO ADJACENT AREAS. BOTH PLYWOOD & POLYESTER FELT PROTECTION SHALL BE PROVIDED FOR ALL ROOF AREAS (NEW & OLD) THAT RECEIVE TRAFFIC DURING CONSTRUCTION.

ALL WORK SHALL BE SCHEDULED & EXECUTED WITHOUT EXPOSING THE INTERIOR OF THE BUILDING AREAS TO THE EFFECTS OF INCLIMATE WEATHER. THE EXISTING BUILDING & ITS CONTENTS SHALL BE PROTECTED AGAINST ALL RISKS.

ALL NEW OR TEMPORARY CONSTRUCTION INCLUDING EQUIPMENT & ACCESSORIES SHALL BE SECURED IN SUCH A MANNER AT ALL TIMES AS TO PRECLUDE BLOW-OFF & OR WIND DAMAGE.

ROOFING, FLASHING, INSULATION & VAPOR BARRIER SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS & SHALL BE APPLIED ONLY BY A CONTRACTOR AUTHORIZED BY ROOFING MANUFACTURER.

GENERAL NOTES:

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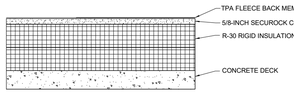
ROOF PLAN

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

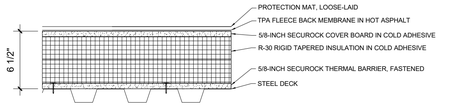
REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10-22-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

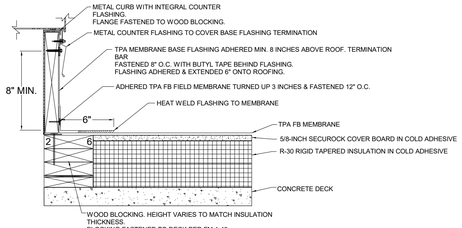
SHEET NUMBER:
A4.0



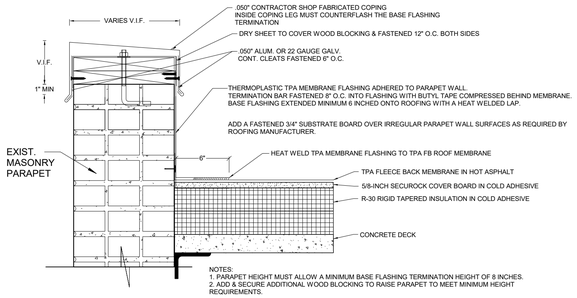
4 ROOF DECK ASSEMBLY
1 1/2" = 1'-0"



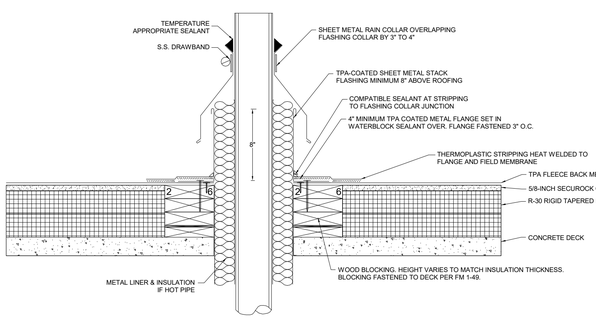
2 ROOF ASSEMBLY STEEL DECK
1 1/2" = 1'-0"



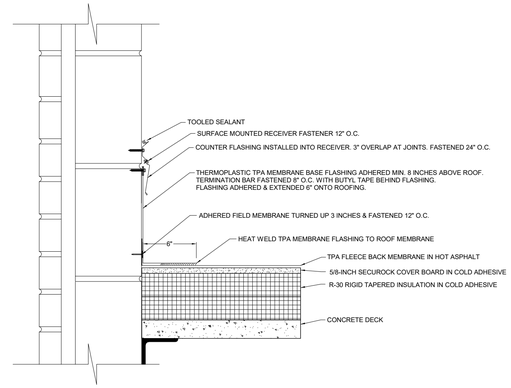
3 ROOF CURB DETAIL
1 1/2" = 1'-0"



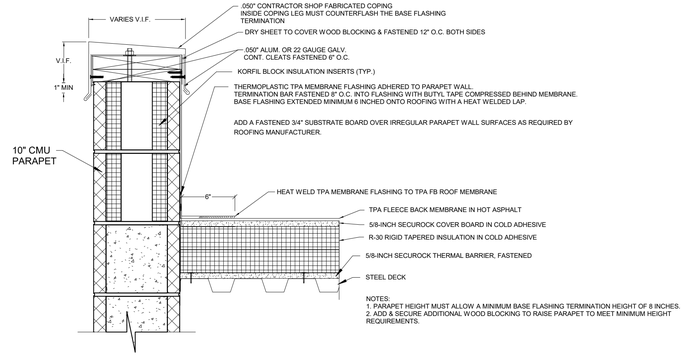
6 ROOF PARAPET COPING
1 1/2" = 1'-0"



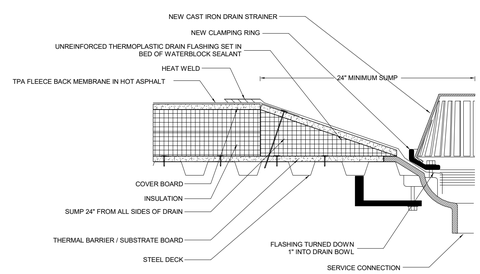
9 STACK FLASHING
1 1/2" = 1'-0"



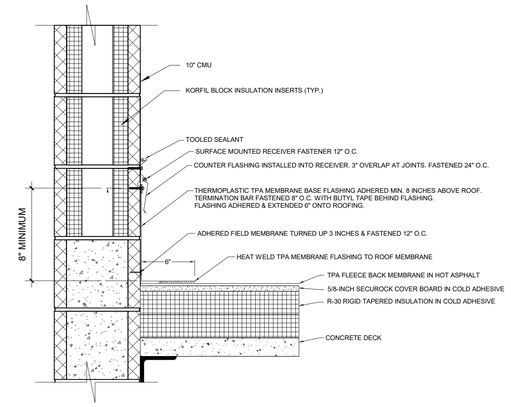
8 ROOF WALL FLASHING
1 1/2" = 1'-0"



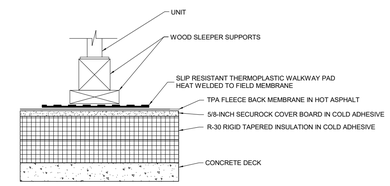
10 ROOF PARAPET COPING - 2
1 1/2" = 1'-0"



5 ROOF DRAIN - STEEL DECK
1 1/2" = 1'-0"



11 ROOF WALL FLASHING @ CMU
1 1/2" = 1'-0"



7 ROOF WALKING PADS
1 1/2" = 1'-0"

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ROOF DETAILS

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE

SCALE: 1 1/2" = 1'-0"
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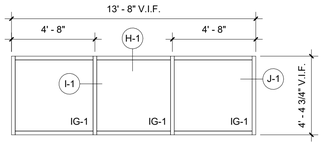
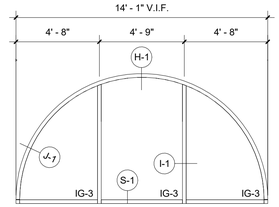
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
A4.1

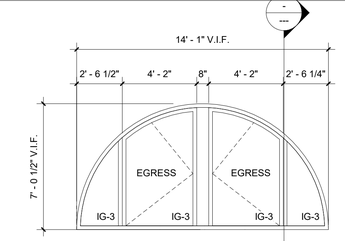
NOTE: CURTAIN WALL TO BE TUBELITE 400T SYSTEM WITH ENTRANCE DOOR TO BE TUBELITE THERMAL=BLOCK SERIES.



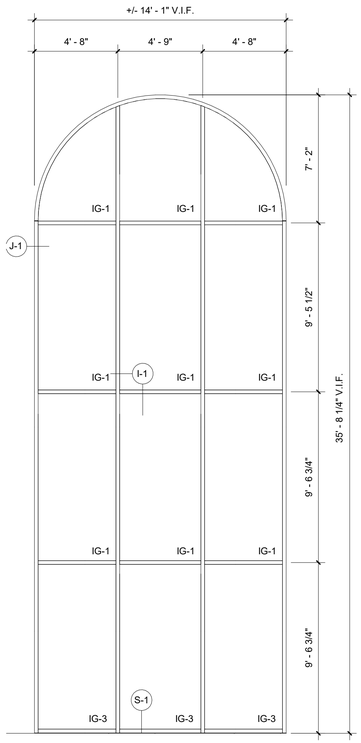
2 CLEAR STORY WINDOW - T-1
1/4" = 1'-0"



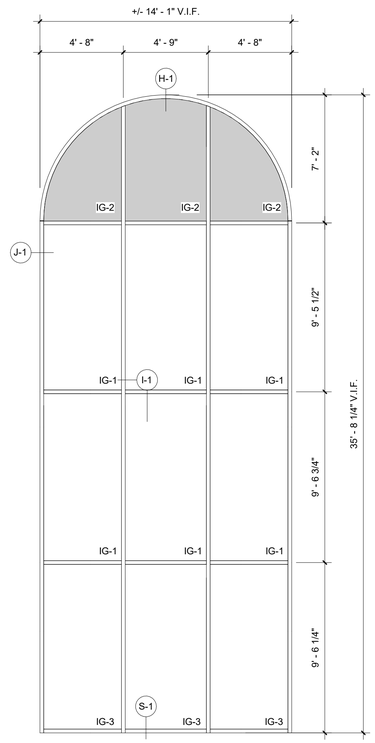
8 CURTAIN WALL ELEV. - CW 6
1/4" = 1'-0"



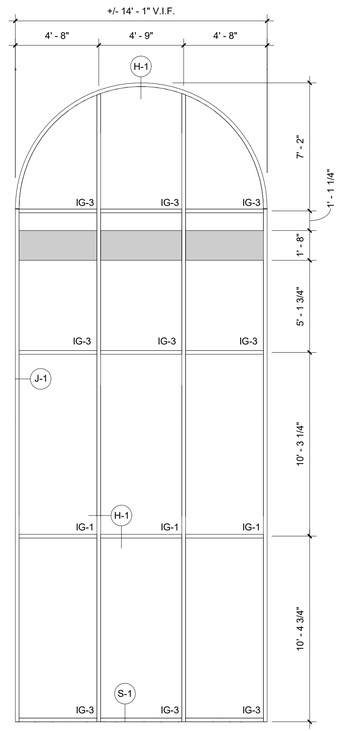
3 CURTAIN WALL ELEV. - E7
1/4" = 1'-0"



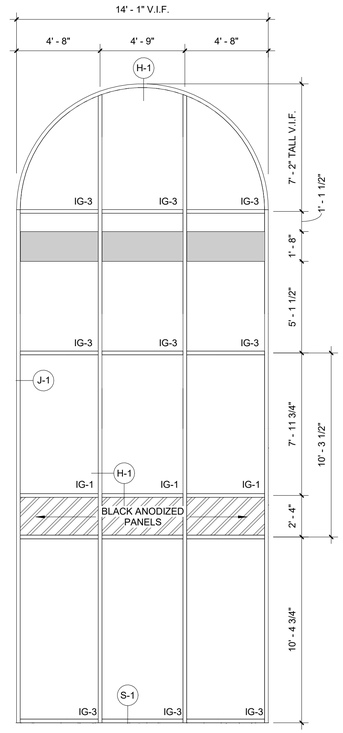
5 CURTAIN WALL ELEV. - CW-1
1/4" = 1'-0"



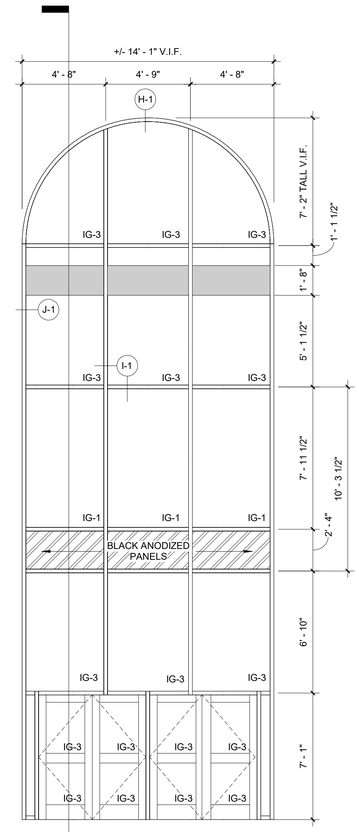
1 CURTAIN WALL ELEV. - CW-1A
1/4" = 1'-0"



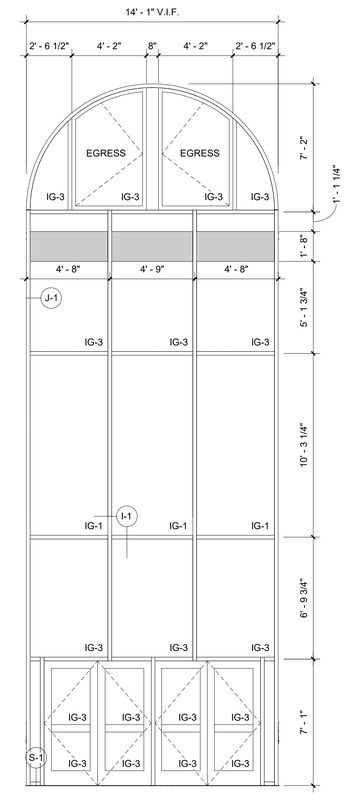
4 CURTAIN WALL ELEV. - CW-1B
1/4" = 1'-0"



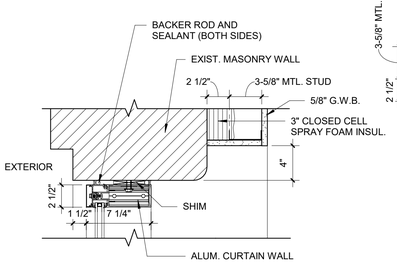
7 CURTAIN WALL ELEV. - CW1D
1/4" = 1'-0"



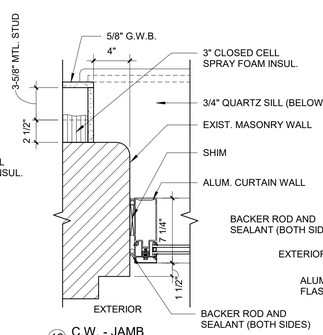
10 CURTAIN WALL ELEV. - CW-1C
1/4" = 1'-0"



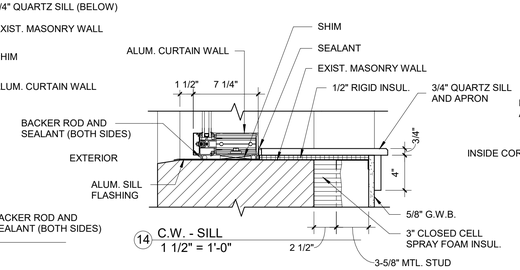
6 CURTAIN WALL ELEV. - CW-D
1/4" = 1'-0"



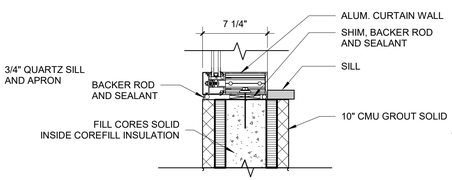
12 C.W. - HEAD
1 1/2" = 1'-0"



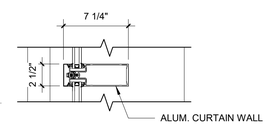
13 C.W. - JAMB
1 1/2" = 1'-0"



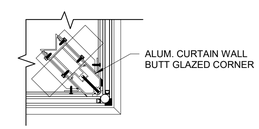
14 C.W. - SILL
1 1/2" = 1'-0"



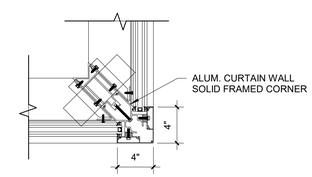
11 C.W. - SILL @ NEW CMU WALL
1 1/2" = 1'-0"



15 C.W. - VERTICAL
1 1/2" = 1'-0"



18 C.W. - CORNER
1 1/2" = 1'-0"



14a C.W. - SOLID CORNER
1 1/2" = 1'-0"

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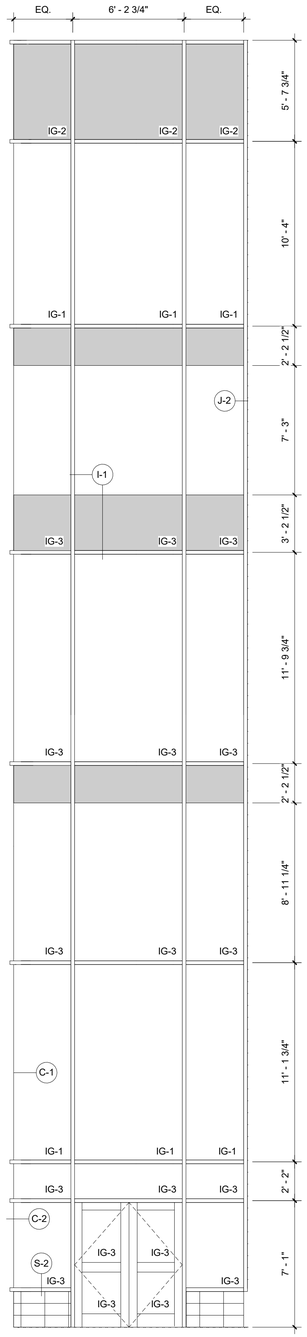
CURTAIN WALL DETAILS

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

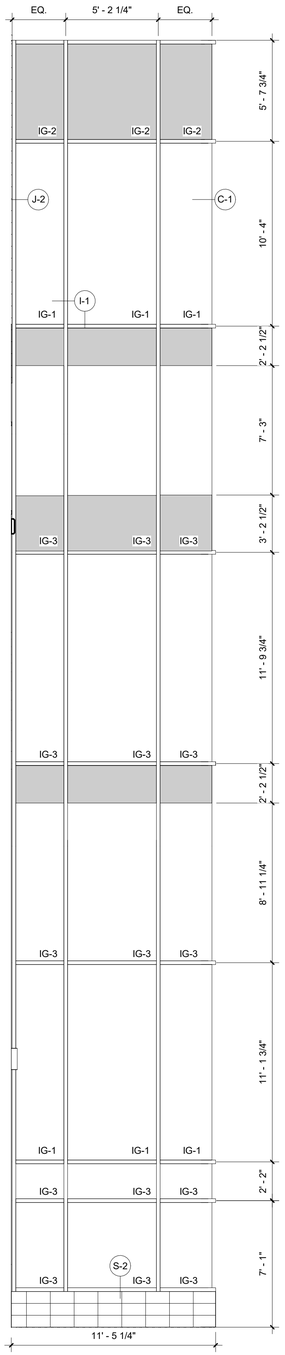
REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 11-12-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
A7.1



6 CURTAIN WALL - CW-4
1/4" = 1'-0"



5 CURTAIN WALL - CW-5
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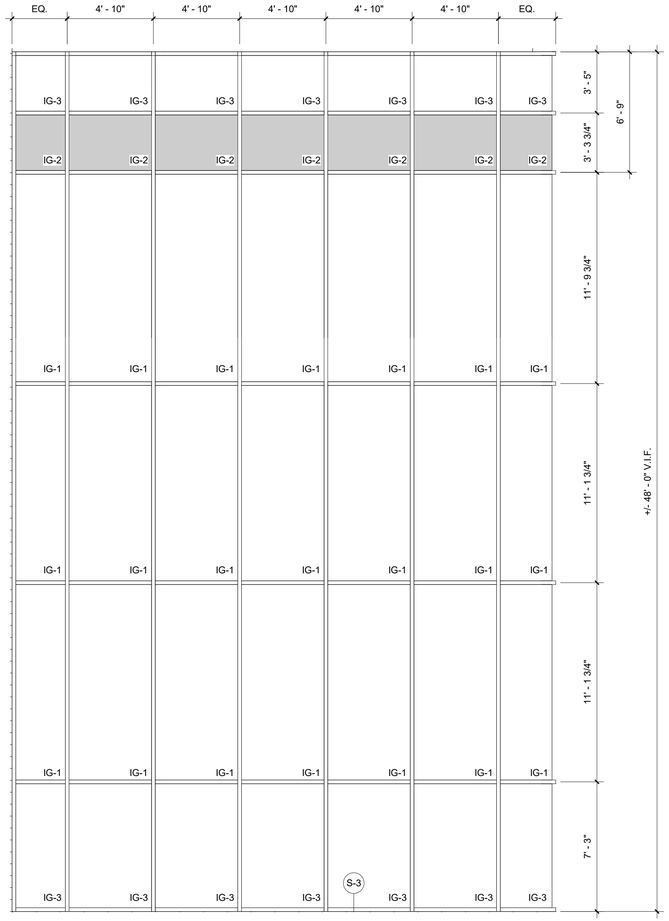
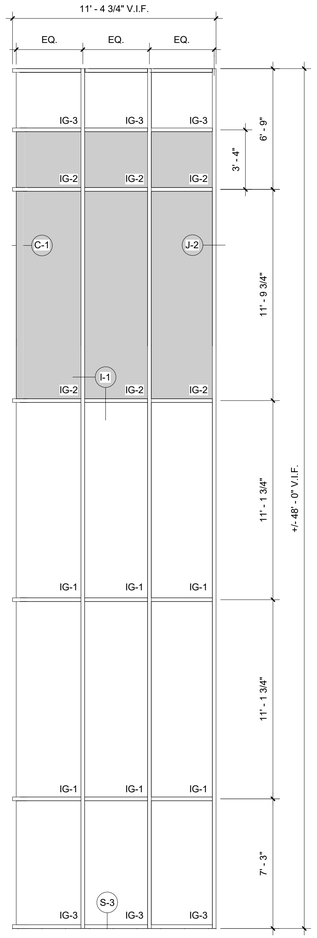
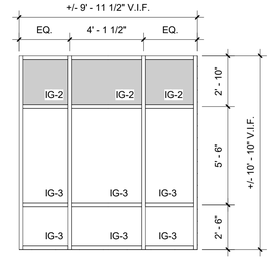


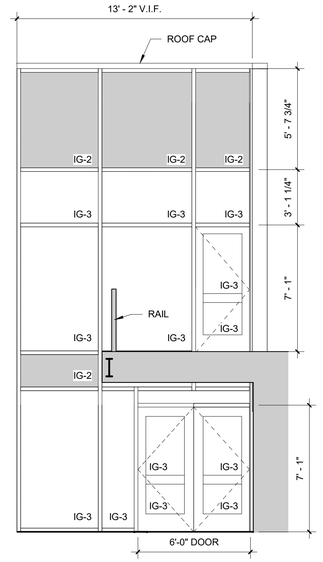
3 CURTAIN ELEV. - CW-3
1/4" = 1'-0"



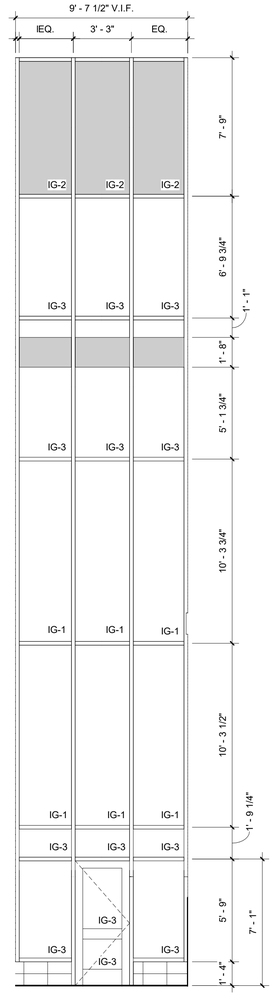
4 CURTAIN WALL ELEV. - CW-2
1/4" = 1'-0"



7 CURTAIN WALL ELEV. - CW-7
1/4" = 1'-0"



1 CURTAIN WALL - PATIO - CW-10
1/4" = 1'-0"



2 CURTAIN WALL ELEV. - CW-6
1/4" = 1'-0"

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CURTAIN WALL DETAILS

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BUFFALO, NEW YORK 14210

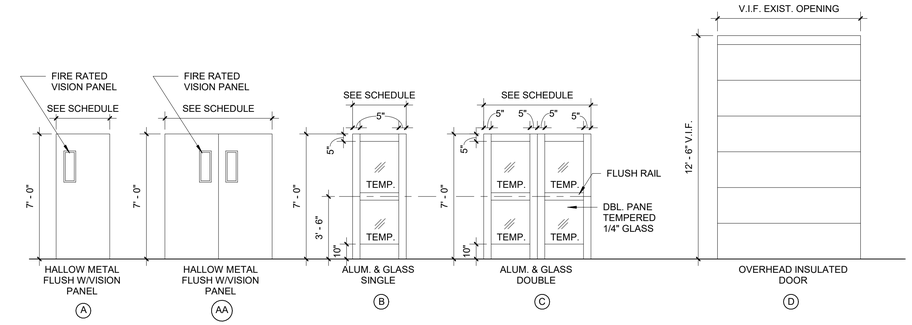
REVISION NUMBER	REVISION DATE

SCALE: 1/4" = 1'-0"
DATE: 11-12-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

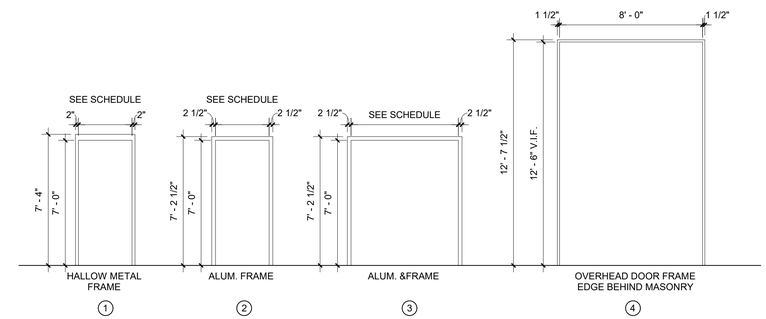
SHEET NUMBER:
A7.2

DOOR NUMBER	HEIGHT	WIDTH	FRAME TYPE	FRAME MATERIAL	DOOR TYPE	DOOR MATERIAL	FIRE RATING	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HARDWARE
01	7'-0"	3'-0"	2	ALUM.	B	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
02	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
03	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
04	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
05	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
06	7'-0"	3'-0"	1	STEEL	A	STEEL	NA	H4	J4	S3	PASSAGE / PANIC
07	7'-0"	3'-0"	1	STEEL	A	STEEL	NA	H4	J4	S2	LOCK SET / PANIC
08	7'-0"	3'-0"	1	STEEL	A	STEEL	NA	H4	J4	S3	PASSAGE / PANIC
10	7'-0"	3'-0"	1	STEEL	A	STEEL	NA	H2	J2	S2	LOCK SET / PANIC
10A	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
11	7'-0"	6'-0"	3	ALUM.	C	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
12	7'-0"	6'-0"	3	ALUM.	C	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
12A	7'-0"	6'-0"	3	ALUM.	C	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
13	7'-0"	6'-0"	3	ALUM.	C	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
13A	7'-0"	6'-0"	3	ALUM.	C	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
20	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S2	PASSAGE / PANIC
21	7'-0"	3'-0"	1	STEEL	A	STEEL	NA	H4	J4	S3	PASSAGE / PANIC
23	7'-0"	6'-0"	1	STEEL	AA	STEEL	NA	H4	J4	S3	PASSAGE / PANIC
24	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
25	7'-0"	6'-0"	3	ALUM.	C	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
26	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC
27	7'-0"	3'-0"	2	ALUM.	B	ALUM. & GLASS	NA	H1	J1	S1	LOCK SET / PANIC
28	7'-0"	3'-0"	1	STEEL	A	STEEL	2-HOUR	H2	J2	S3	PASSAGE / PANIC

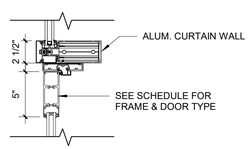
3 DOOR SCHEDULE
1 1/2" = 1'-0"



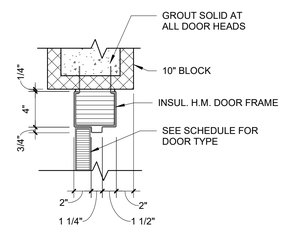
1 DOOR ELEVATIONS
1/4" = 1'-0"



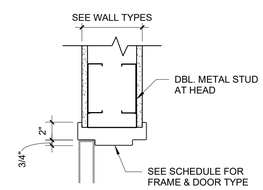
2 FRAME ELEVATIONS
1/4" = 1'-0"



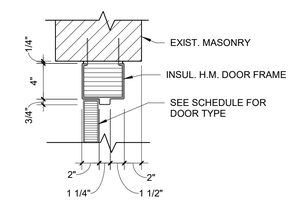
H1 C.W. - DOOR HEAD
1 1/2" = 1'-0"



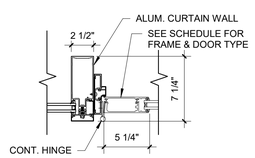
H2 DOOR HEAD
1 1/2" = 1'-0"



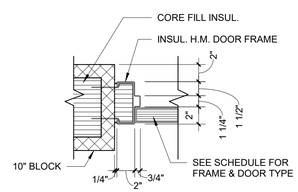
H3 DOOR HEAD - METAL STUD
1 1/2" = 1'-0"



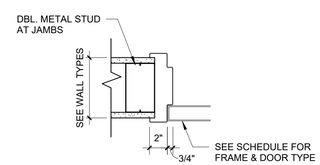
H4 DOOR HEAD - EXIST. MASONRY
1 1/2" = 1'-0"



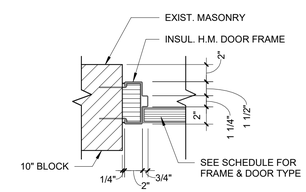
J1 C.W. - DOOR JAMB
1 1/2" = 1'-0"



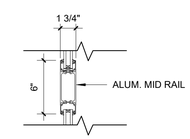
J2 DOOR JAMB
1 1/2" = 1'-0"



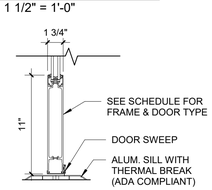
J3 DOOR JAMB - METAL STUD
1 1/2" = 1'-0"



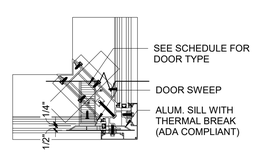
J4 DOOR JAMB - EXIST. MASONRY
1 1/2" = 1'-0"



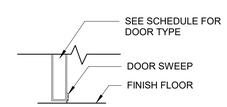
M1 DOOR MID RAIL
1 1/2" = 1'-0"



S1 C.W. - DOOR SILL
1 1/2" = 1'-0"



S2 DOOR SILL - THRESHOLD
1 1/2" = 1'-0"



S3 DOOR SILL
1 1/2" = 1'-0"

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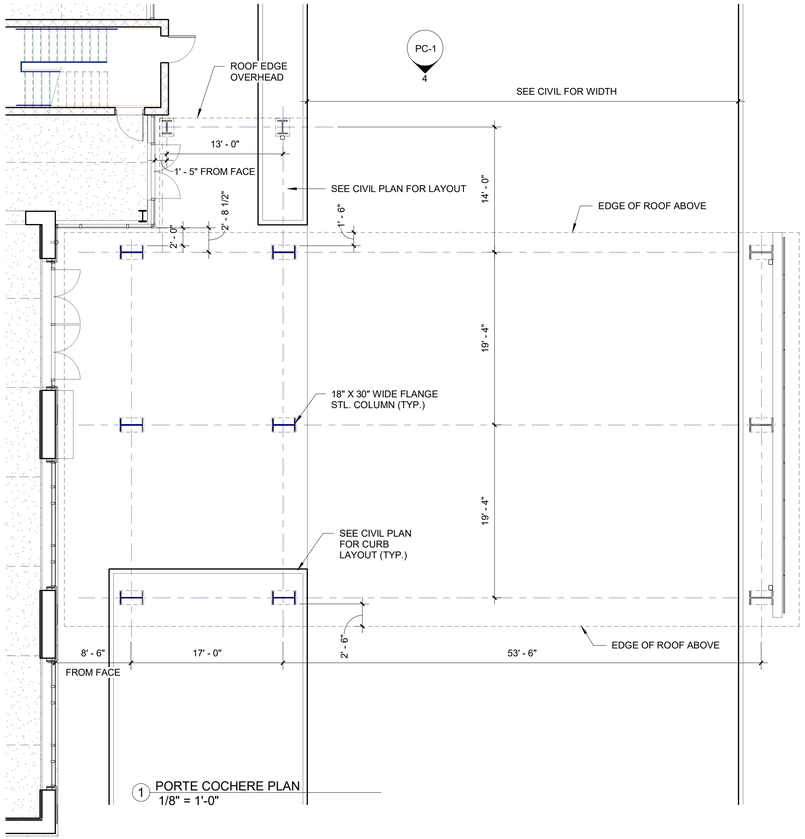
DOOR SCHEDULE, DOOR FRAME AND ELEVATIONS

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

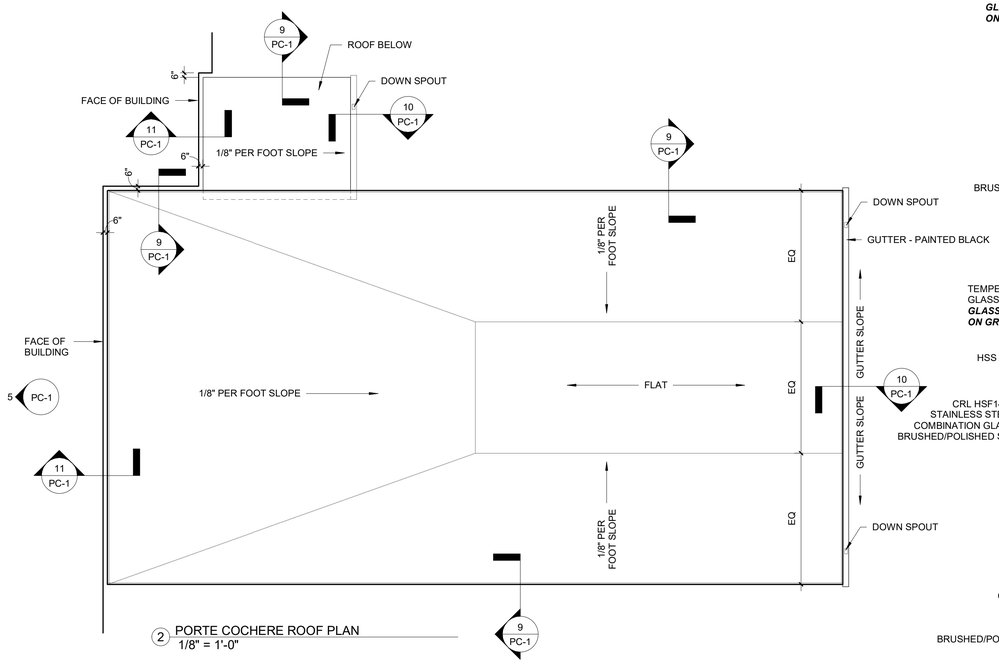
REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 10-22-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

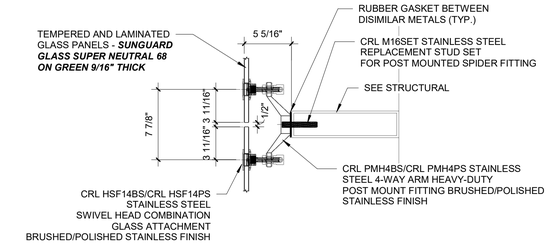
SHEET NUMBER:
A7.3



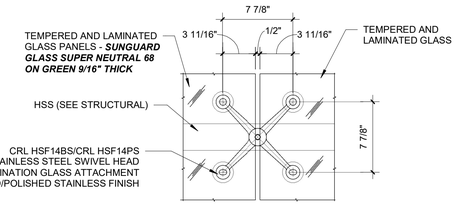
1 PORTE COCHERE PLAN
1/8" = 1'-0"



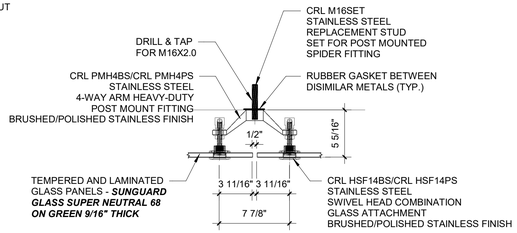
2 PORTE COCHERE ROOF PLAN
1/8" = 1'-0"



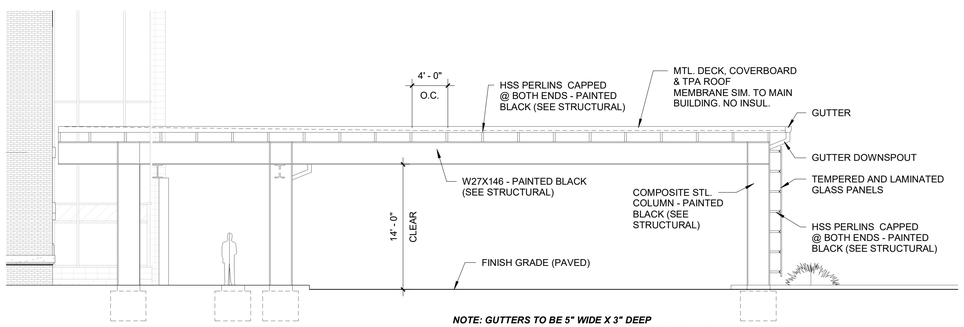
6 SPIDER CLIP SIDE
1 1/2" = 1'-0"



7 SPIDER CLIP FRONT
1 1/2" = 1'-0"

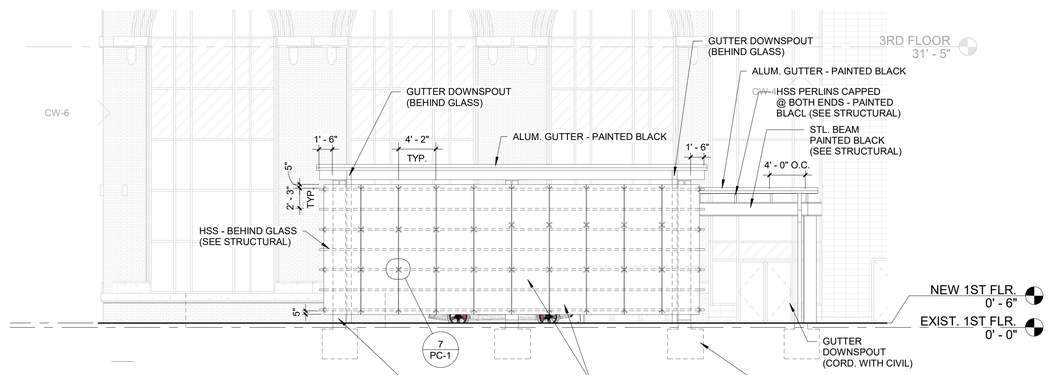


8 SPIDER CLIP TOP
1 1/2" = 1'-0"



NOTE: GUTTERS TO BE 5" WIDE X 3" DEEP ALUM. FULLY WELDED AT ALL SEAMS, PAINTED BLACK TO MATCH EXPOSED STEEL.

3 PORTE COCHERE - EAST ELEVATION
1/8" = 1'-0"



NOTE: GUTTERS TO BE 5" WIDE X 3" DEEP ALUM. FULLY WELDED AT ALL SEAMS, PAINTED.

5 PORTE COCHERE - NORTH ELEVATION
1/8" = 1'-0"

SYSTEMS LIST

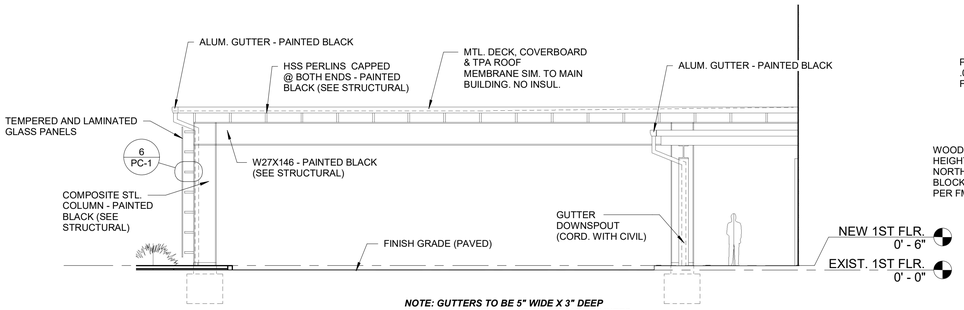
ROOFING:
TREMCO SINGLE PLY TPA/TPO - NO INSULATION.

STEEL COATING:
MINIMUM SURFACE PREP SP6.

PRIMER:
1 COAT *SHERWIN-WILLIAMS* MACROPOXY 646 (FOR MIL CREATION AND CORROSION RESISTANCE) DIRECT TO METAL; 1 TO 1 RATIO THIS IS A 2 PART PRODUCT.

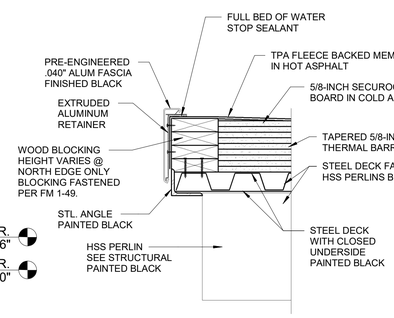
FINISH:
2 COATS *SHERWIN-WILLIAMS* HIGH SOLIDS POLYURETHANE (FOR UV RESISTANCE); 4 TO 1 RATIO THIS IS A 2 PART PRODUCT. SEMI-GLOSS FINISH - BLACK.

GLAZING: *SUNGUARD* TEMPERED AND LAMINATED 9/16" THICK PANELS ON GREEN.

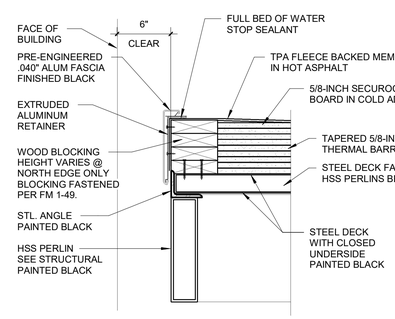


NOTE: GUTTERS TO BE 5" WIDE X 3" DEEP ALUM. FULLY WELDED AT ALL SEAMS, PAINTED.

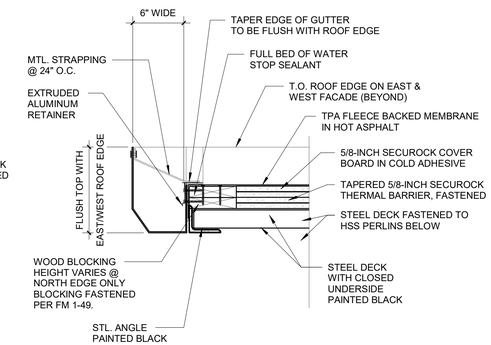
4 PORTE COCHERE WEST ELEVATION
1/8" = 1'-0"



9 ROOF EDGE DETAIL
1 1/2" = 1'-0"



11 ROOF EDGE DETAIL - 2
1 1/2" = 1'-0"



10 ROOF EDGE DETAIL WITH GUTTER
1 1/2" = 1'-0"

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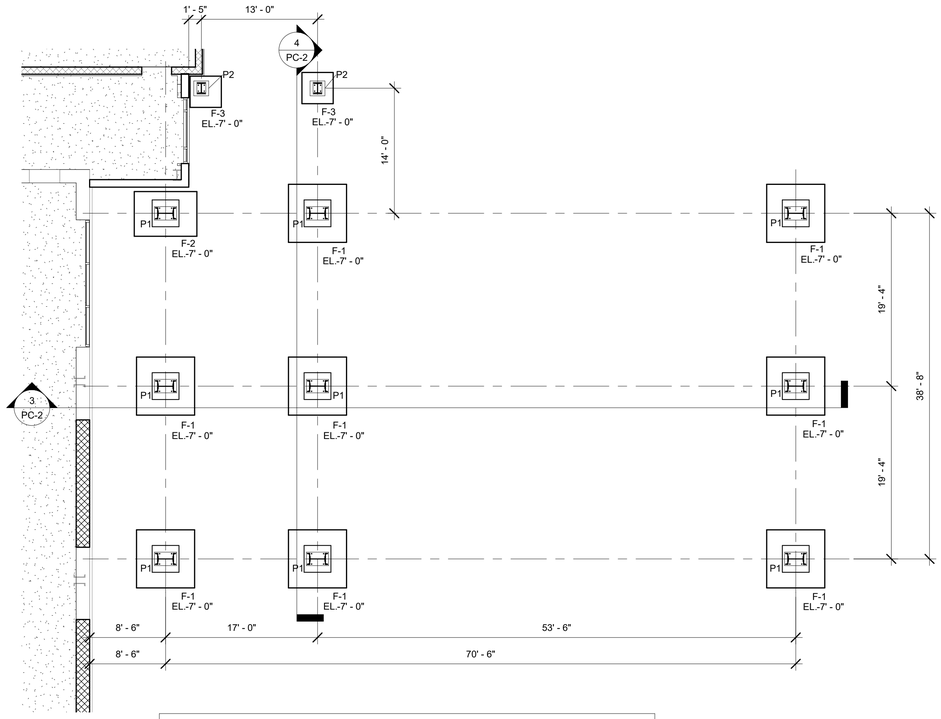
PORTE COCHERE

POWER HOUSE BUILDING
140 LEE STREET
BUFFALO, NEW YORK 14210

REVISION NUMBER	REVISION DATE

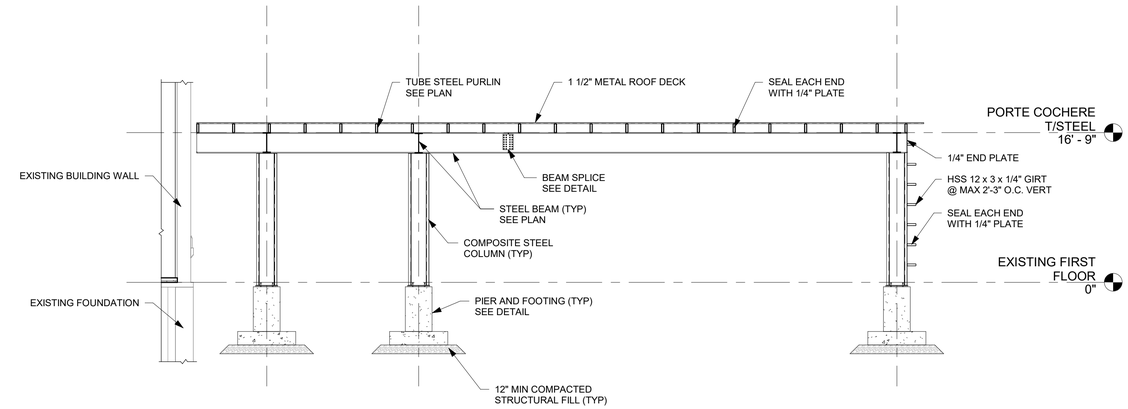
SCALE: As indicated
DATE: 03-05-19
DRAWN BY: CJC
PROJECT NUMBER: 18-147

SHEET NUMBER:
PC-1

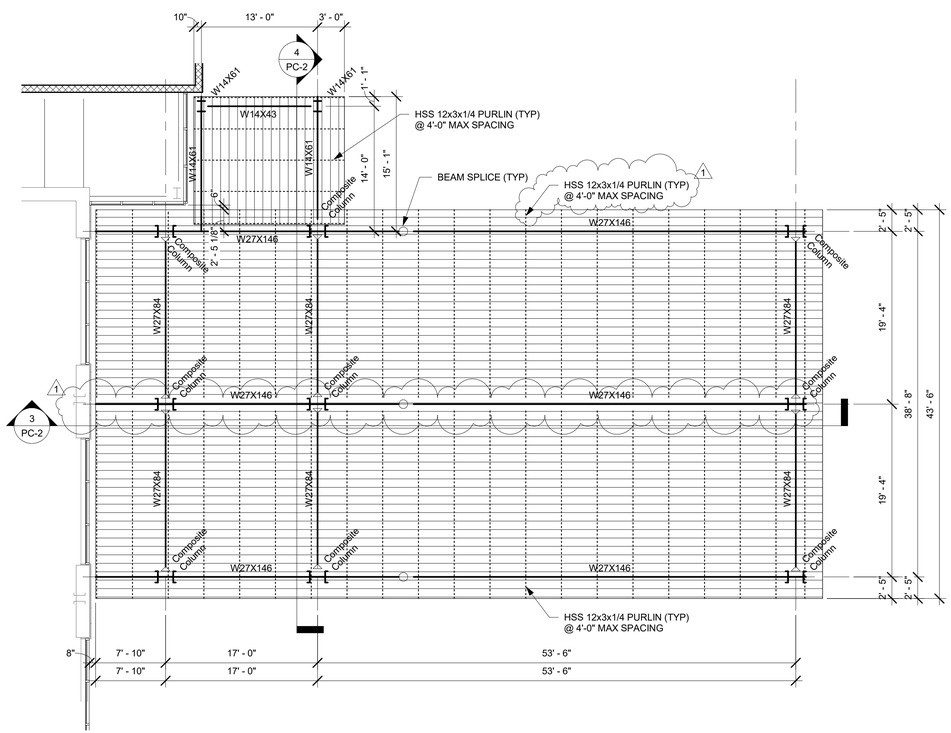


FOOTING SCHEDULE					
Type Mark	Count	Length	Width	Foundation Thickness	Description
F-1	8	6' - 6"	6' - 6"	1' - 6"	(7) #5 EW
F-2	1	5' - 0"	7' - 0"	1' - 6"	(5) #5 LONG & (7) #5 SHORT
F-3	2	3' - 6"	3' - 6"	1' - 0"	(5) #5 EW

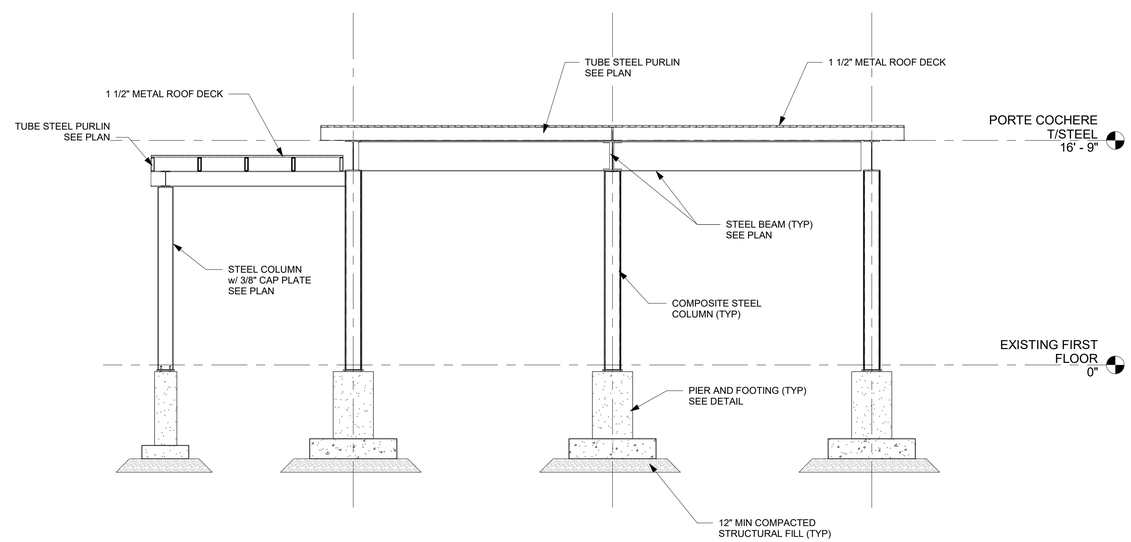
1 PORTE COCHERE FOUNDATION PLAN
1/8" = 1'-0"



3 PORTE COCHERE SECTION 1
1/8" = 1'-0"



2 PORTE COCHERE FRAMING PLAN
1/8" = 1'-0"



4 PORTE COCHERE SECTION 2
3/16" = 1'-0"

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PORTE COCHERE PLANS AND SECTIONS

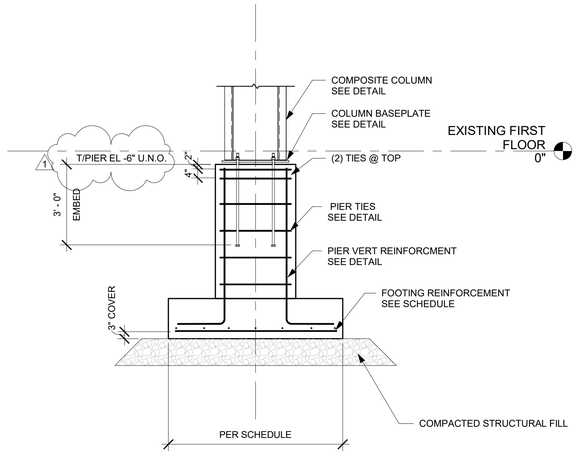
OSC POWERHOUSE

140 LEE STREET
BUFFALO, NY

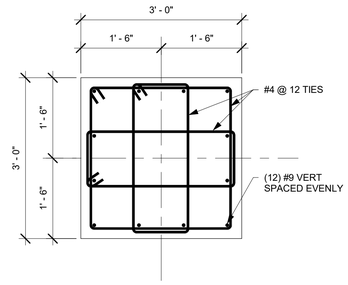
REVISION NUMBER	REVISION DATE
1	05/15/2019

SCALE: As indicated
DATE: 02.07.2019
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

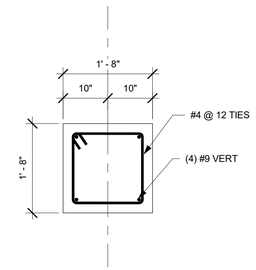
SHEET NUMBER:
PC-2



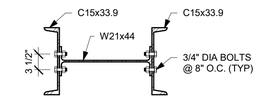
1 TYPICAL PIER AND FOOTING DETAIL
3/8" = 1'-0"



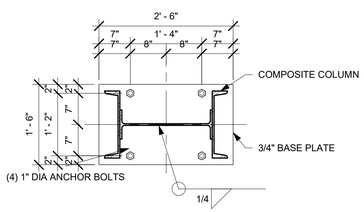
2 PIER P1 DETAIL
3/4" = 1'-0"



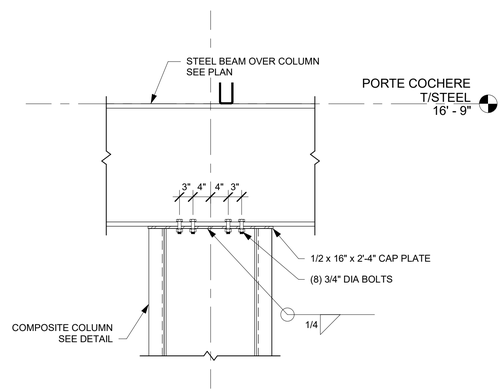
10 PEIR P2 DETAIL
3/4" = 1'-0"



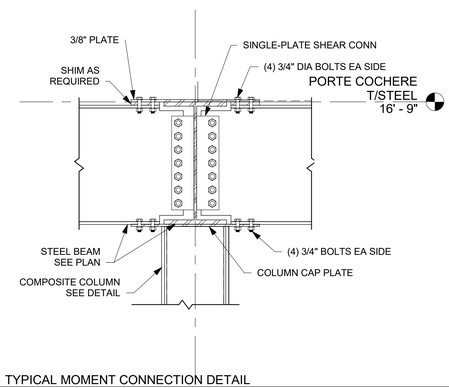
3 COMPOSITE COLUMN DETAIL
3/4" = 1'-0"



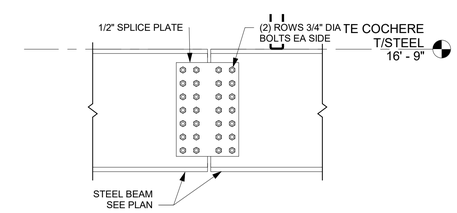
4 COMPOSITE COLUMN BASEPLATE DETAIL
3/4" = 1'-0"



5 TYPICAL BEAM OVER COMPOSITE COLUMN DETAIL
3/4" = 1'-0"



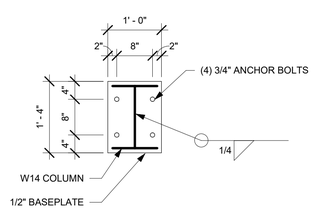
6 TYPICAL MOMENT CONNECTION DETAIL
3/4" = 1'-0"



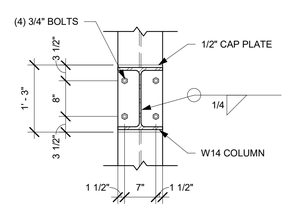
7 TYPICAL BEAM SPLICE DETAIL
3/4" = 1'-0"

PORTE COCHERE NOTES

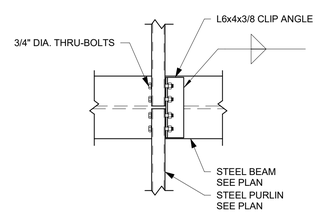
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB. VERIFICATION OF EXISTING DIMENSIONS AND CONDITIONS SHALL BE DONE PRIOR TO PREPARATION OF SHOP DRAWINGS.
2. THESE DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND CIVIL DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMENCMENT OF WORK.
3. DEMOLISH EXISTING CONCRETE STRUCTURES IN AREA OF PORTE COCHERE. FILL AREA UP TO BOTTOM OF FOUNDATIONS WITH STRUCTURAL FILL COMPACTED TO 95% IN ACCORDANCE WITH NOTES ON S.001.
4. ALL STEEL SHALL BE FINISHED WITH ONE OF THE FOLLOWING METHODS;
   A. ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. PROVIDE MINIMUM 2.0 OZ/SQ. FT. GALVANIZING COATING. FASTENERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. ALL STEEL SHALL RECIEVE A POWDER COAT FINISH.
   B. ALL STEEL SHALL BE FINISHED WITH COATING SYSTEM AFTER ERECTION. REFER TO COATING SYSTEM ON DRAWING PC-1.



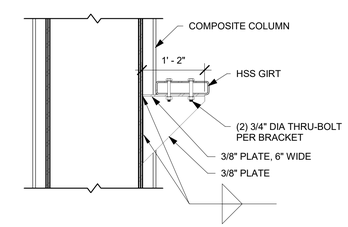
8 W14 BASEPLATE DETAIL
3/4" = 1'-0"



9 W14 CAP PLATE DETAIL
3/4" = 1'-0"



22 TYPICAL PURLIN CONNECTION DETAIL
3/4" = 1'-0"



33 TYPICAL GIRT CONNECTION DETAIL
3/4" = 1'-0"

GENERAL NOTES:

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PORTE COCHERE NOTES AND DETAILS

OSC POWERHOUSE

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	05/15/2019

SCALE: As indicated
DATE: 02.07.2019
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
PC-3

NYSBC 2015 / ASCE 7-10 LOADING

FLOOR LIVE LOADS

FIRST FLOOR LOBBY:	100 PSF
SECOND FLOOR LOBBY:	100 PSF
OFFICE SPACE:	80 PSF
RETAIL SPACE:	100 PSF
RESIDENTIAL:	40 PSF
LIGHT MANUFACTURING:	125 PSF

ROOF SNOW LOAD:	35 PSF
GROUND SNOW LOAD (Pg):	50
EXPOSURE FACTOR (Ce):	1.0
IMPORTANCE FACTOR (Is):	1.0
THERMAL FACTOR (Ct):	1.0

ROOF LIVE LOAD: 20 PSF, 300 LB CONCENTRATED

WIND LOAD:

WIND SPEED FOR RISK CATEGORY II (V):	115 MPH
EXPOSURE CATEGORY:	B

MAIN WIND FORCE RESISTING SYSTEM LOADING PER ASCE TABLE 27.6:

WALLS	L/B=0.5	L/B=1.0	L/B=2.0
TOP:	23.5	23.5	20.4
BASE:	20.5	20.5	17.4

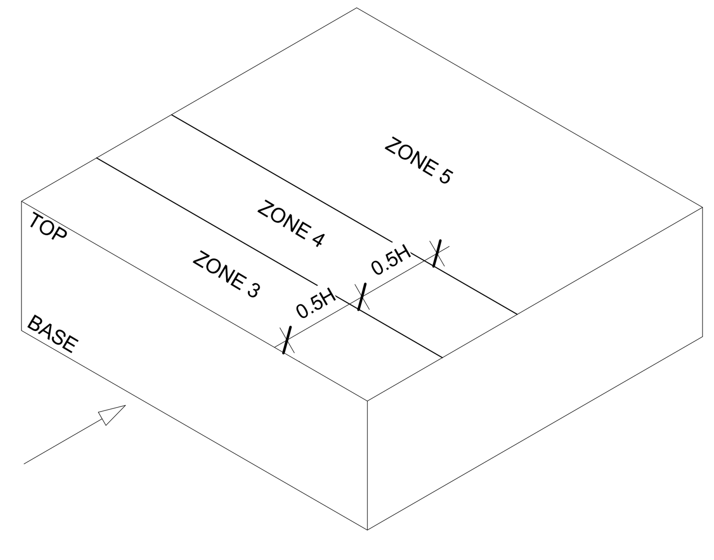
ROOF	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
MIN:	NA	NA	-31.8	-28.4	-23.3
MAX:	NA	NA	0.0	0.0	0.0

COMPONENTS AND CLADDING LOADING PER ASCE FIGURE 30.5-1:

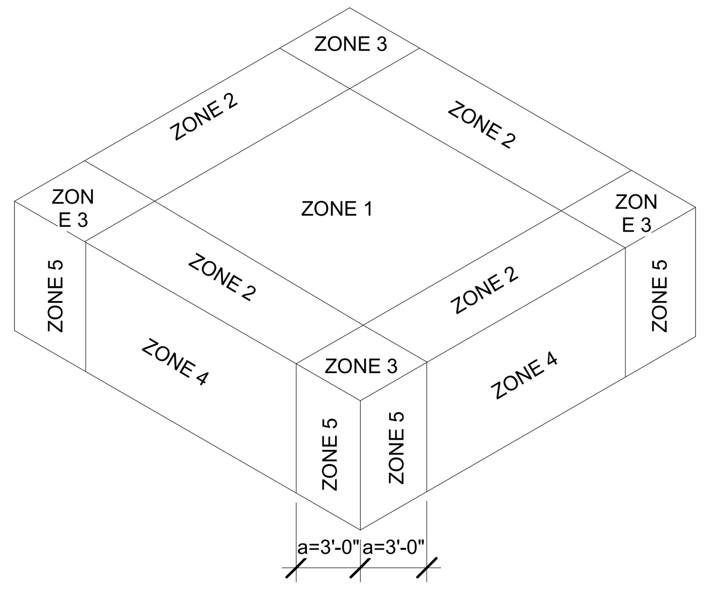
ZONE	WIND AREA	MAX LOAD	MIN LOAD
1	10	16.0	-26.7
1	20	16.0	-26.0
1	50	16.0	-25.1
1	100	16.0	-24.4
2	10	16.0	-44.7
2	20	16.0	-40.0
2	50	16.0	-33.7
2	100	16.0	-28.9
3	10	16.0	-67.3
3	20	16.0	-55.8
3	50	16.0	-40.4
3	100	16.0	-28.9
4	10	26.7	-28.9
4	20	25.4	-27.7
4	50	23.9	-26.1
4	100	22.6	-24.9
4	500	19.8	-22.2
5	10	26.7	-35.7
5	20	25.4	-33.3
5	50	23.9	-30.1
5	100	22.6	-27.7
5	500	19.8	-22.2

SEISMIC LOAD:

IMPORTANCE FACTOR (Ie):	1.0
SITE COEFFICIENT:	D
SEISMIC ACCELERATION :	Ss=0.208 S1 =0.060
SEISMIC DESIGN CATEGORY:	B
STRUCTURAL SYSTEM:	- STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE R=3.0
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC BASE SHEAR:	STEEL SYSTEMS = 0.045W



MWFRS DIRECTIONAL PROCEDURE



COMPONENTS AND CLADDING WIND ZONE DIAGRAM

CONTRACTOR RESPONSIBILITIES

1. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE AND SHALL NOTIFY ARCHITECT/ ENGINEER IN WRITING OF DISCREPANCIES. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
2. COORDINATE STRUCTURAL WORK WITH ALL OTHER TRADES.
3. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURE IS STABLE UNTIL ALL STRUCTURAL ELEMENTS ARE INSTALLED PER DOCUMENTS.
4. DO NOT SCALE DRAWINGS

MISCELLANEOUS

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB. VERIFICATION OF EXISTING DIMENSIONS AND CONDITIONS SHALL BE DONE PRIOR TO PREPARATION OF SHOP DRAWINGS.
2. ALL OPENINGS THROUGH SLABS AND WALLS ARE NOT SHOWN. PROVIDE UNIT PRICES FOR ADDITIONAL FRAMING AND REINFORCING.
3. CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, WASHES, DRIPS, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS.
4. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE OF NEW YORK STATE, THE AISC CODE, THE ACI BUILDING CODE (ACI 318, ACI 530), THE AMERICAN WELDING SOCIETY CODE AND ALL OTHER APPLICABLE ASTM STANDARDS. IN CASES OF CONFLICT, THE MOST STRINGENT SHALL GOVERN.
5. TYPICAL DETAILS APPLY TO ALL DRAWINGS AND SHALL BE USED EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

FOUNDATIONS

1. FOUNDATION DESIGN BEARING PRESSURES:
   a. FOUNDATIONS ON SOIL: 3,000 PSF (PRESUMPTIVE)
2. NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS WHEN THERE IS A QUESTION OF BEARING CAPACITY.
3. SET FOOTINGS ON FIRM, UNDISTURBED, NATURAL, BEARING SOILS, OR AS SHOWN IN THE DRAWINGS.
4. EXCAVATION SHALL BE DEWATERED AS REQUIRED DURING THE CONSTRUCTION OF THE FOUNDATION.
5. VERIFY ALL EXISTING CONDITIONS AT THE SITE. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN; NOTIFY ENGINEER IMMEDIATELY.
6. CARE SHALL BE TAKEN DURING THE EXCAVATION AND CONSTRUCTION OF NEW FOUNDATIONS SO AS NOT TO DISTURB EXISTING ADJACENT CONSTRUCTION. SHORE AND/OR BRACE EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW WORK.
7. THE G.C. IS REQUIRED TO COORDINATE WITH THE OWNERS INSPECTOR TO PROVIDE A MINIMUM OF THREE (3) IN-PLACE SOIL DENSITY TESTS PER 8" LIFT OF COMPACTED FILL TAKEN AT OPPOSITE CORNERS, STARTING AT FOOTING ELEVATIONS, BY USING SAND CONE METHOD PER ASTM D-1556 OR NUCLEAR METHOD AS PER ASTM D-2922. RESULT TO BE FORWARDED TO THE ARCHITECT FOR ACCEPTANCE PRIOR TO PROCEEDING WITH WORK.
8. ALL FILL & BACKFILL WITHIN BUILDING TO BE NYSDOT SUBBASE COURSE, TYPE 2, OR APPROVED EQUAL. COMPACT FILL WITHIN BUILDING LIMITS TO 95% MINIMUM COMPACTION PER ASTM D-1557, AND FILL EXTERIOR OF BUILDING TO 90% MINIMUM COMPACTION PER ASTM D-1557

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST AMERICAN CONCRETE NSTITUTE ACI-301, 305, 306, 315, 318, AND 347.
2. COMPRESSIVE STRENGTH OF CONCRETE IN 28 DAYS:
   a. SLAB-ON-GRADE: 4,000 PSI
   b. FOUNDATIONS 3,000 PSI
3. WATER/CEMENT RATIO SHALL NOT EXCEED, UNLESS SUBSTANTIATED BY CERTIFIED TEST RESULTS:

COMP. STRENGTH	NON AIR ENTRAINED	AIR ENTRAINED
3,000	0.58	0.46
4,000	0.55	0.44

4. SLUMP SHALL BE 5" (ASTM C-143). CONTRACTOR MAY ADD SUPERPLASTICIZER TO CONCRETE MIX TO OBTAIN A MAXIMUM 7" SLUMP.
5. REINFORCING STEEL BARS: ASTM A-615, GRADE 60
6. WELDED WIRE FABRIC: ASTM A-185
7. PROVIDE 3" REINFORCING STEEL COVER WHERE CAST AGAINST AND EXPOSED TO EARTH
8. PROVIDE 2" REINFORCING STEEL COVER WHERE FORMED, BUT EXPOSED TO EARTH.
9. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICERS SHALL CONTAIN 6% (+2%) ENTRAINED AIR BY VOLUME.
10. CALCIUM CHLORIDE OR CHLORIDE CONTAINING ADMIXTURES WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.CALCIUM CHLORIDE OR CHLORIDE CONTAINING ADMIXTURES WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
11. WALL CONSTRUCTION JOINTS ARE TO BE 60'-0" ON CENTER, UNLESS NOTED OTHERWISE.
12. LAP ALL REINFORCING BAR SPLICES 36 BAR DIAMETERS MINIMUM.
13. BEND ALL HORIZONTAL BARS 36 BAR DIAMETERS PAST EACH CORNER OR PROVIDE EQUIVALENT CORNER BARS MATCHING HORIZONTAL REINFORCING.
14. REINFORCING BAR SPLICES AND EMBEDMENT LENGTH ARE TO CONFORM TO THE LATEST CRSI HANDBOOK COMPLYING WITH ACI 318 CODE OF LATEST ISSUE, UNLESS OTHERWISE NOTED.
15. PROVIDE TWO (2) #5 BARS AROUND ALL OPENINGS IN CONCRETE WALLS.

REINFORCED MASONRY

1. ALL MASONRY TO CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI530.1 AND THE INTERNATIONAL BUILDING CODE
2. GROUT TO FILL CORES PER ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI IN 28 DAYS
3. FOLLOW ACI RECOMMENDATIONS FOR HIGH LIFT, COLD WEATHER OR WARM WEATHER GROUTING REQUIREMENTS.
4. CONCRETE MASONRY UNITS PER ASTM C90, TYPE I OR II.
5. ASTM C270 TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI FOR ALL MASONRY WALLS.
6. REINFORCING BARS PER ASTM A615, GRADE 60.
7. ALL MASONRY UNITS TO HAVE GALVANIZED HORIZONTAL REINFORCEMENT AS FOLLOWS:
   a. 9 GAGE SIDE AND CROSS RODS SPACED 16" O.C. VERTICALLY FOR ALL MASONRY WALLS, LADDER TYPE
8. ALL CORES WITH REINFORCEMENT TO BE FILLED SOLID WITH GROUT AND CONSOLIDATED IN PLACE BY VIBRATION TO INSURE COMPLETE FILLING OF CELLS.
9. LAY MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN STARTING COURSE OF FOOTING AND IN ALL COURSES OF COLUMN AND PILASTERS AND WHERE ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT.
10. PROVIDE 16" OF SOLID MASONRY UNDER WALL BEARING BEAMS AND JOIST GIRDERS UNLESS NOTED OTHERWISE.
11. ALL CORNERS TO BE TIED BY MASONRY BOND.
12. GROUT CORES SOLID A MINIMUM OF ONE COURSE BELOW ANY CHANGE IN WALL THICKNESS.
13. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 25'. COORDINATE WITH LOCATIONS INDICATED ON ARCHITECTURAL DRAWINGS.
14. AN INDEPENDENT TESTING LABORATORY SHALL BE RETAINED TO PERIODICALLY INSPECT AND PERFORM MATERIAL TESTING OF MASONRY MATERIALS AND CONSTRUCTION TO CONFORM WITH THE BUILDING CODE.

INTERIOR SLAB NOTES:

1. PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE WHERE SHOWN ON DRAWINGS. WHERE NOT SHOWN ON DRAWINGS MAX JOINT SPACING TO BE 36 TIMES SLAB THICKNESS.
2. PLACE REINFORCING AT MIDPOINT OF SLAB DEPTH.
3. APPLY TROWEL FINISH TO EXTERIOR SLABS EXPOSED TO VIEW
4. FINISH SURFACE TO SPECIFIED FLATNESS REQUIREMENTS
   a. OVERALL VALUE OF FLATNESS OF FF25 AND LEVELNESS FL20
   b. MINIMUM LOCAL VALUES OF FF17 AND FL15
   c. WITHIN 24 HOURS OF SLAB FINISHING MEASURE COMPLIANCE TO FF AND FL OF SLAB PER ASTM E 1155
5. COORDINATE WITH ARCH. / PLUMBING DRAWING FOR ALL REQUIRE FLOOR DRAIN SLOPES (WHERE APPLICABLE) PRIOR TO SLAB POURS

STRUCTURAL STEEL

1. DETAIL, FABRICATED AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC 14th EDITION CONSTRUCTION MANUAL. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
2. MATERIALS:
   a. STRUCTURAL W-SHAPES ASTM A992; OTHER SHAPES AND PLATES - ASTM A36.
   b. PIPE COLUMNS - ASTM A 53 GRADE B - TYPE E OR S, SCHEDULE 40.
   c. TUBE COLUMNS - ASTM A 500 - GRADE B - Fy - 46 KSI.
   d. BOLTS - CONNECTIONS ASTM A325.
   e. ANCHOR RODS: ASTM F1554.
   f. WELDING ELECTRODES: E70XX SERIES.
   g. PAINT - APPROVED PRIMER - 2 MILS THICK.
3. SHOP CONNECTIONS: WELDED UNLESS OTHERWISE NOTED.
4. FIELD CONNECTIONS: 3/4" A325 BOLTS, AS REQUIRED.
5. ALL WELDING BY CERTIFIED WELDERS AND IN ACCORDANCE WITH AWS D1.1-94, STRUCTURAL WELDING CODE.
6. PROVIDE FRAMED BEAM SHEAR CONNECTIONS PER AISC 13TH EDITION PART 10. FOR BOLTED DOUBLE ANGLE CONNECTIONS USE 3/4" BOLTS.
7. STRUCTURAL STEEL CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS AT THE SITE PRIOR TO BEGINNING ANY WORK. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN; NOTIFY ARCHITECT IMMEDIATELY.
8. CARE SHALL BE TAKEN DURING THE ERECTION OF STRUCTURAL STEEL SO AS NOT TO DISTURB EXISTING ADJACENT CONSTRUCTION. SHORE AND/OR BRACE EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW WORK.
9. PROVIDE HOLES IN THE STRUCTURAL STEEL AS REQUIRED TO ATTACH THE WOOD BLOCKING. SEE ARCHITECTURAL DRAWINGS.

STEEL PAINTING

1. ALL EXISTING STEEL SHALL BECLEANED PRIOR TO APPLICATION OF NEW COATING SYSTEM.
2. CLEAN EXISTING STEEL IN ACCORDANCE WITH SSPC-SP10 "NEAR-WHITE BLAST CLEANING" OR SSPC-SP11 "POWER TOOL CLEANING TO BARE METAL".
3. ALL STEEL FRAMING SHALL BE PAINTED WITH THE FOLLOWING PRODUCTS BY SHERWIN WILLIAMS, OR EQUAL. COATINGS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMENDATIONS.
   A. PRIME COAT --> PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER
   B. INTERMEDIATE COAT --> PRO INDUSTRIAL DTM ACRYLIC
   C. TOP COAT --> PRO INDUSTRIAL DTM ACRYLIC (COLOR SELECTION BY OWNER)

FLOOR FRAMING DESIGN

1. SECOND AND THIRD FLOOR FRAMING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK AND ENGAGED BY THE STEEL FABRICATOR.
2. THE CALCULATIONS AND DRAWINGS SHALL BE PREPARED BY THE LICENSED PROFESSIONAL ENGINEER IN A NEAT AND LEGIBLE MANNER. THE PREPARED CALCULATIONS SHALL INCLUDE A DESIGN SUMARY PAGE TO LIST ALL DESIGN LOADS, MOST CURRENT DESIGN STANDARDS, MATERIAL SPECIFICATIONS, AND DESIGN CRITERIA USED IN THE CALCULATIONS.
3. FLOOR FRAMING SHALL BE DESIGNED FOR ALL DEAD LOADS, COLLATERAL LOADS, AND, LIVE LOADS IN ACCORDANCE WITH THE BUILIDNG CODE OF NEW YORK STATE. FLOOR DESIGN SHALL BE FOR A LIVE LOAD OF 80 PSF AT OFFICE AND RETAIL SPACES AND 40 PSF AT RESIDENTIAL SPACES (NOTE: ALLOW FOR TWO STORY RESIDENTIAL SPACE AT SECOND FLOOR).
4. DESIGN SHALL INCLUDE FRAMING CONNECTIONS TO EXISTING BUILDING COLUMNS.

COLD FORMED METAL FRAMING

1. ALL COLD FORMED METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND NAAM ML/SF 540, "LIGHTWEIGHT STEEL FRAMING SYSTEMS MANUAL".
2. ALL STRUCTURAL MEMBERS SHALL BE FORMED WITH CORROSION RESISTANT STEEL, ASTM A-446, WITH A YIELD STRENGTH OF 40 KSI FOR CSJ JOISTS AND STUDS, AND 33 KSI FOR TSB RUNNERS.
3. ALL LIGHT METAL PANELS BEARING ON CONCRETE ARE TO BE ANCHORED WITH MINIMUM 1-1/4" LONG X 0.145" DIAMETER POWER DRIVEN STUDS HAVING STEEL WASHERS AT 2'-0" O.C. MAXIMUM (2 PER PANEL MINIMUM) UNLESS NOTED OTHERWISE
4. ALL STUD WALLS ARE TO HAVE BRIDGING SPACED AT MAXIMUM 4'-0" O.C. VERTICALLY.
5. THE MAXIMUM SPACING OF THE LIGHT METAL STUDS IS TO BE 16" O.C. REFER TO THE ARCHITECTURAL DETAILS FOR STUDS AT CORNERS, WINDOWS, DOOR JAMBS, ETC.

SHOP DRAWINGS

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS
2. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW
3. FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS.
4. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW
5. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR
6. USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY CONTRACTOR IS STRICTLY PROHIBITED

SPECIAL INSPECTIONS - A . CONTRACTORS RESPONSIBILITY

TO FACILITATE SPECIAL INSPECTION AND TESTING SERVICES, THE CONTRACTOR SHALL:
1. FURNISH TO THE SPECIAL INSPECTOR SUCH SAMPLES OF MATERIALS AS MAY BE NECESSARY FOR TESTING PURPOSES.
2. FURNISH SUCH CASUAL LABOR, EQUIPMENT AND FACILITIES AS IS NECESSARY TO OBTAIN AND HANDLE SAMPLES AT THE PROJECT.
3. ADVISE THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW FOR COMPLETION OF TESTS AND FOR THE ASSIGNMENT OF PERSONNEL.
4. PROVIDE AND MAINTAIN, FOR THE SOLE USE OF THE SPECIAL INSPECTOR, ADEQUATE FACILITIES FOR SAFE STORAGE AND PROPER CURING OF CONCRETE TEST CYLINDERS ON THE PROJECT SITE FOR THE FIRST 24 HOURS AS REQUIRED BY ASTM C31-69.
5. MAINTAIN RECORDS AT THE PROJECT SITE SHOWING THE DATE AND EXTENT OF EACH CONCRETE PLACEMENT.
6. PROVIDE SAFE ACCESS TO ITEMS TO BE INSPECTED AND/OR TESTED. THIS INCLUDES SHEETING AND LADDERS FOR DEEP EXCAVATION; SCAFFOLDING AND LADDERS FOR INSPECTION AND TESTING OF SUPERSTRUCTURE ITEMS.
7. IF ANY PORTION OF THE WORK SHOWS LOW TEST RESULTS, EVIDENCE OF DETRIMENTAL PLACING OR CURING CONDITIONS, THE OWNER MAY REQUIRE ADDITIONAL TESTING, COMPACTION, CORED SAMPLES OR RE-WELDING AT THE CONTRACTOR'S EXPENSE.

B. STEEL CONSTRUCTION INSPECTIONS

1. THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL FRAME TO VERIFY COMPLIANCE
2. MATERIAL VERIFICATION REQUIRED AS FOLLOWS:
   a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
   b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.
   c. WELD FILLER MATERIALS: MATERIAL VERIFICATION REQUIRED
3. PERIODIC INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. INSTALLATION OF HIGH-STRENGTH BOLTS
   b. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS
   c. BEARING-TYPE CONNECTIONS
   d. SLIP-CRITICAL CONNECTIONS (CONTINUOUS AND PERIODIC INSPECTIONS)
4. WELDING INSPECTIONS REQUIRED AS FOLLOWS:
   a. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS: CONTINUOUS INSPECTIONS.
   b. MULTI-PASS FILLET WELDS: CONTINUOUS INSPECTIONS.
   c. SINGLE-PASS FILLET WELDS GREATER THAN 5/16 INCH: CONTINUOUS INSPECTIONS.
   d. SINGLE-PASS FILLET WELDS LESS THAN 5/16 INCH: PERIODIC INSPECTIONS.
   e. FLOOR AND DECK WELDS: PERIODIC INSPECTIONS.
   f. VERIFICATION OF WELDABILITY OF REINFORCING STEEL: PERIODIC INSPECTIONS.

C. CONCRETE CONSTRUCTION INSPECTIONS

1. PERIODIC INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.
   b. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706
   c. VERIFYING USE OF REQUIRED DESIGN MIX
   d. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES
   e. ERECTION OF PRECAST CONCRETE MEMBERS
   f. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS
2. CONTINUOUS INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. SHEAR REINFORCEMENT
   b. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.
   c. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ACI 318-14 BUILDING CODE; SECTION 'FREQUENCY OF TESTING'.
      1. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE TAKEN IN ACCORDANCE WITH (1) THROUGH (3)
         a. AT LEAST ONCE A DAY
         b. AT LEAST ONCE FOR EACH 150 yd3 OF CONCRETE
         c. AT LEAST ONCE FOR 5000 ft2 OF SURFACE AREA FOR SLABS OR WALLS
      2. IF TOTAL VOLUME OF CONCRETE IS SUCH THAT THE FREQUENCY OF TESTING WOULD PROVIDE FEWER THAN FIVE STRENGTH TEST FOR A GIVEN CONCRETE MIXTURE, STRENGTH TEST SPECIMENS SHALL BE MADE FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED
   d. CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
   e. APPLICATION OF PRESTRESSING FORCES.
   f. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM

MASONRY INSPECTIONS (LEVEL 1)

1. PERIODIC INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. PROPORTIONS OF SITE-PREPARED MORTAR
   b. CONSTRUCTION OF MORTAR JOINTS
   c. LOCATION OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES
   d. PRESTRESSING TECHNIQUE
   e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES
   f. SIZE AND LOCATION OF STRUCTURAL ELEMENTS
   g. TYPE, SIZE AND LOCATION OF ANCHORS
   h. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT
   i. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F.) OR HOT WEATHER (TEMPERATURE ABOVE 90° F.)
   j. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE
   k. GROUT SPACE IS CLEAN
   l. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES
   m. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS
   n. CONSTRUCTION OF MORTAR JOINTS
2. CONTINUOUS INSPECTIONS DURING TASK ARE REQUIRED FOR:
   a. WELDING OF REINFORCING BARS
   b. GROUT PLACEMENT
   c. GROUTING OF PRESTRESSED BONDED TENDONS
   d. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS

D. SOILS INSPECTIONS

1. REQUIRED FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS.
2. EXCEPTION: DURING PLACEMENT OF FILL LESS THAN 12 INCHES (305 MM) DEEP.

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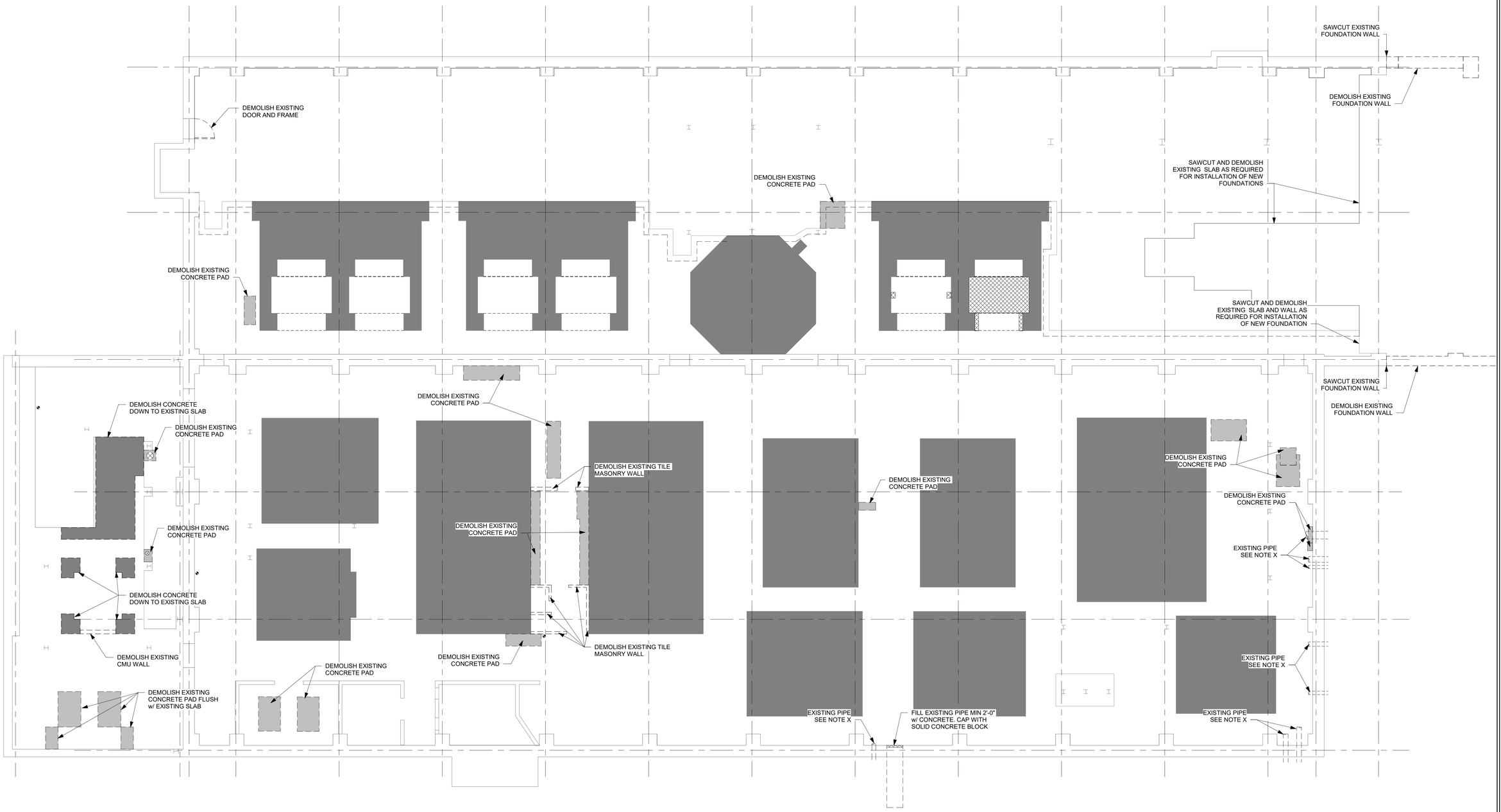
GENERAL NOTES

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 3/32" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.001



BASEMENT DEMOLITION NOTES:

1. DEWATER ALL BASEMENT AREAS. REMOVE ALL DELETERIOUS MATERIALS FROM ALL BASEMENT AREAS.
2. DEMOLISH ALL EXISTING CONCRETE PADS DOWN TO TOP OF EXISTING CONCRETE BASEMENT FLOOR SLAB.
3. CUT EXISTING PIPE BACK FLUSH WITH INTERIOR FACE OF CONCRETE BASEMENT WALL. FILL EXISTING PIPE WITH NON-SHRINK GROUT MINIMUM 1'-0".

1 BASEMENT DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES:

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BASEMENT DEMOLITION PLAN

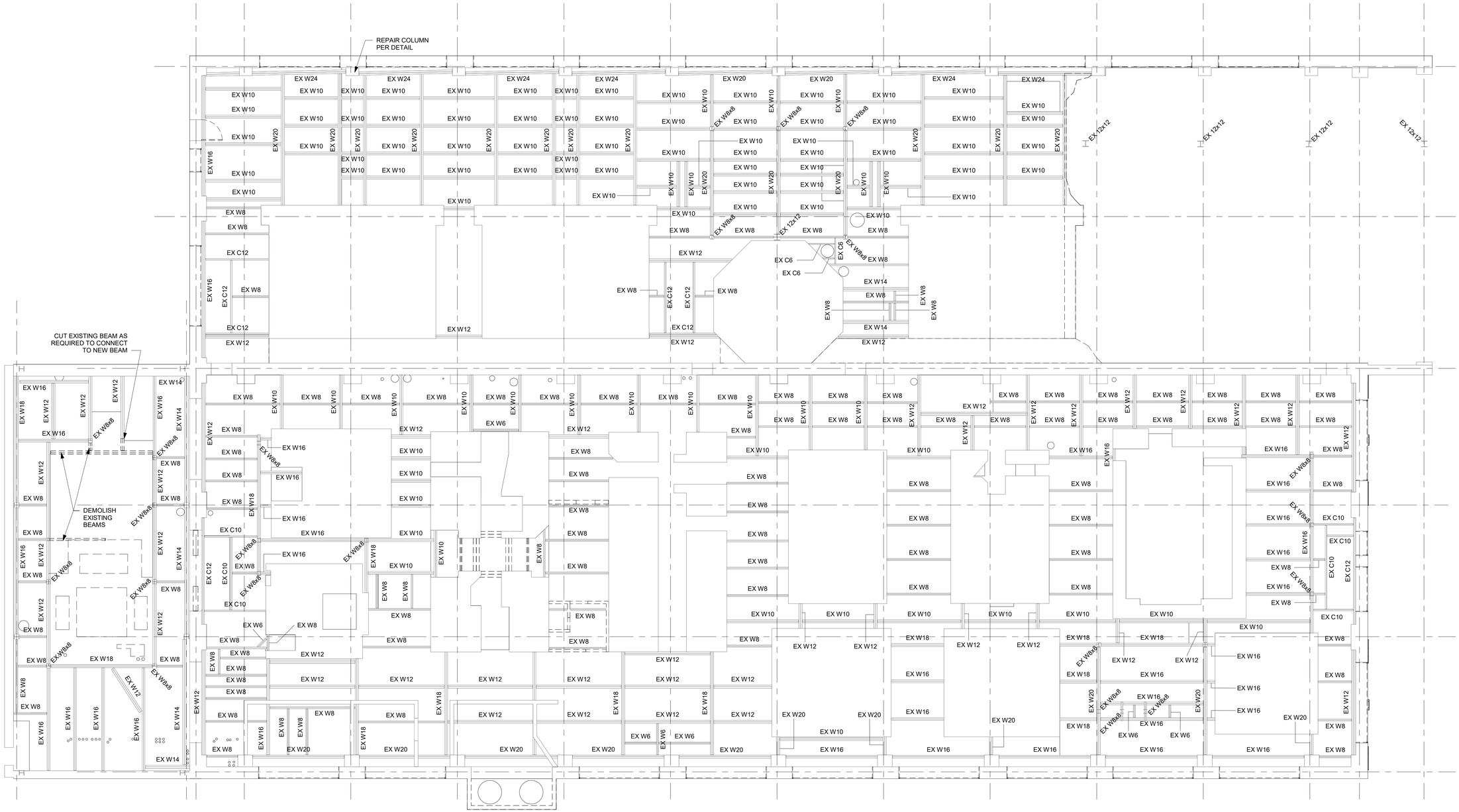
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.100



PLAN NOTES:

1. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001. EXISTING STEEL ELEMENTS NOTED AS "EX" ON PLAN. SUPLIMENTAL STEEL ELEMENTS NOT INDICATED ON PLAN SHALL BE REMOVED PRIOR TO CLEANING AND PAINTING OF EXISTING STEEL.

1 BASEMENT STEEL AND REPAIR PLAN
1/8" = 1'-0"

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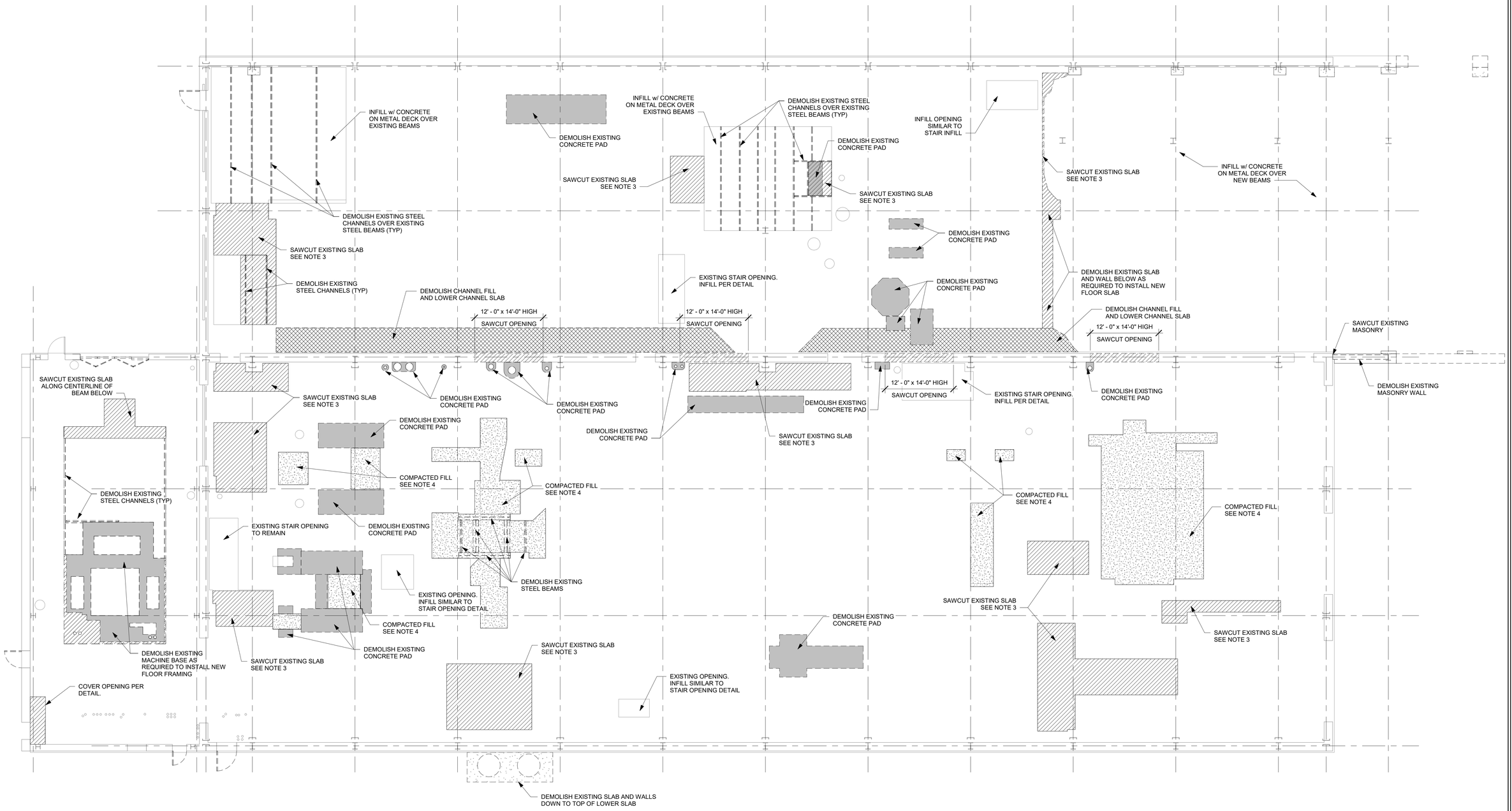
BASEMENT STEEL AND REPAIR PLAN

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.101



FIRST FLOOR DEMOLITION NOTES:

1. CLEAN FIRST FLOOR OF ALL DELETERIOUS MATERIAL. REMOVE ALL LOOSE CONCRETE.
2. DEMOLISH ALL EXISTING CONCRETE PADS, STEEL EQUIPMENT BASES, AND FLOOR PENETRATION PIPES DOWN TO TOP OF EXISTING FIRST FLOOR SLAB.
3. SAWCUT EXISTING SLAB ALONG EXISTING BEAM CENTERLINE. COVER OPENING WITH 1/2" METAL PLATE. REFER TO DETAIL.
4. FILL SPACE BELOW WITH COMPACTED STRUCTURAL FILL. PLACE COMPACTED STRUCTURAL FILL FLUSH WITH EXISTING FIRST FLOOR SLAB.
5. ALL EXISTING SLAB OPENINGS NOT CALLED OUT SHALL BE FILLED OR COVERED PER "INFILL DETAIL - OPENINGS UP TO 4 INCHES" OR "OPENING COVER PLATE DETAIL"

1 FIRST FLOOR DEMOLITION AND REPAIR PLAN
1/8" = 1'-0"

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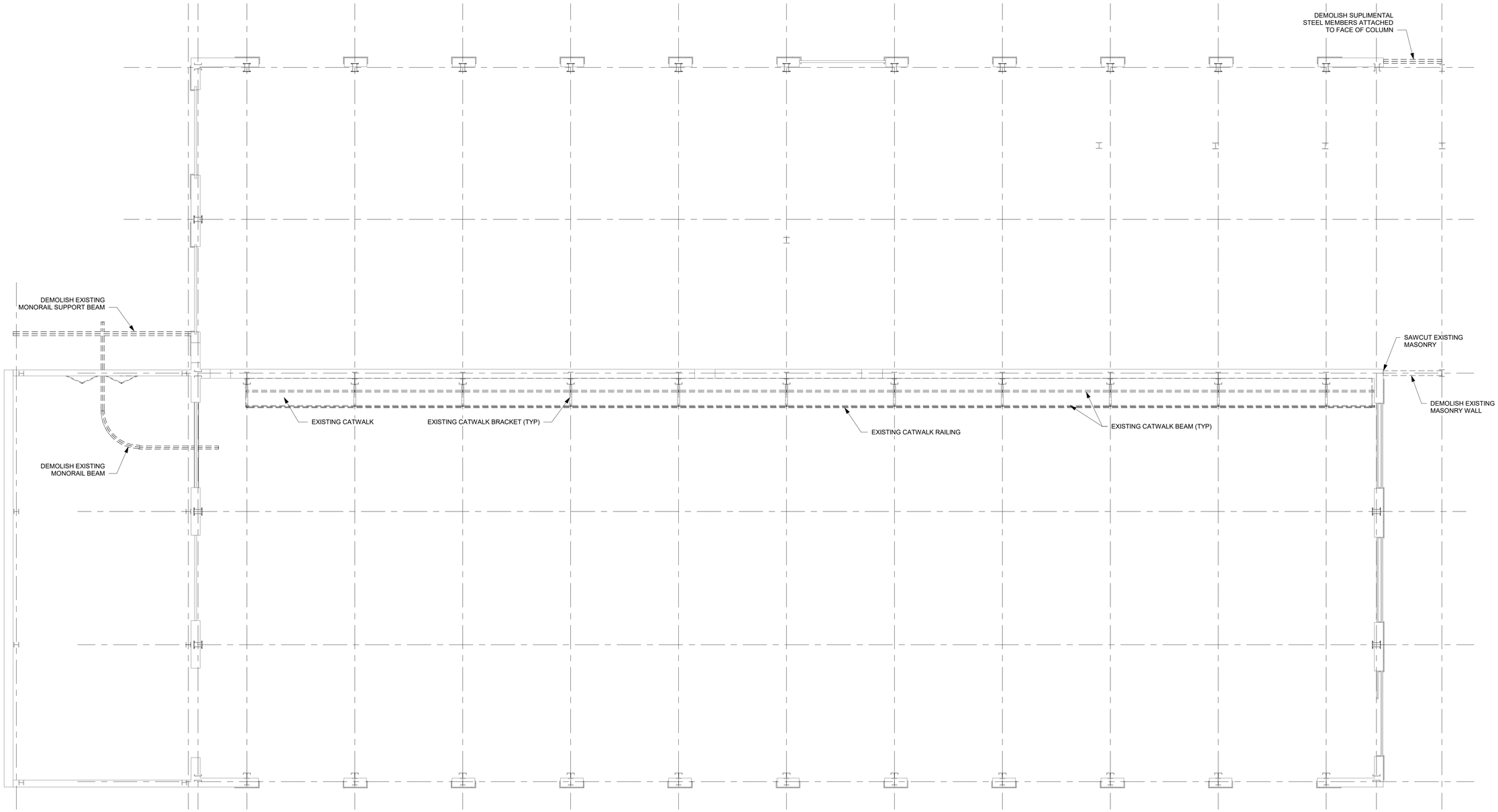
FIRST FLOOR DEMOLITION AND REPAIR PLAN

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.102



DEMOLITION NOTES:

1. DEMOLISH CATWALK, CATWALK BEAMS, CATWALK RAIL, AND CATWALK BRACKETS ENTIRELY. CUT FLUSH WITH EXISTING COLUMN.

1 MID-LEVEL DEMOLITION PLAN
1/8" = 1'-0"

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MID-LEVEL DEMOLITION PLAN

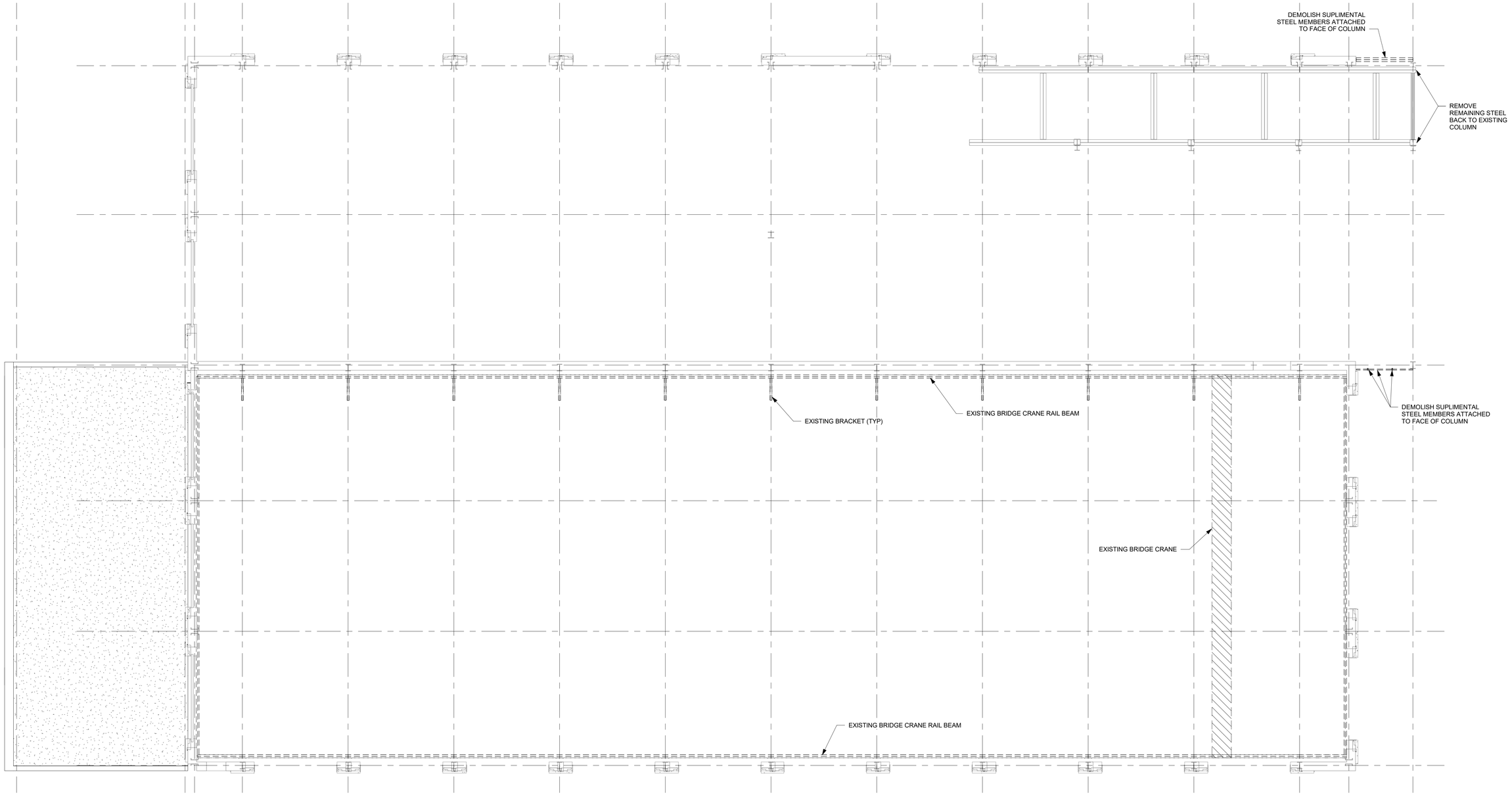
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.103



DEMOLITION NOTES:

1. DEMOLISH EXISTING BRACKETS, BRIDGE CRAIN, AND BRIDGE CRANE RAIL ENTIRELY. CUT FLUSH WITH EXISTING COLUMN.

1 2nd FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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2nd FLOOR DEMOLITION PLAN

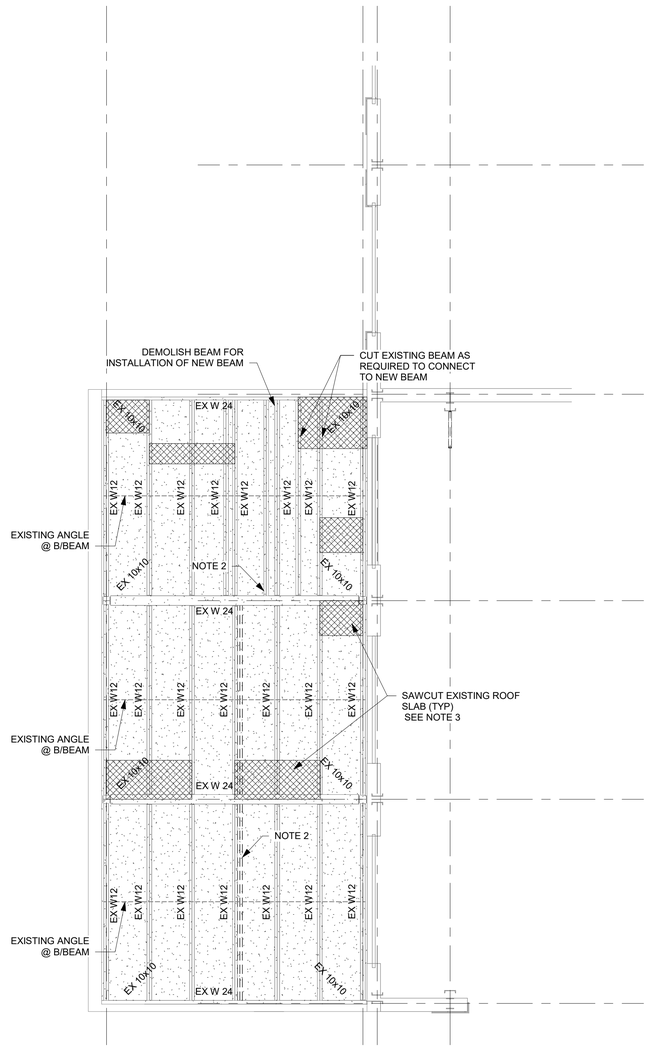
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:

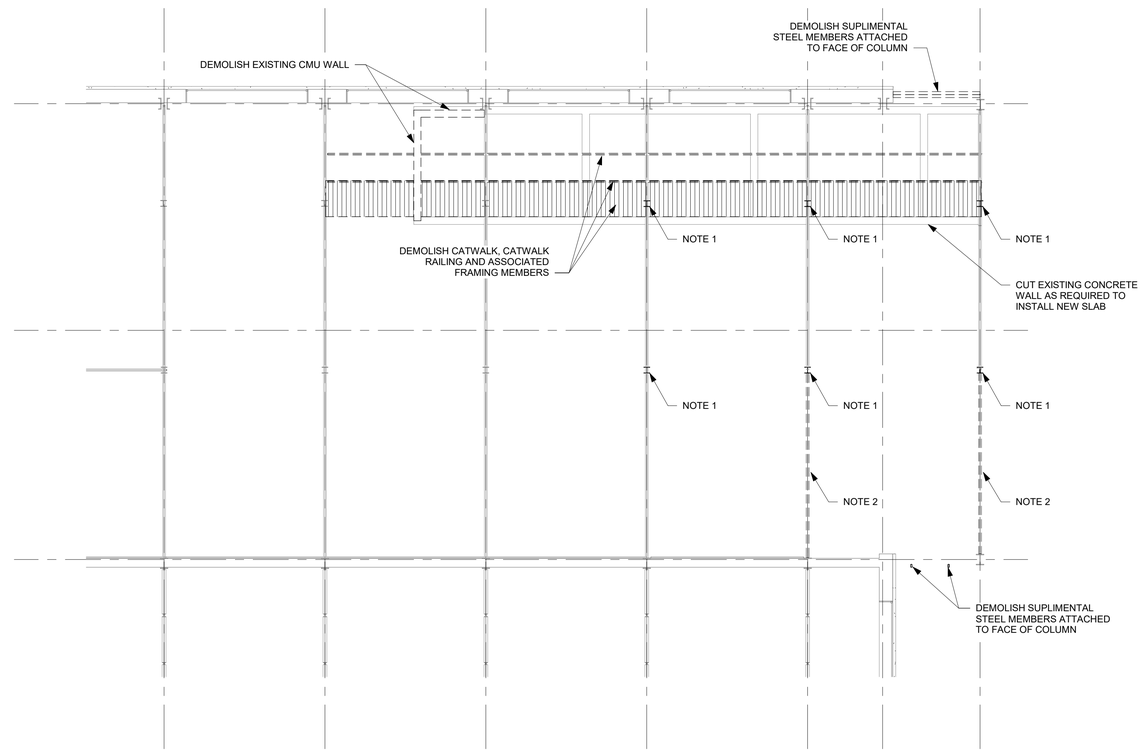
S.104



PLAN NOTES:

1. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001. EXISTING STEEL ELEMENTS NOTED AS "EX" ON PLAN. SUPLIMENTAL STEEL ELEMENTS NOT INDICATED ON PLAN SHALL BE REMOVED PRIOR TO CLEANING AND PAINTING OF EXISTING STEEL.
2. DEMOLISH EXISTING MONORAIL BEAMS AND ALL ASSOCIATED BRACKETS.
3. COORDINATE REQUIRED ROOF SLAB DEMOLITION WITH LOCATIONS OF SLAB DAMAGE. CUT OPENING SHALL BE MINIMUM 2 FEET WIDE. CUT EXISTING ROOF SLAB ALONG BEAM CENTERLINE. INSTALL 1 1/2" COMPOSITE METAL DECK TO FILL SAW CUT OPENING. ATTACK DECK WITH #10 TEK SCREWS. FILL METAL DECK WITH CONCRETE FLUSH WITH EXISTING ROOF SLAB.

1 LOW ROOF DEMOLITION PLAN
1/8" = 1'-0"



DEMOLITION NOTES:

1. DEMOLISH EXISTING ROOF SUPPORT POSTS. REFER TO ROOF DEMOLITION PLAN FOR EXTENTS OF ROOF FRAMING DEMOLITION.
2. PORTION OF EXISTING ROOF TRUSS TO BE DEMOLISHED. REFER TO ROOF TRUSS DEMOLITION DETAIL.

2 LOWER ROOF TERRACE DEMOLITION PLAN
1/8" = 1'-0"

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LOWER ROOF AND LOWER ROOF TERRACE DEMOLITION

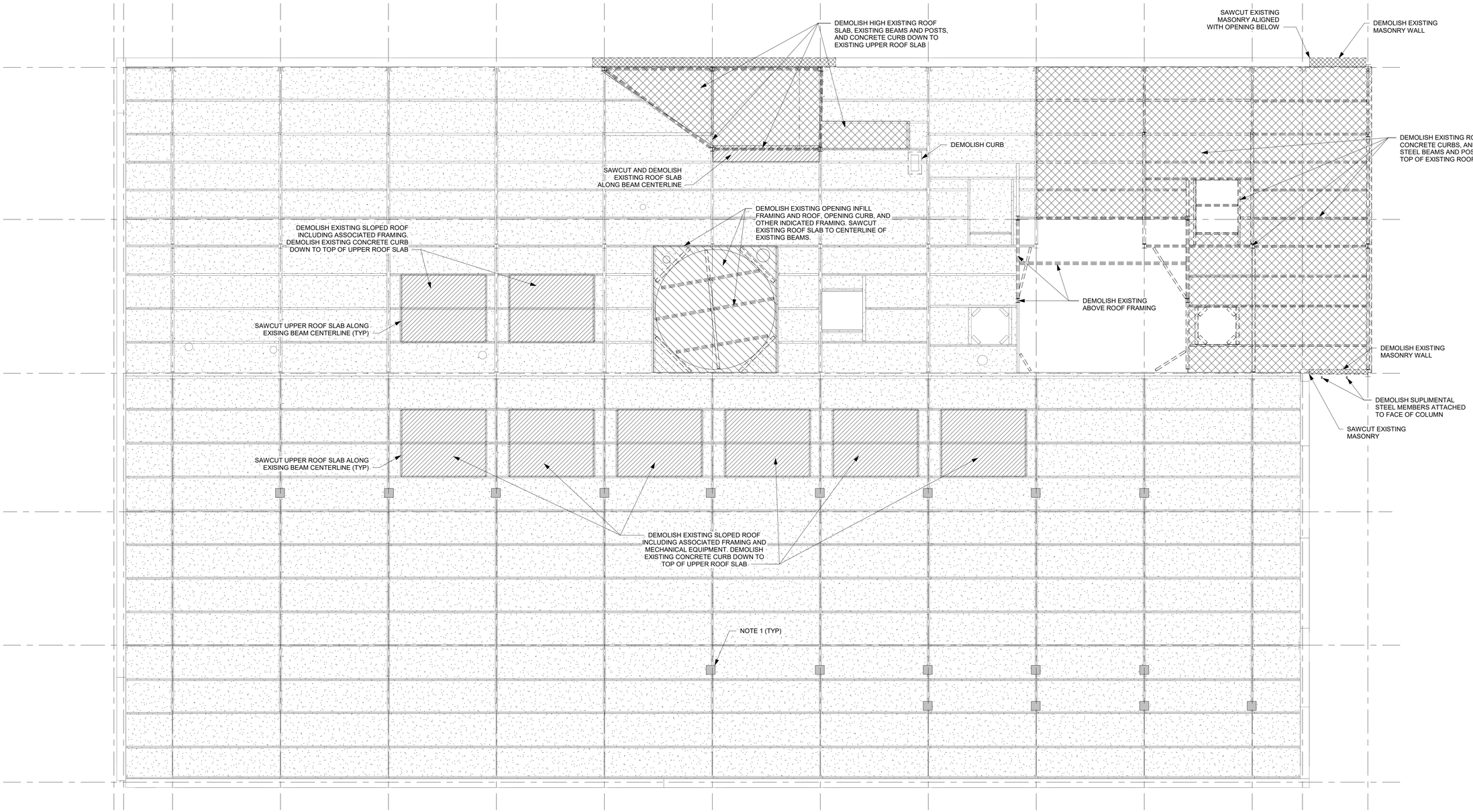
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.105



DEMOLITION NOTES:

1. DEMOLISH ALL EXISTING STEEL POSTS, STEEL PLATES, PIPE PENETRATIONS AND CONCRETE CURBS NOT OTHERWISE INDICATED DOWN TO TOP OF EXISTING ROOF SLAB.

1 UPPER ROOF DEMOLITION PLAN
1/8" = 1'-0"

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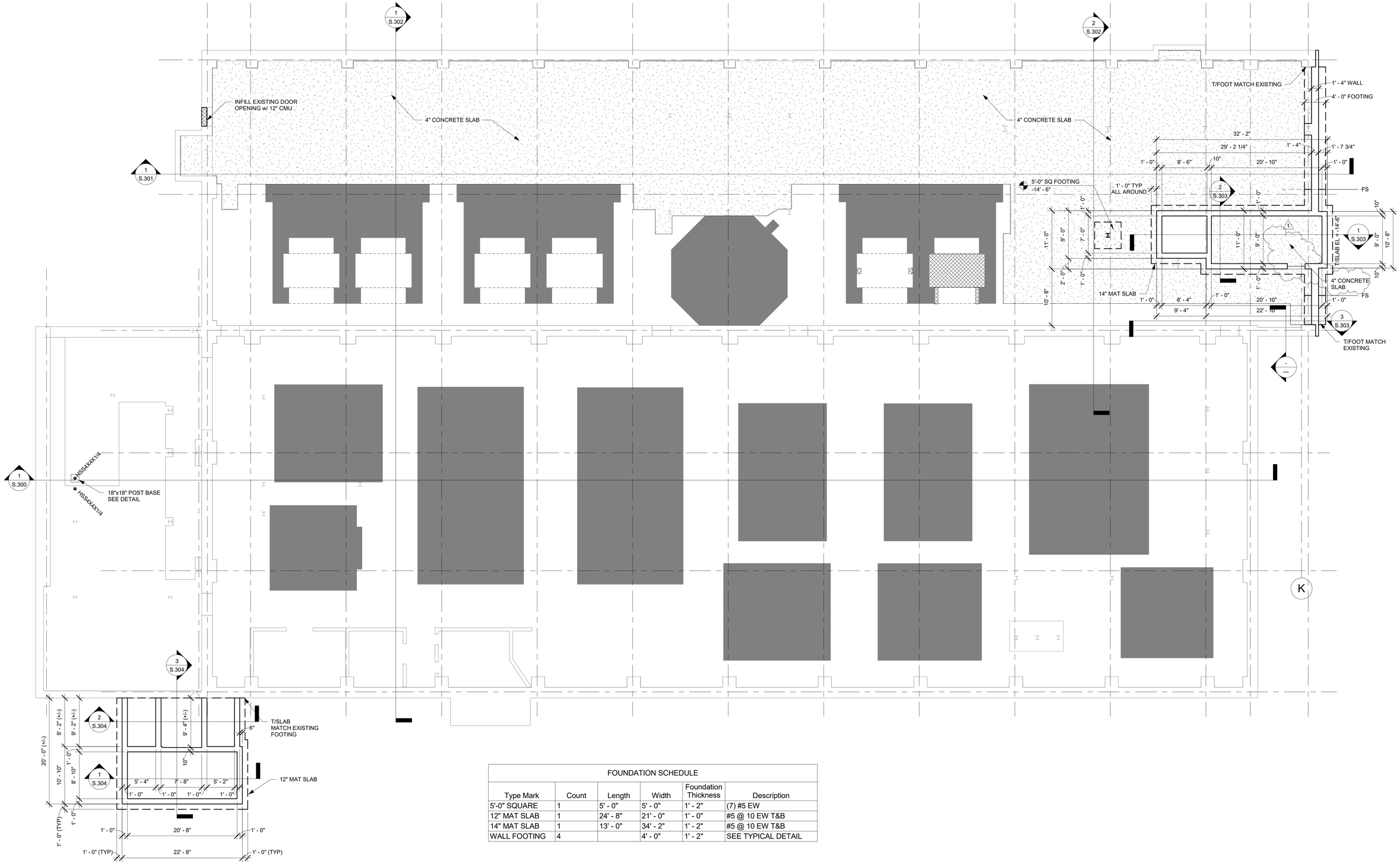
UPPER ROOF DEMOLITION PLAN

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.106



FOUNDATION SCHEDULE					
Type Mark	Count	Length	Width	Foundation Thickness	Description
5'-0" SQUARE	1	5' - 0"	5' - 0"	1' - 2"	(7) #5 EW
12" MAT SLAB	1	24' - 8"	21' - 0"	1' - 0"	#5 @ 10 EW T&B
14" MAT SLAB	1	13' - 0"	34' - 2"	1' - 2"	#5 @ 10 EW T&B
WALL FOOTING	4		4' - 0"	1' - 2"	SEE TYPICAL DETAIL

NOTES:

1. PROVIDE 4" CONCRTE SLAB OVER ENTIRE BASEMENT AREA OVER OWNER PROVIDED VAPOR COLECTION SYSTEM.

1 BASEMENT NEW WORK PLAN
1/8" = 1'-0"

GENERAL NOTES:

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BASEMENT NEW WORK PLAN

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
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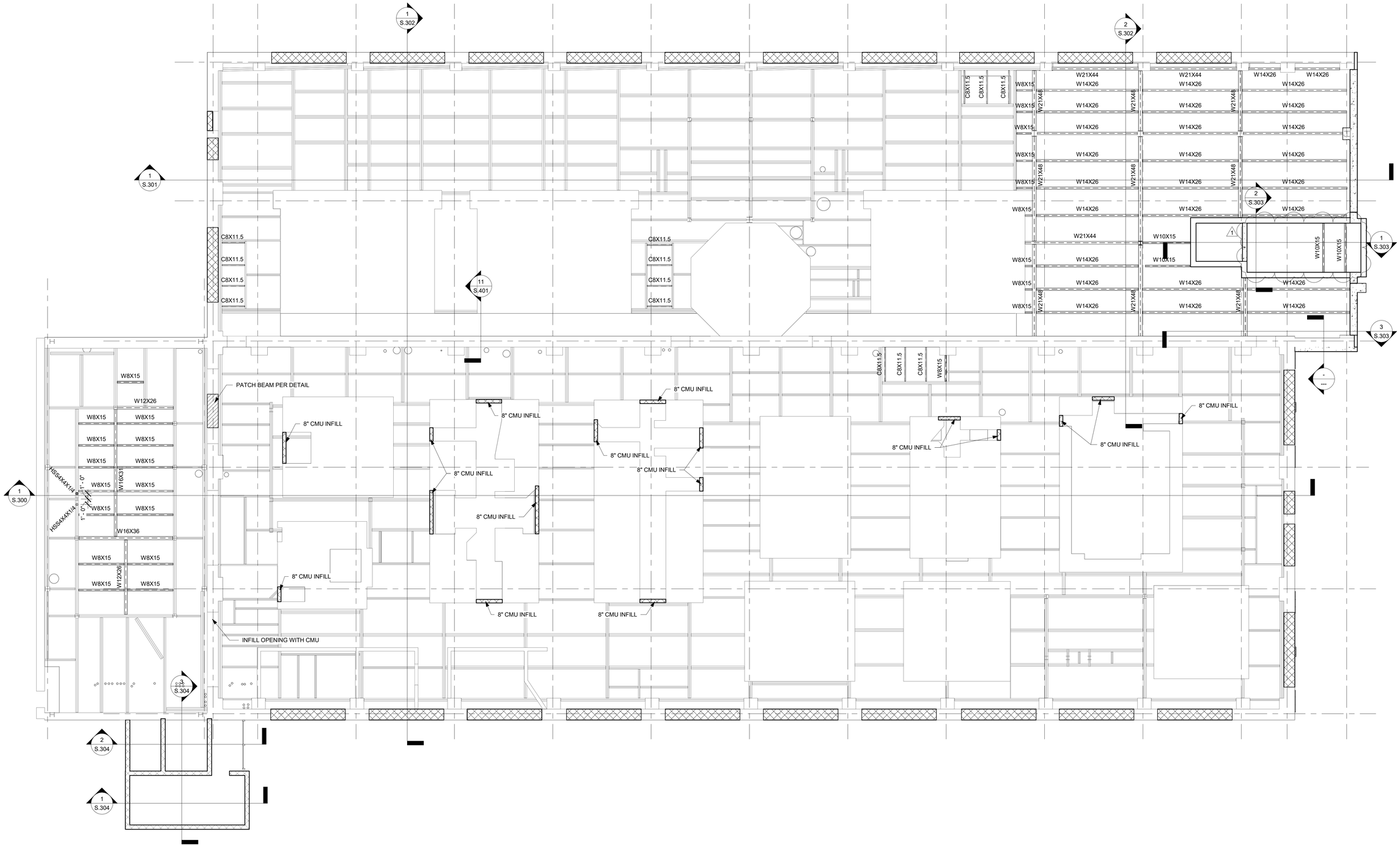
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.200



1 BASEMENT NEW STEEL PLAN
1/8" = 1'-0"

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BASEMENT NEW STEEL PLAN

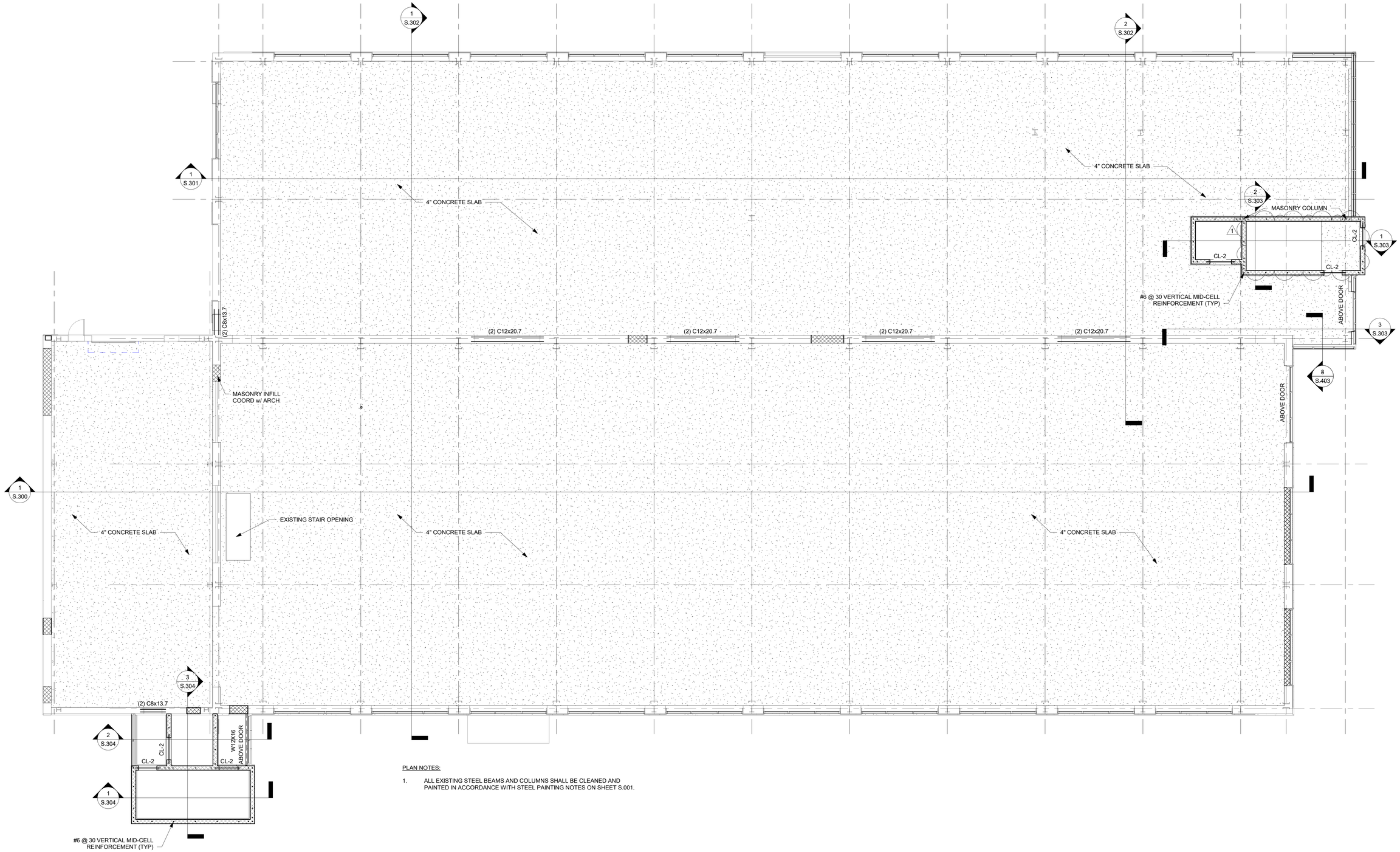
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.201



PLAN NOTES:

1. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

1 FIRST FLOOR NEW WORK PLAN
1/8" = 1'-0"

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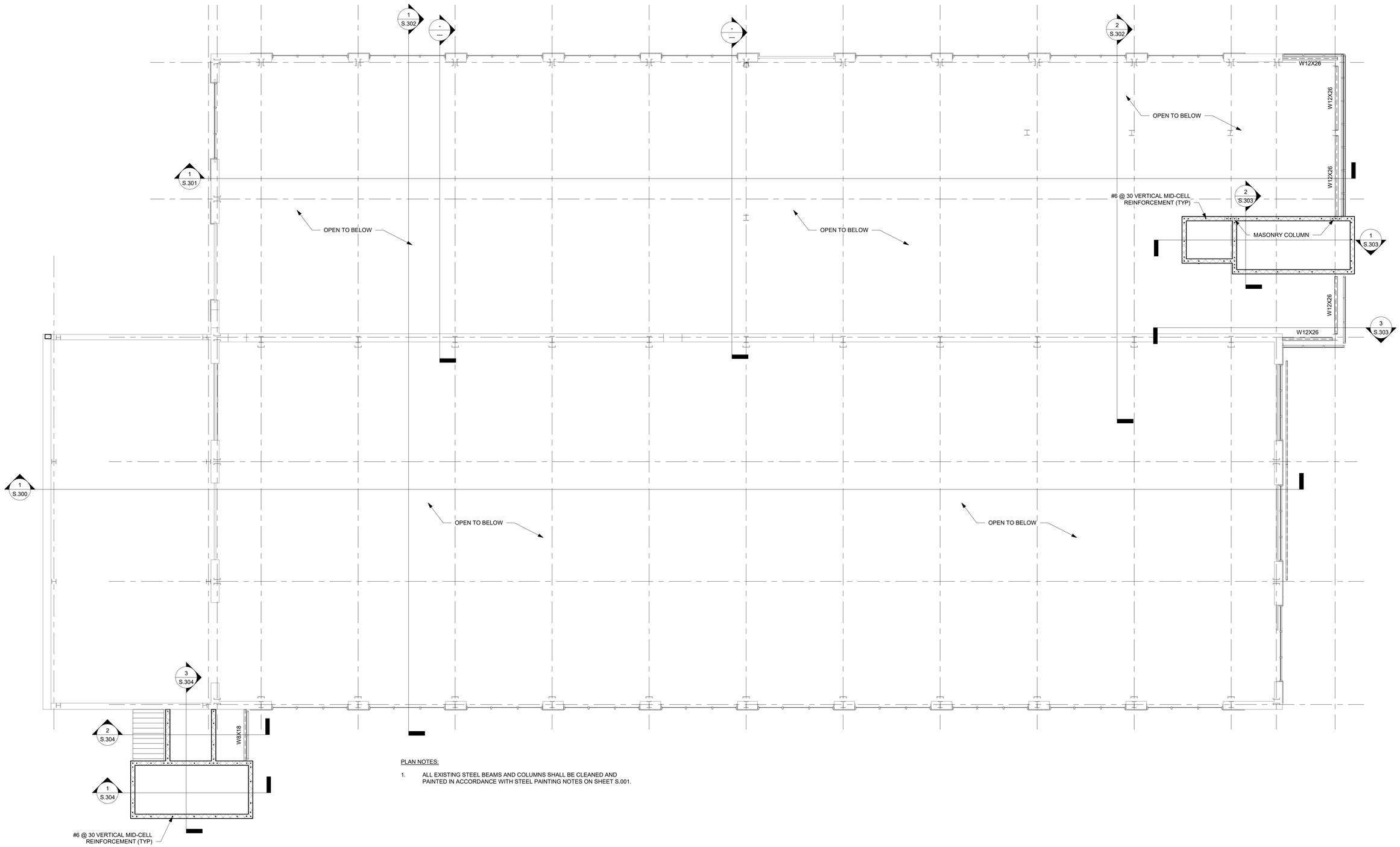
FIRST FLOOR NEW WORK PLAN

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.202



PLAN NOTES:

1. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

1 MID-LEVEL FLOOR NEW WORK PLAN
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MID-LEVEL NEW WORK PLAN

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
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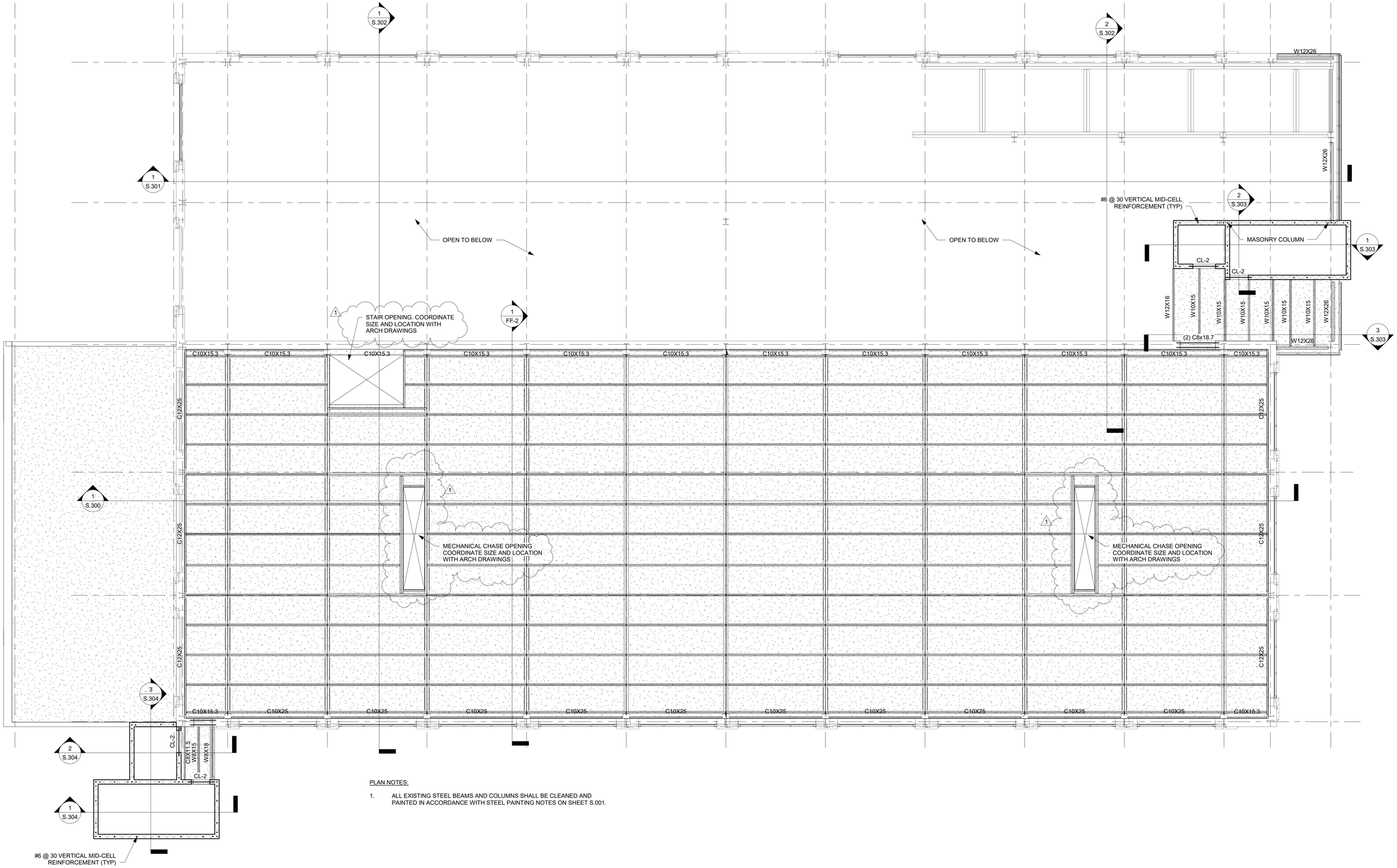
S.203



PLAN NOTES:

1. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

1 2nd FLOOR NEW WORK PLAN
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2nd FLOOR NEW WORK PLAN

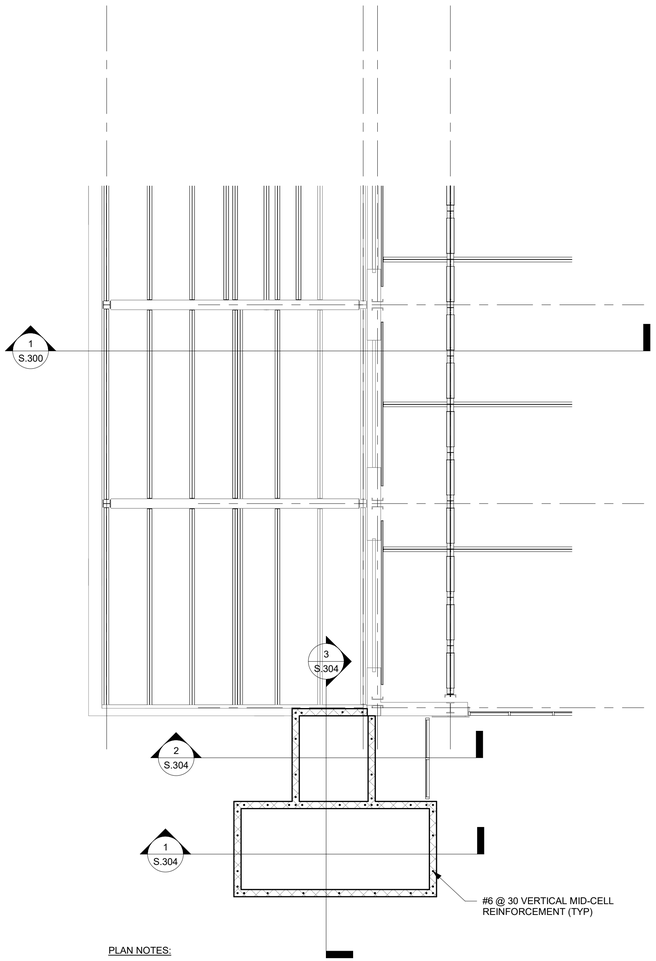
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.204

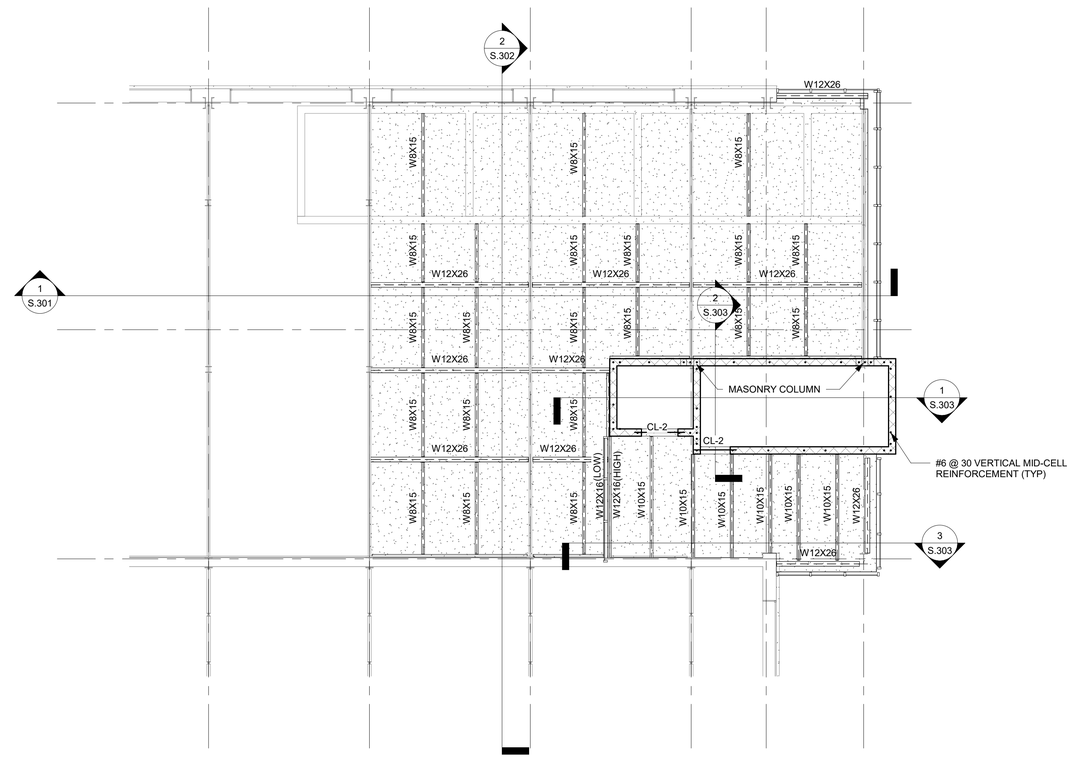


PLAN NOTES:

1. INSTALL NEW MINIMUM 4" CONCRETE PAD. COORDINATE PLAN DIMENSIONS WITH STAIR WALLS. COORDINATE FINAL TOP OF CONCRETE PAD WITH STAIR TOWER MASONRY COURSING.

2. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001

1 LOW ROOF NEW WORK PLAN
1/8" = 1'-0"



PLAN NOTES:

1. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

2 LOWER ROOF TERRACE NEW WORK PLAN
1/8" = 1'-0"

GENERAL NOTES:

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LOWER ROOF AND LOWER ROOF TERRACE NEW WORK

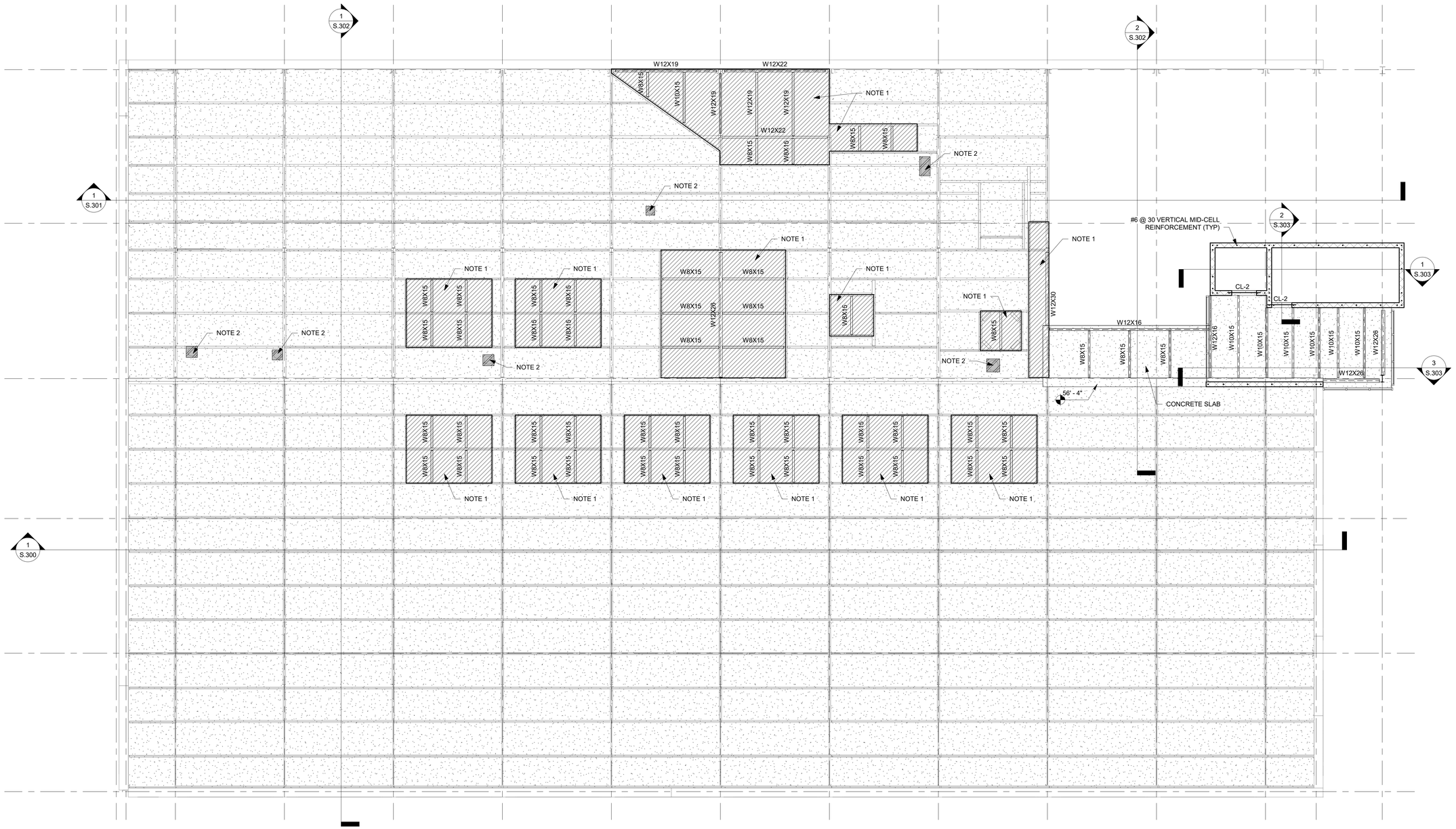
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.205



PLAN NOTES:

1. INSTALL 1/2" COMPOSITE METAL DECK. ATTACH DECK WITH #10 TEK SCREWS. FILL ABOVE DECK WITH CONCRETE, FLUSH WITH EXISTING CONCRETE DECK.
2. COVER SMALL OPENNGS WITH STEEL PLATE. REFER TO "OPENING COVER PLATE DETAIL".
3. ALL EXISTING STEEL BEAMS AND COLUMNS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001

1 UPPER ROOF NEW WORK PLAN
1/8" = 1'-0"

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UPPER ROOF NEW WORK PLAN

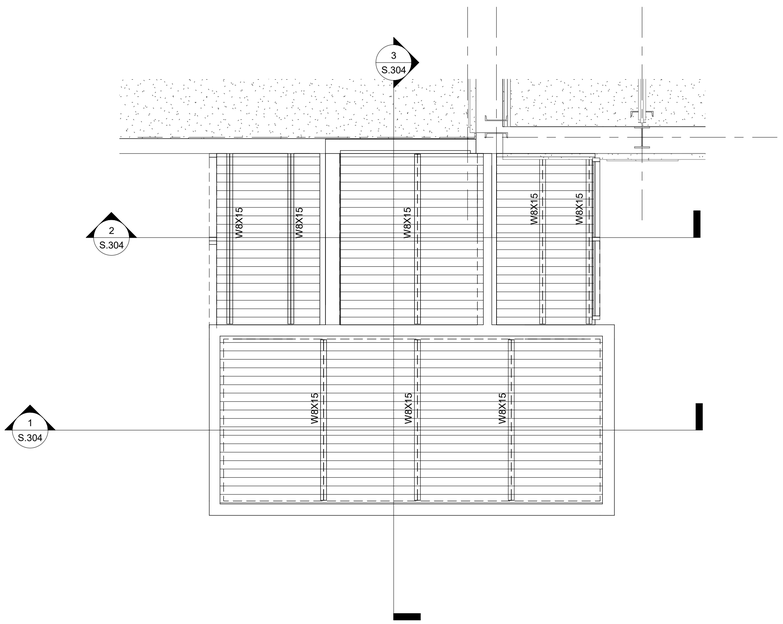
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

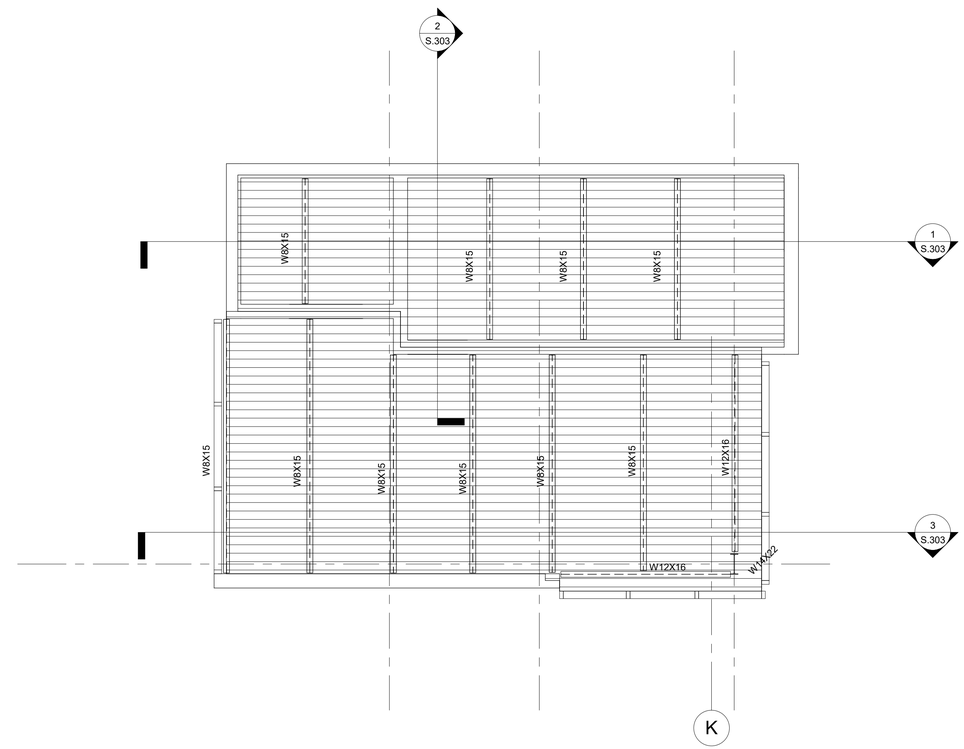
SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.206



3 EAST TOWER ROOF PLAN
1/4" = 1'-0"



2 NORTH TOWER ROOF PLAN
1/4" = 1'-0"

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STAIR TOWER ROOF PLANS

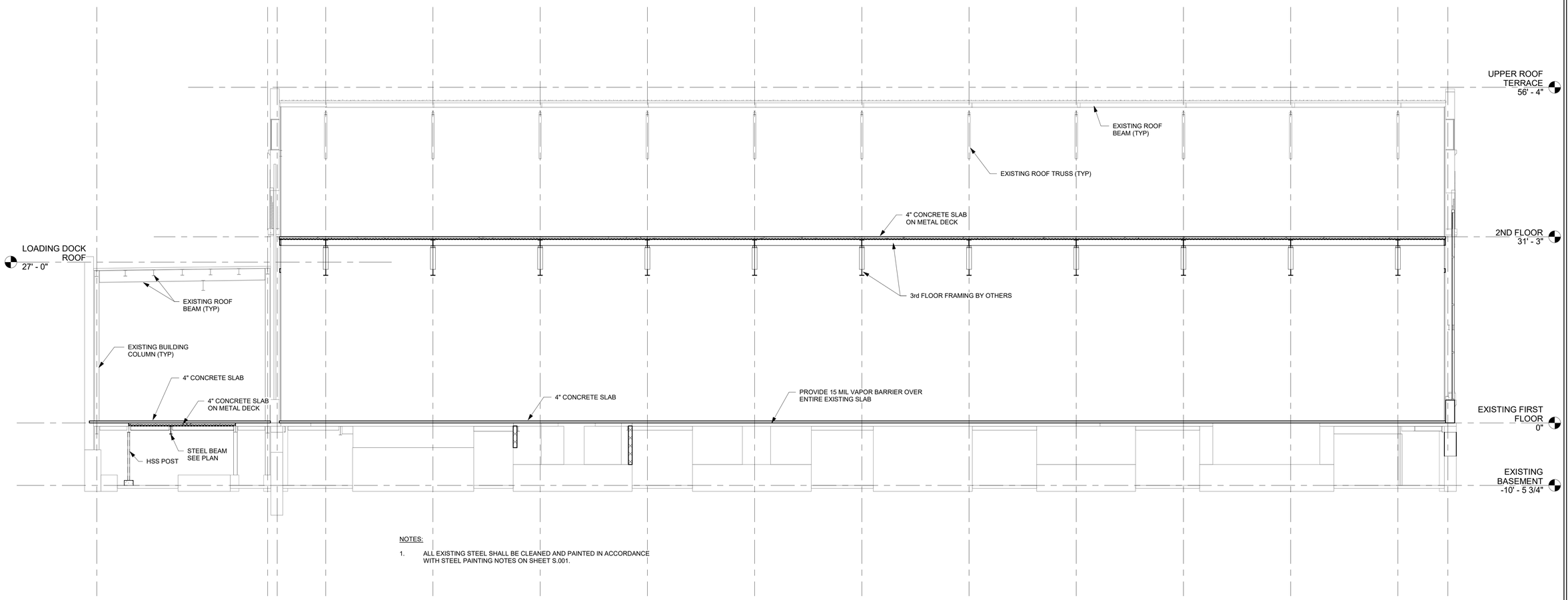
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	1/4" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.207



NOTES:

1. ALL EXISTING STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

1 EAST LONGITUDINAL BUILDING SECTION
1/8" = 1'-0"

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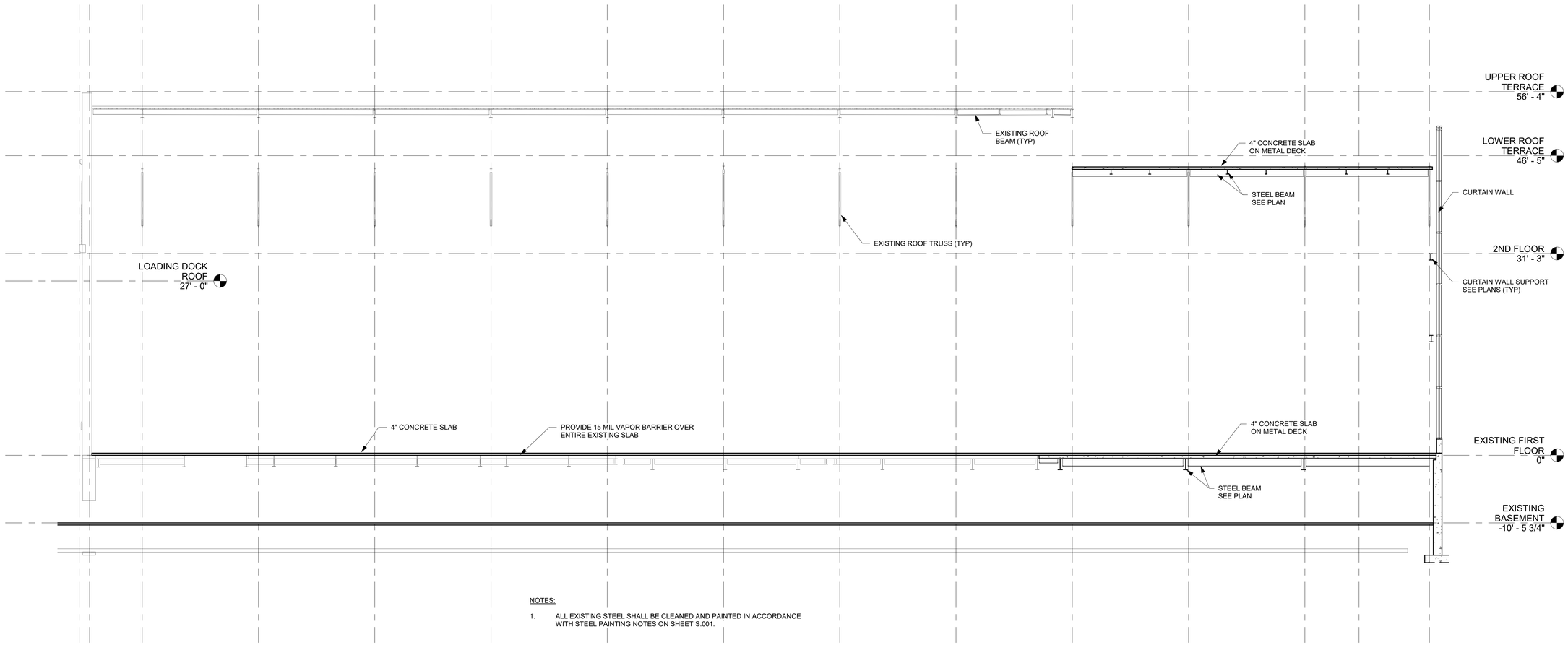
BUILDING SECTIONS

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.300



NOTES:

1. ALL EXISTING STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

1 WEST LONGITUDINAL BUILDING SECTION
1/8" = 1'-0"

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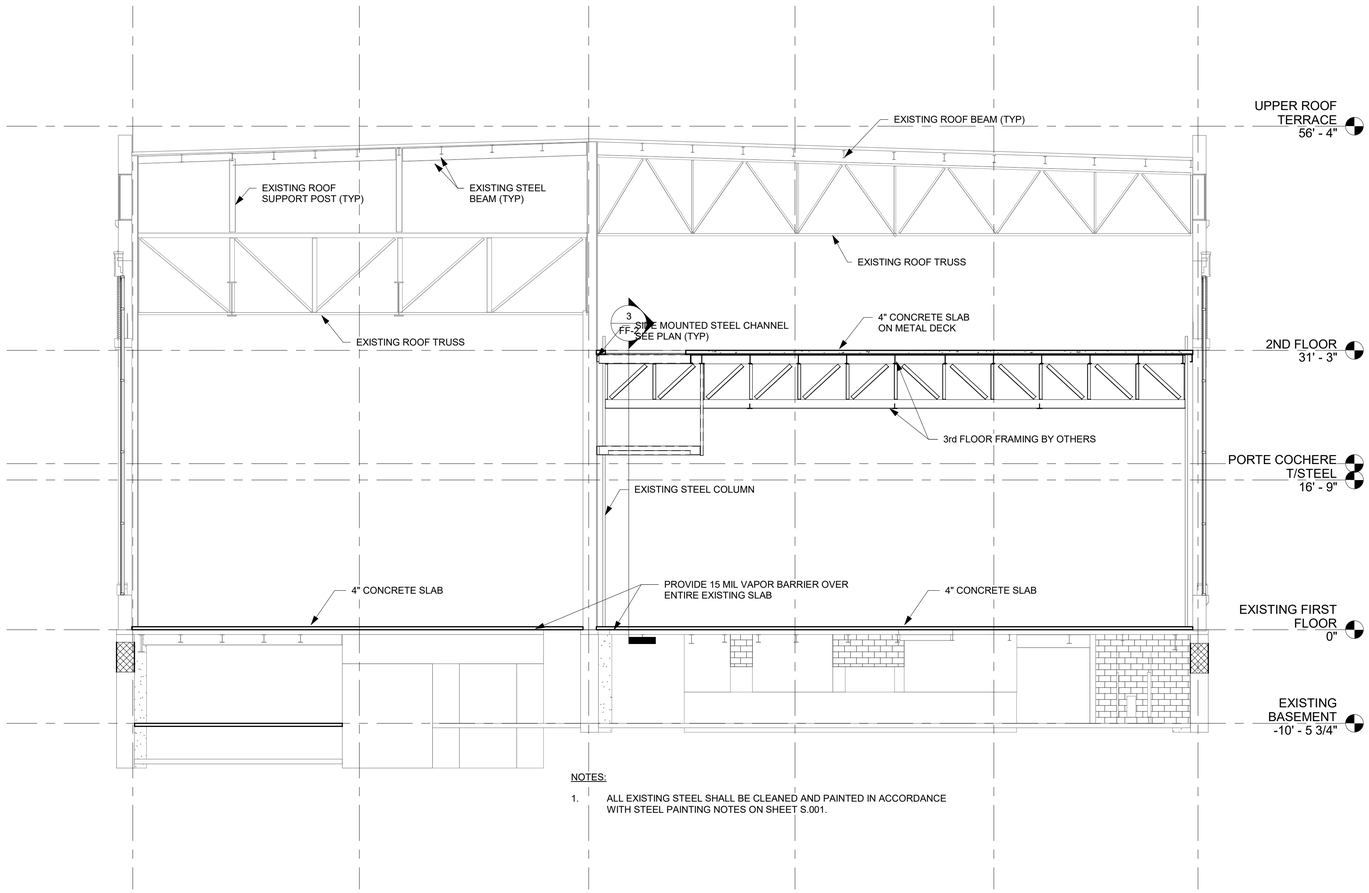
BUILDING SECTIONS

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

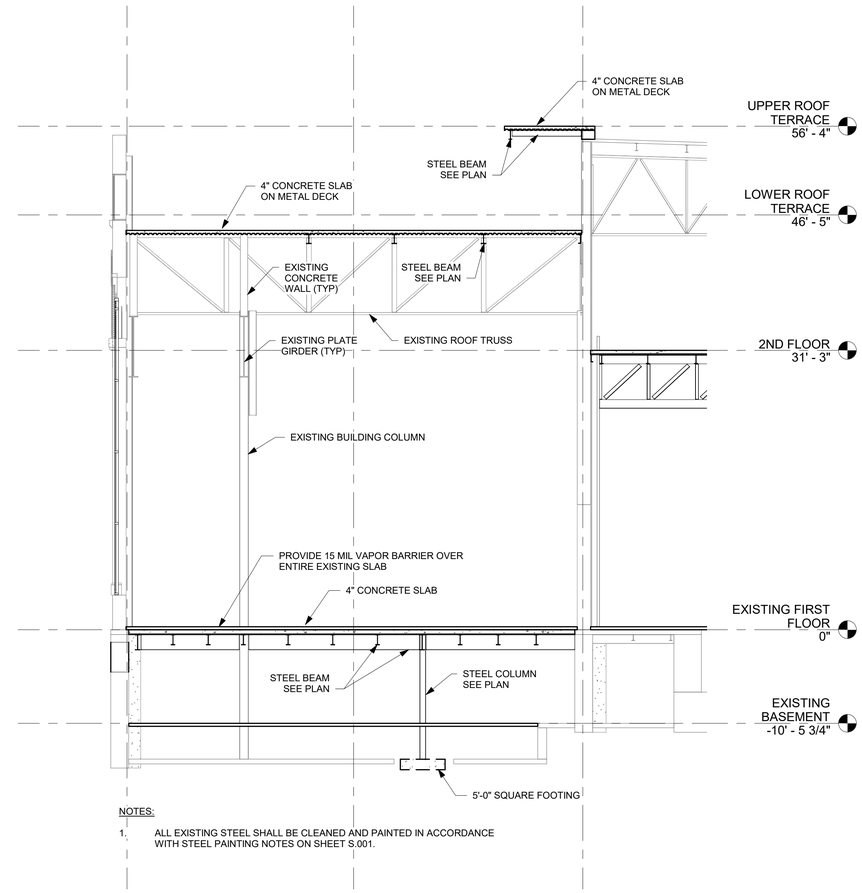
SHEET NUMBER:
S.301



NOTES:

1. ALL EXISTING STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

1 BUILDING CROSS SECTION
1/8" = 1'-0"



NOTES:

1. ALL EXISTING STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH STEEL PAINTING NOTES ON SHEET S.001.

2 BUILDING CROSS SECTION @ TERRACE
1/8" = 1'-0"

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BUILDING SECTIONS

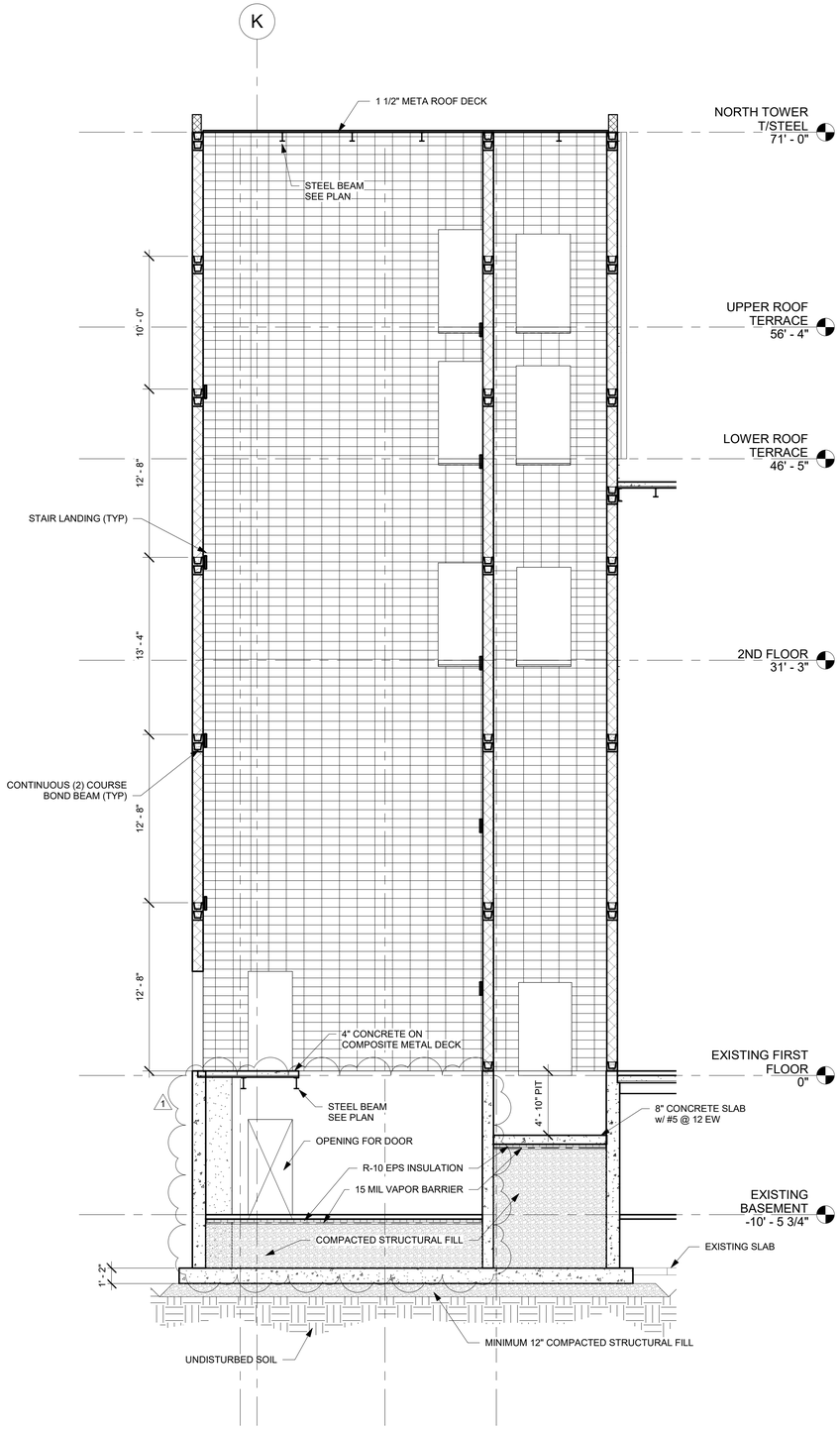
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

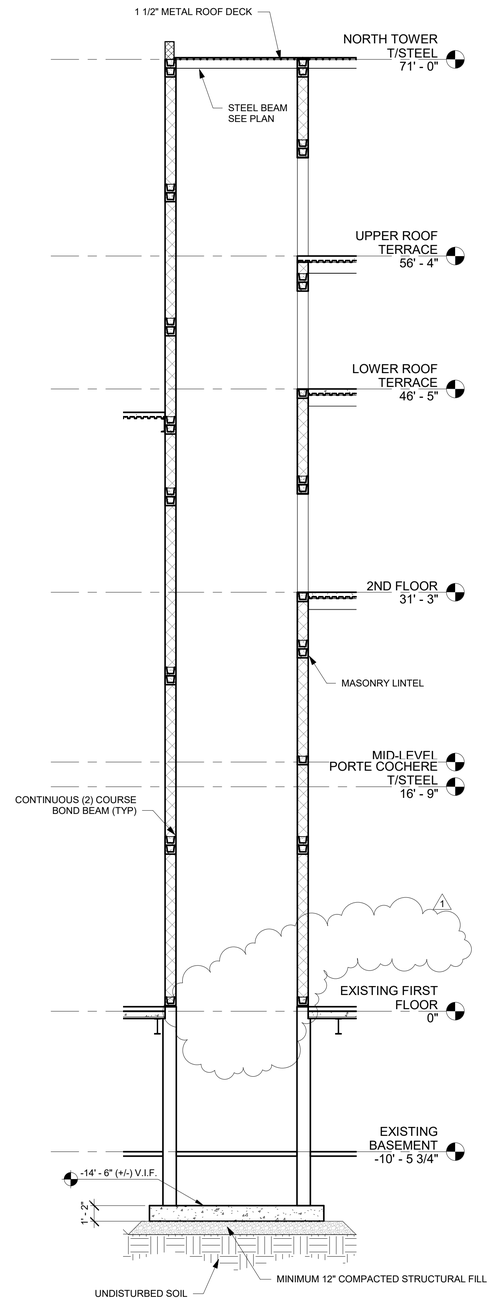
SCALE:	1/8" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

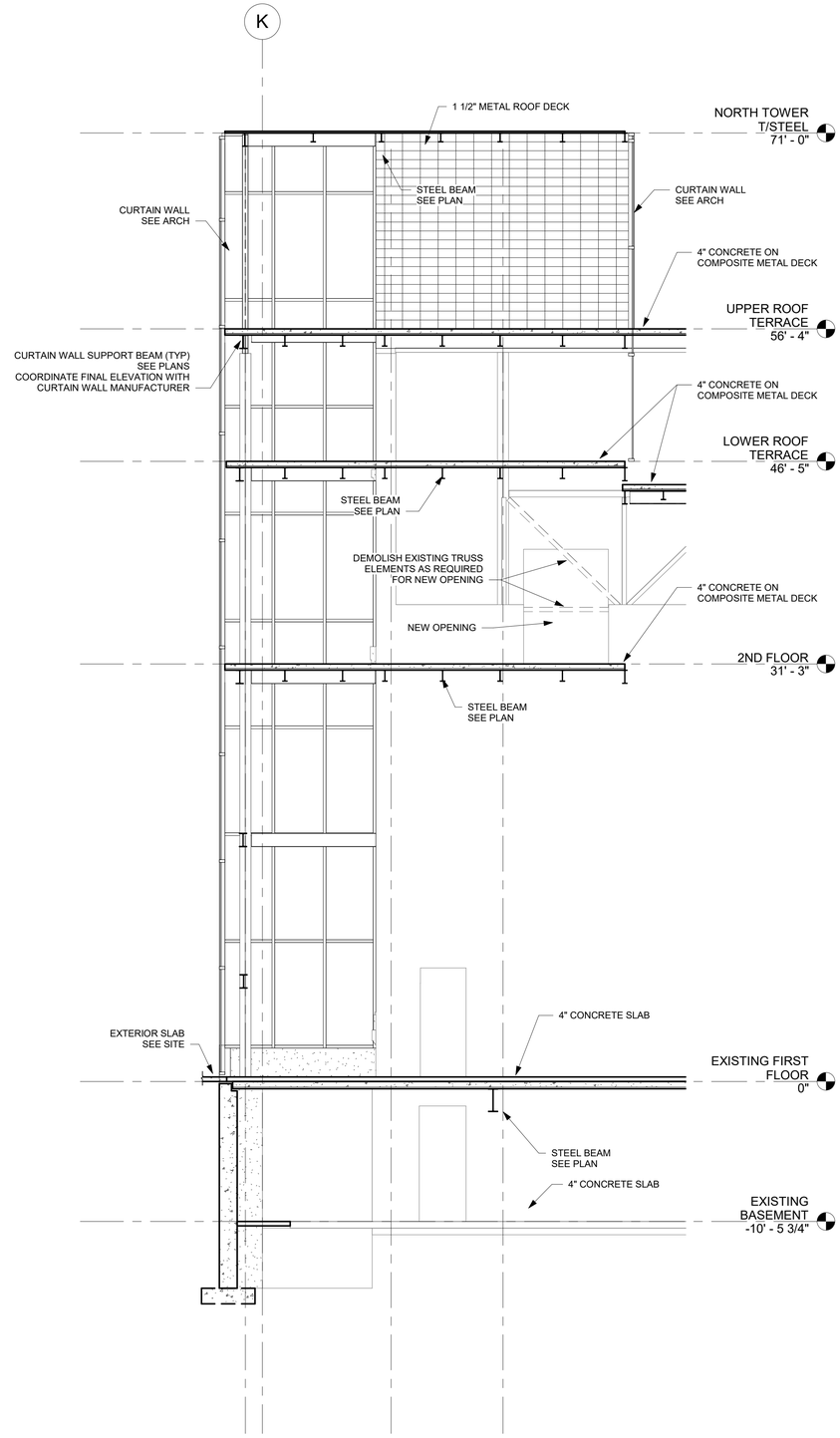
S.302



1 NORTH STAIR TOWER - SECTION 1
3/16" = 1'-0"



2 NORTH STAIR TOWER - SECTION 2
3/16" = 1'-0"



3 NORTH STAIR TOWER LOBBY - SECTION
3/16" = 1'-0"

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NORTH STAIR TOWER SECTIONS

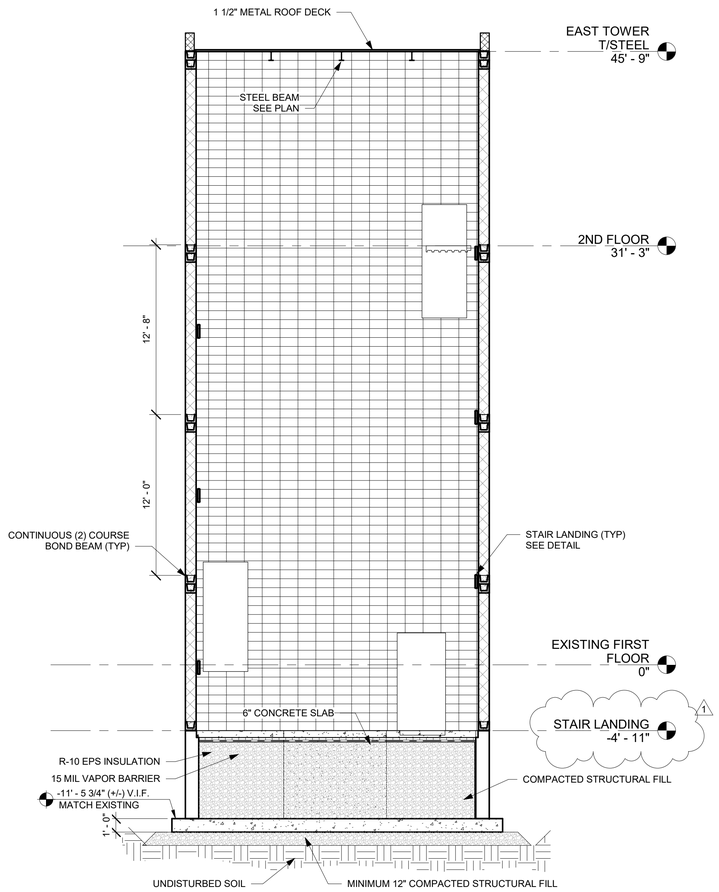
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

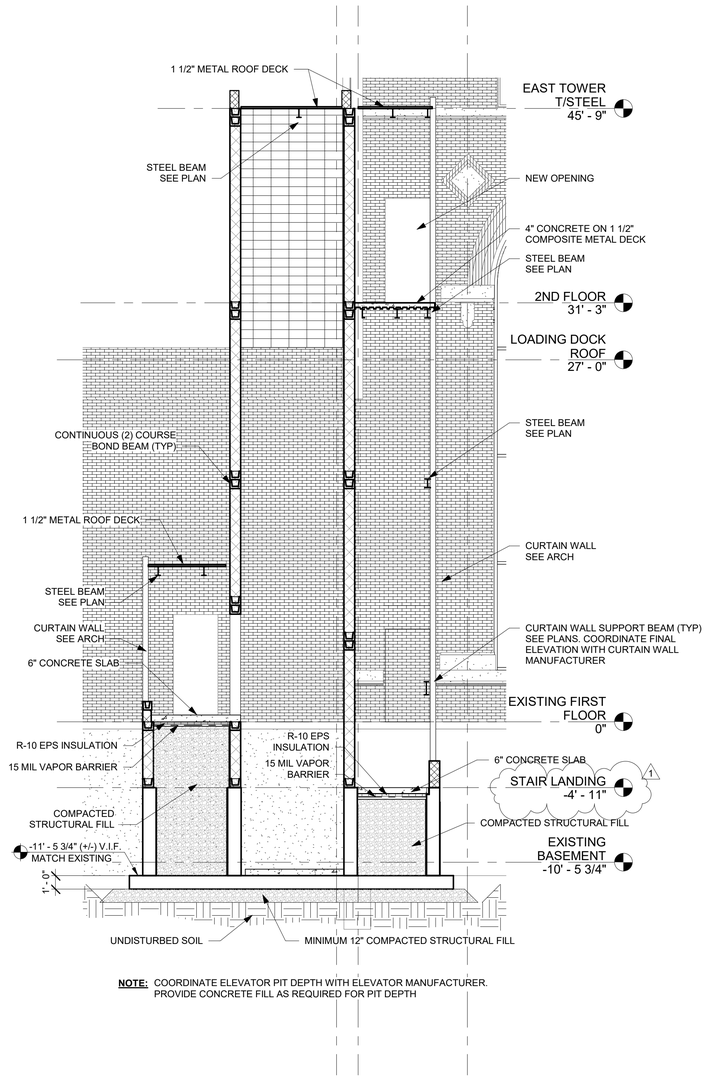
SCALE:	3/16" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.303

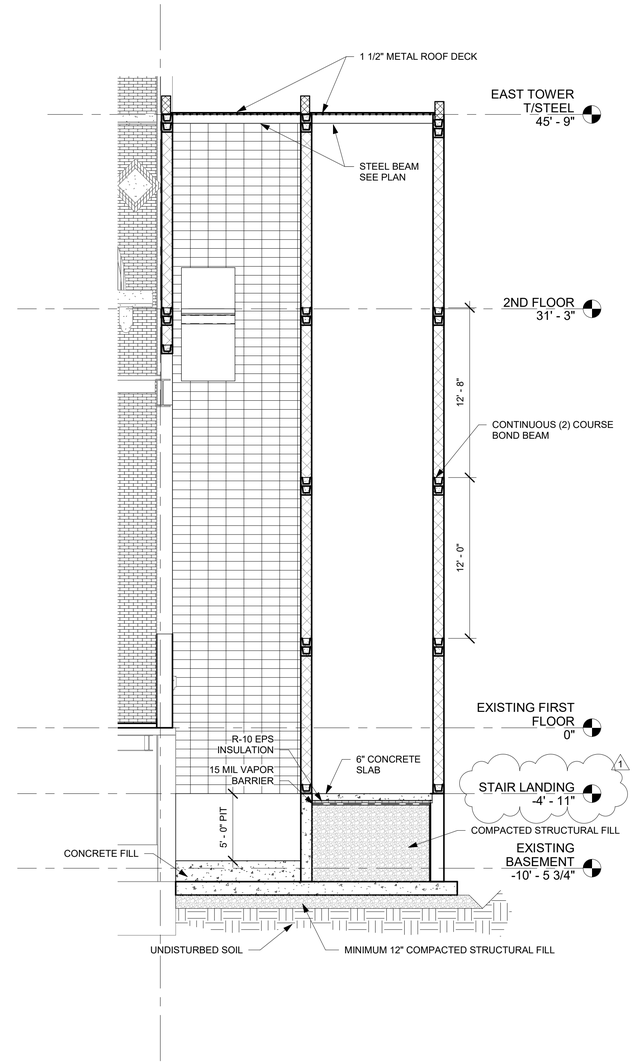


1 EAST STAIR TOWER - SECTION 1
3/16" = 1'-0"



NOTE: COORDINATE ELEVATOR PIT DEPTH WITH ELEVATOR MANUFACTURER.
PROVIDE CONCRETE FILL AS REQUIRED FOR PIT DEPTH

2 EAST STAIR TOWER - SECTION 2
3/16" = 1'-0"



3 EAST STAIR TOWER - SECTION 3
3/16" = 1'-0"

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EAST STAIR TOWER SECTIONS

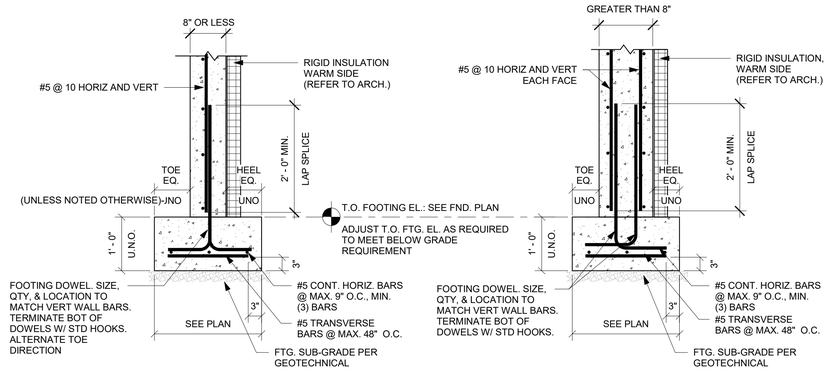
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

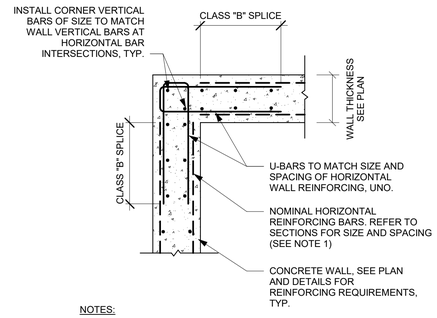
SCALE:	3/16" = 1'-0"
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.304



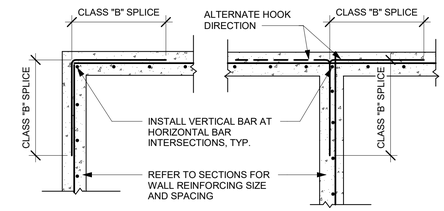
1 TYP. CONCRETE FOOTING & FOUNDATION WALL DETAIL
3/4" = 1'-0"



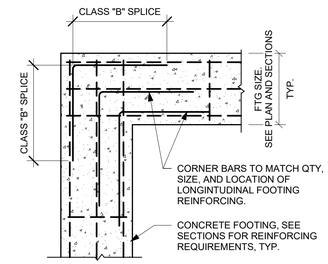
NOTES:

1. TERMINATE HORIZONTAL REINFORCING BARS IN LINE WITH INSIDE CORNER OF CONCRETE WALL.

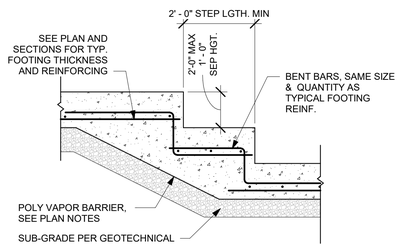
2 TYPICAL CONC. WALL CORNER REINFORCING
1/2" = 1'-0"



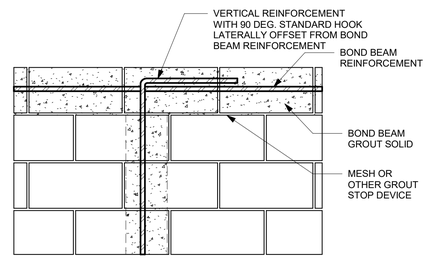
3 TYPICAL FND. WALL INTERSECTION DETAIL
1/2" = 1'-0"



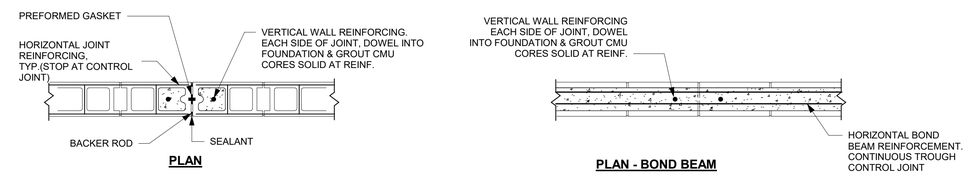
4 TYPICAL CONC. FOOTING CORNER REINFORCING
1/2" = 1'-0"



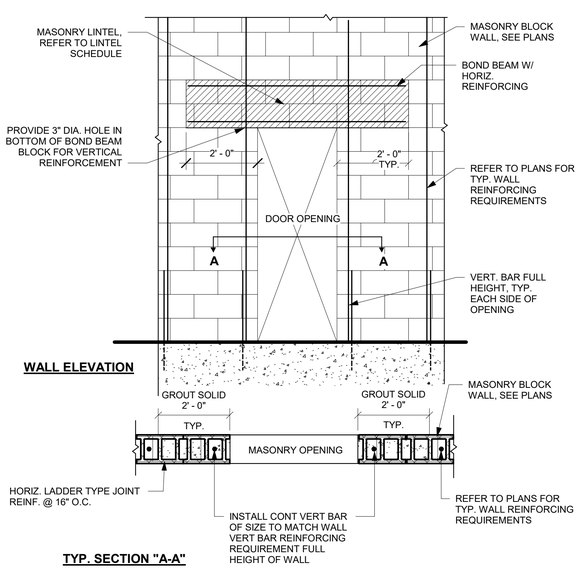
5 TYPICAL STEP FOOTING DETAIL
1/2" = 1'-0"

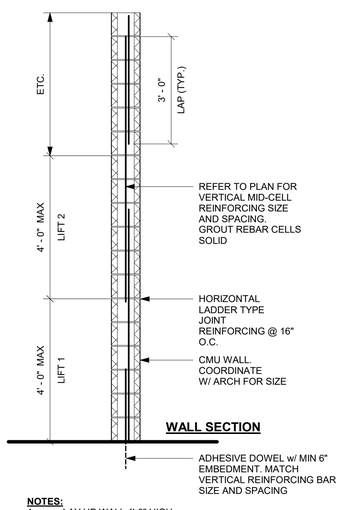


6 TYP. TOP OF WALL MASONRY VERTICAL BAR & BOND BEAM REINF. DETAIL
1" = 1'-0"



7 MASONRY- CONTROL JOINT W/ PREFORMED GASKET
3/4" = 1'-0"

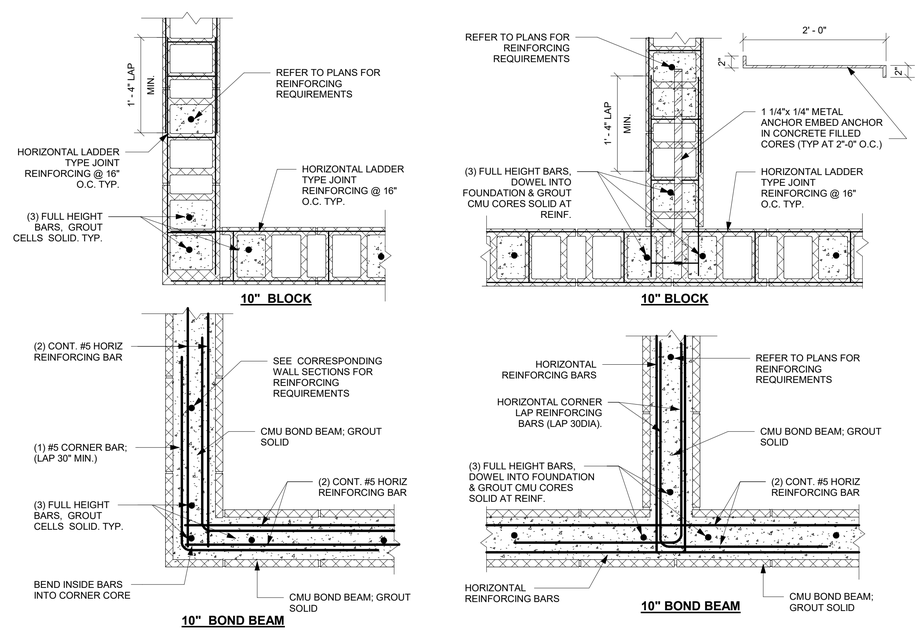




NOTES:

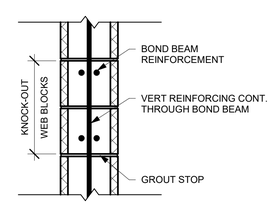
1. LAY UP WALL 4'-0" HIGH
2. PLACE REINFORCING BARS
3. GROUT CELL SOLID @ REBAR LOCATIONS
4. REPEAT PROCEDURES ABOVE FOR ENTIRE HEIGHT OF WALL
5. PROVIDE HORIZONTAL LADDER TYPE JOINT REINFORCING @ 16" O.C.

8 TYP. CMU WALL REINFORCING
1/2" = 1'-0"



NOTE: PROVIDE HORIZONTAL BOND BEAMS AT TOP AND BOTTOM OF WALL. BOTTOM BOND BEAM SHALL BE INTERUPTED AT MASONRY CONTROL JOINTS. TOP BOND BEAM SHALL BE CONTINUOUS THROUGH MASONRY CONTROL JOINTS.

9 MASONRY- PLAN DETAIL OF CORNER REINFORCING
1" = 1'-0"



10 TYPICAL MID-WALL BOND BEAM DETAIL
1" = 1'-0"

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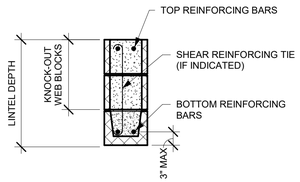
DETAILS

140 LEE STREET BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 10.23.19
DRAWN BY: BTM
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.400



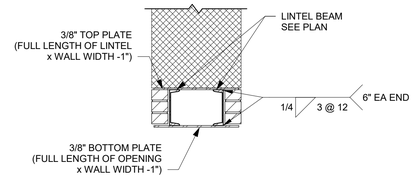
TYPICAL MASONRY LINTEL CONSTRUCTION

LINTEL SCHEDULE					
LINTEL NAME	CMU WIDTH	LINTEL DEPTH/ NO. COURSES	TOP & BOTTOM REINFORCING BARS	SHEAR TIES	MAX OPENING
CL-1	10"	8" / (1) COURSE	(2) #5 BAR T&B	-	2'-0"
CL-2	10"	16" / (2) COURSE	(2) #5 BAR T&B	-	4'-0"
CL-3	10"	24" / (3) COURSE	(2) #5 BAR T&B	-	6'-0"

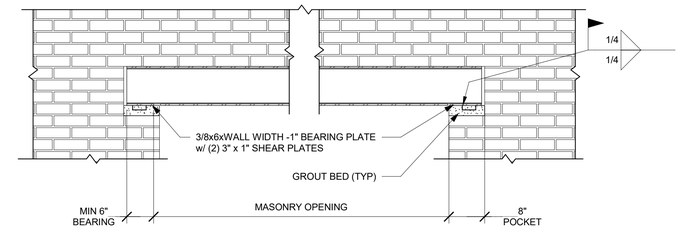
MASONRY LINTEL SCHEDULE

1. PROVIDE MASONRY LINTELS AS PER THE FOLLOWING SCHEDULE IN ALL MASONRY WALL OPENINGS WHEN NOT SHOWN ON DRAWINGS, OR IN OPENINGS REQUIRED BY ARCHITECTURAL MECHANICAL, AND ELECTRICAL DRAWINGS.
2. ALL LINTELS SHALL EXTEND MINIMUM 2'-0" BEYOND THE MASONRY OPENING EACH END.
3. WHERE ADJACENT OPENING OR WALL CORNER OCCURS WITHIN 2'-0" OF MASONRY OPENING, TERMINATE LINTEL/BEAM AT EDGE OF ADJACENT OPENING OR CORNER. REINFORCING BARS SHALL TERMINTAE IN A STANDARD HOOK, TURNED DOWN INTO GROUTED CELL.

1 MASONRY LINTELS
3/4" = 1'-0"

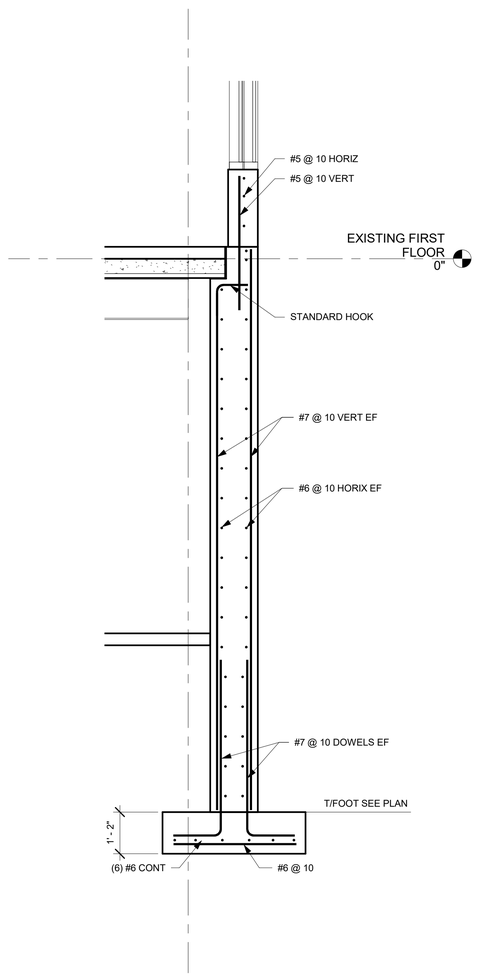


SECTION

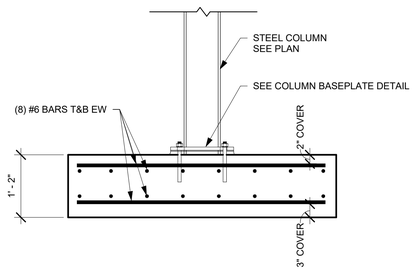


NOTE: ALL STEEL SHALL BE PAINTED.

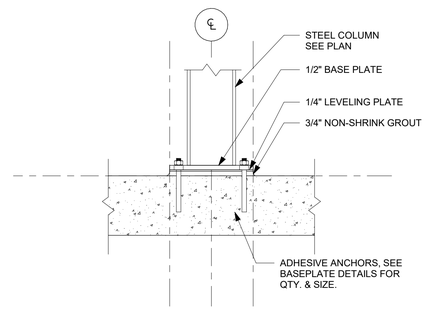
2 STEEL LINTELS @ EXISTING BRICK MASONRY WALL
3/4" = 1'-0"



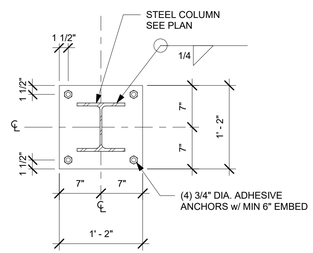
3 FOUNDATION WALL SECTION
1/2" = 1'-0"



4 COLUMN FOOTING DETAIL
3/4" = 1'-0"

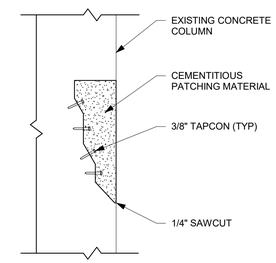


SECTION



PLAN

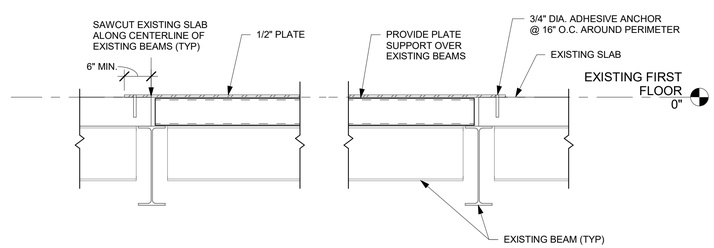
5 COLUMN BASEPLATE DETAIL
1" = 1'-0"



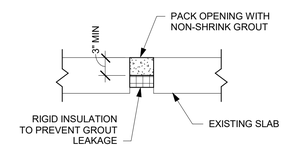
NOTES:

1. CLEAN ALL LOOSE CONCRETE FROM AREA TO BE PATCHED.
2. SAWCUT EDGES OF ARE TO BE PATCHED MINIMUM 1/4" DEEP TO ELIMINATE PATCH FEATHERED EDGES.
3. INSTALL TAPCON'S WITH MINIMUM 1" EXPOSED, IN A 12" SQUARE GRID.
4. PATCH AREA WITH CEMENTITIOUS PATCHING MATERIAL IN ACCORDANCE WITH MANUFACTURERS RECOMENDATIONS.

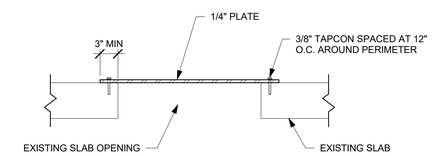
6 COLUMN REPAIR DETAIL
1" = 1'-0"



7 FLOOR INFILL DETAIL
3/4" = 1'-0"

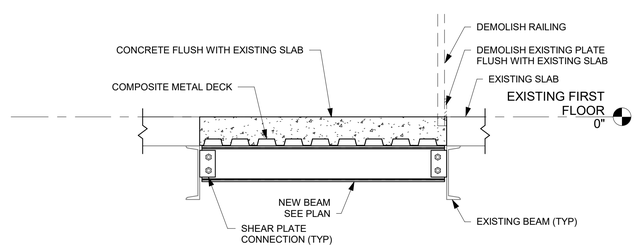


8 INFILL DETAIL - OPENING UP TO 4 INCHES
1" = 1'-0"

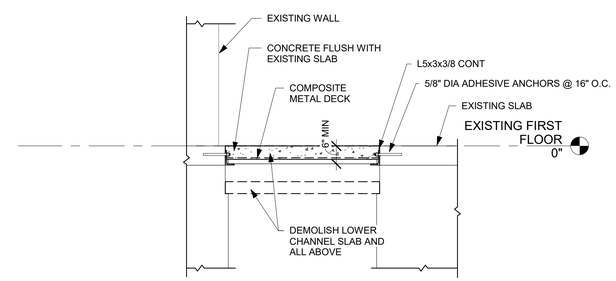


NOTE: PLATE SHALL BE PAINTED PRIOR TO INSTALLATION.

9 OPENING COVER PLATE DETAIL
1" = 1'-0"



10 STAIR INFILL DETAIL
3/4" = 1'-0"



11 CHANNEL INFILL DETAIL
1/2" = 1'-0"

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DETAILS

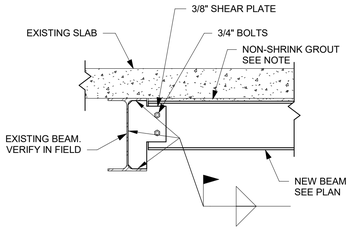
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	As indicated
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

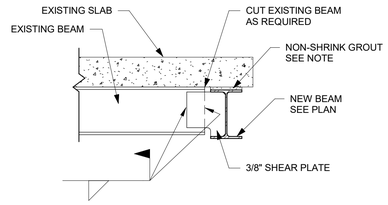
SHEET NUMBER:

S.401



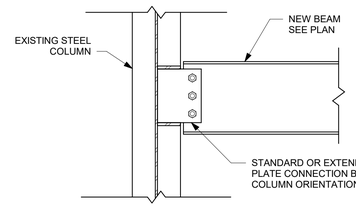
NOTE: WHERE NEW BEAM SUPPORTS EXISTING CONCRETE SLAB, INSTALL BEAM 1" BELOW SLAB AND PACK SPACE WITH NON-SHRINK GROUT.

1 TYPICAL NEW BEAM TO EXISTING CONN
1" = 1'-0"

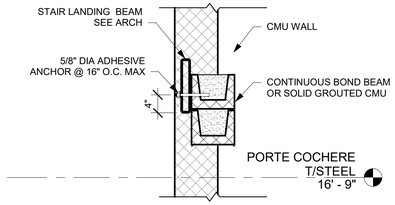


NOTE: WHERE NEW BEAM SUPPORTS EXISTING CONCRETE SLAB, INSTALL BEAM 1" BELOW SLAB AND PACK SPACE WITH NON-SHRINK GROUT.

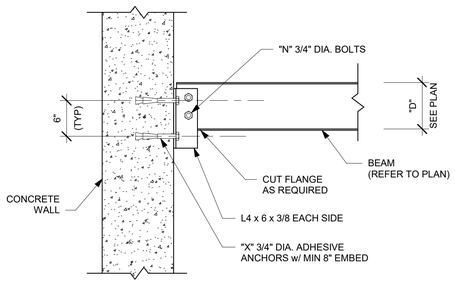
2 EXISTING BEAM CONN TO NEW BEAM
1" = 1'-0"



3 TYPICAL BEAM TO EXISTING COLUMN DETAIL
1" = 1'-0"

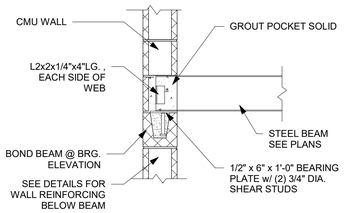


4 TYPICAL STAIR STRINGER SUPPORT
3/4" = 1'-0"

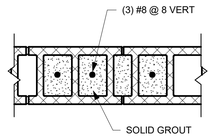


BOLT SCHEDULE		
"D"	"N"	"X"
8", 10"	2	2
12", 14"	3	3
16"	4	3
18"	5	4
21"	6	4
24"	7	5

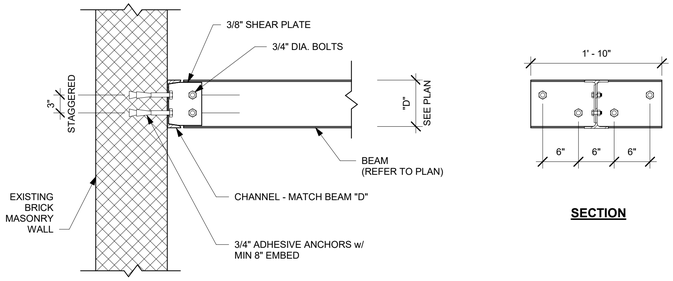
5 TYPICAL BEAM TO CONCRETE WALL CONNECTION
1" = 1'-0"



6 TYPICAL BEAM BEARING ON CMU DETAIL
3/4" = 1'-0"

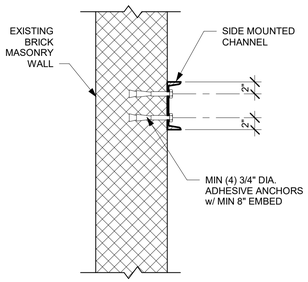


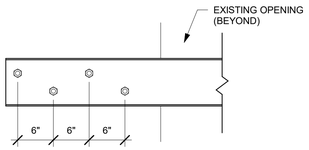
7 MASONRY COLUMN DETAIL
1" = 1'-0"



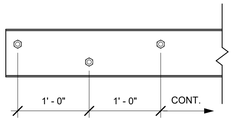
SECTION

8 TYPICAL BEAM TO EXISTING BRICK MASONRY WALL CONNECTION
1" = 1'-0"





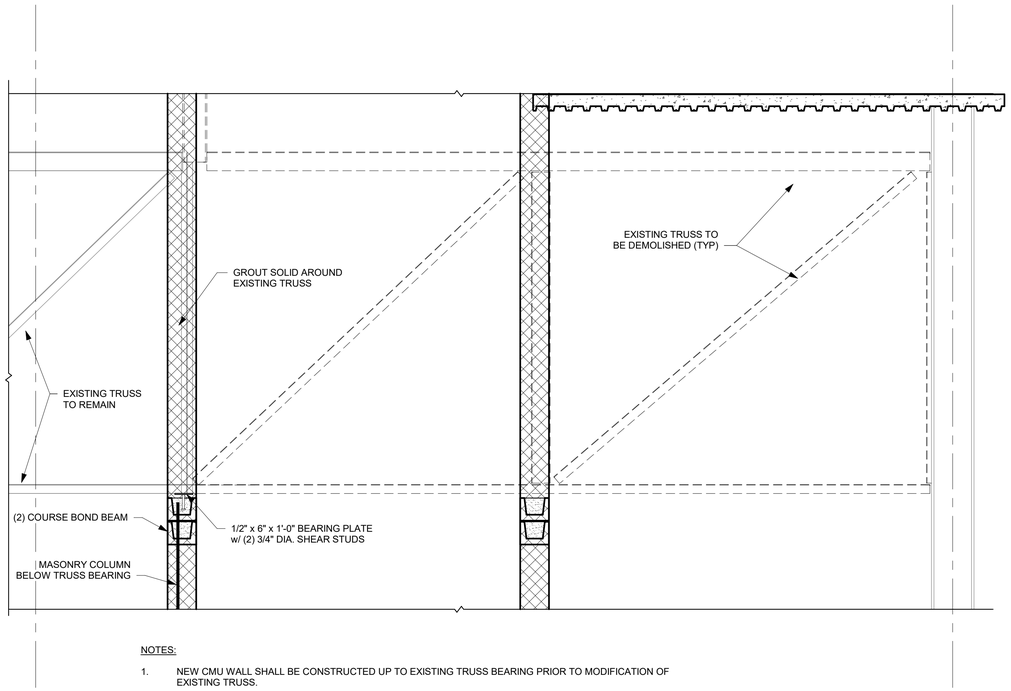
SECTION @ OPENING



SECTION @ CONTINUOUS

NOTE: PROVIDE SIDE MOUNTED CHANNEL AS INDICATED ON PLANS. PROVIDE C8x11.5 SIDE MOUNTED CHANNEL AS REQUIRED TO SUPPORT METAL DECK WHERE NOT INDICATED ON PLANS.

10 TYPICAL SIDE MOUNTED CHANNEL DETAIL
1" = 1'-0"



NOTES:

1. NEW CMU WALL SHALL BE CONSTRUCTED UP TO EXISTING TRUSS BEARING PRIOR TO MODIFICATION OF EXISTING TRUSS.
2. AFTER NEW TRUSS BEARING IS INSTALLED, CUT EXISTING TRUSS CHORDS AS REQUIRED AND DEMOLISH REMAINING PORTION OF TRUSS.

9 EXISTING ROOF TRUSS MODIFICATION
1/2" = 1'-0"

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DETAILS

140 LEE STREET
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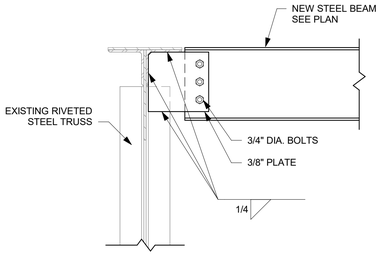
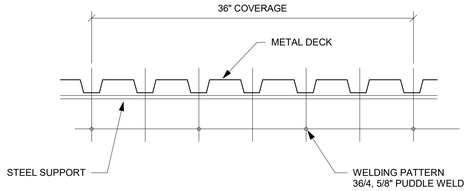
REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 10.23.19
DRAWN BY: Author
PROJECT NUMBER: 18-2145

SHEET NUMBER:
S.402



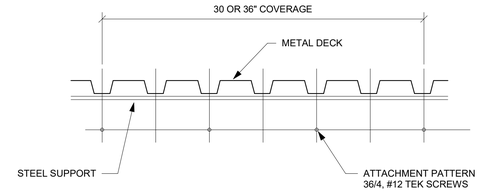
1 TYPICAL BEAM TO EXISTING TRUSS CONNECTION
1" = 1'-0"



NOTES:

1. COMPOSITE METAL DECK SHALL BE 1 1/2", TYPE VL, 20 GAGE GALVANIZED METAL DECK.
2. DECK SHALL BE ATTACHED TO STEEL SUPPORTS AS SHOWN ABOVE, AND AS FOLLOWS;
   A. PROVIDE MINIMUM (2) SIDELAP WELDS EACH SPAN.
   B. AT DISCONTINUOUS SIDES, WELD DECK TO STEEL EDGE SUPPORTS AT 16" MAXIMUM SPACING.

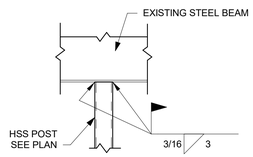
2 COMPOSITE METAL DECK DETAIL
3/4" = 1'-0"



NOTES:

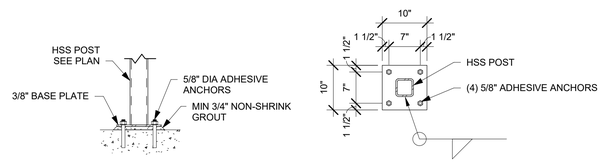
1. METAL ROOF DECK SHALL BE 1 1/2", TYPE B, 20 GAGE GALVANIZED METAL DECK.
2. DECK SHALL BE ATTACHED TO STEEL SUPPORTS AS SHOWN ABOVE, AND AS FOLLOWS;
   A. PROVIDE MINIMUM (1) SIDELAP WELDS EACH SPAN.
   B. AT DISCONTINUOUS SIDES, ATTACH DECK TO STEEL EDGE SUPPORTS AT 24" MAXIMUM SPACING WITH #12 TEK SCREWS.
   C. ATTATCH DECK TO MASONRY WALLS WITH 3/8" TAPCONS.

3 METAL ROOF DECK DETAIL
3/4" = 1'-0"

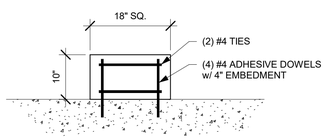


NOTE: INSTALL POST SNUG TO BOTTOM OF EXISTING BEAM

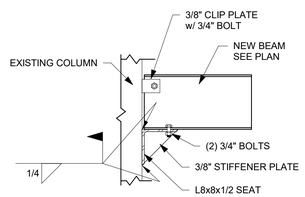
4 POST TOP DETAIL
3/4" = 1'-0"



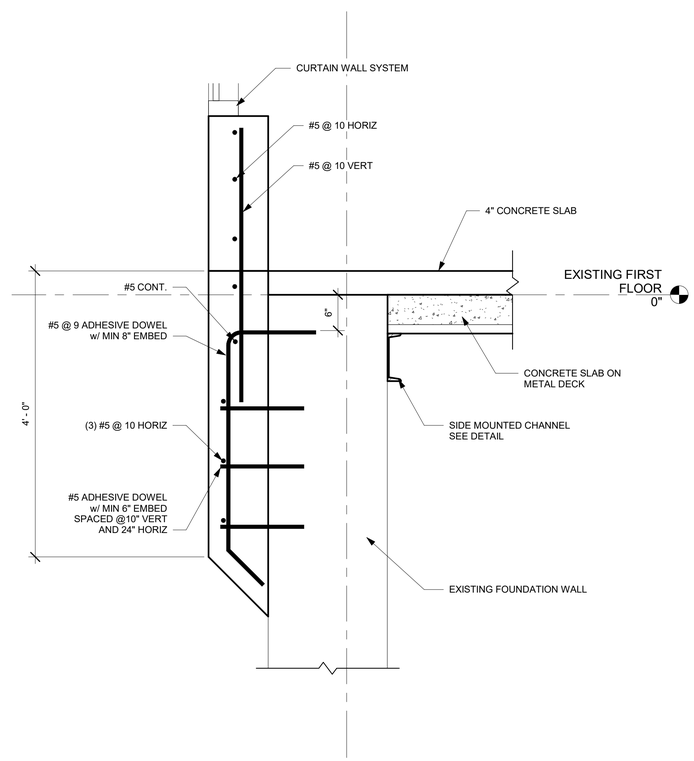
5 POST BASE DETAIL
3/4" = 1'-0"



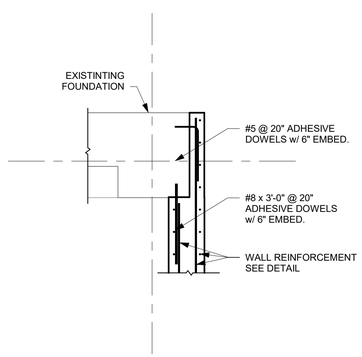
6 CONCRETE POST BASE
3/4" = 1'-0"



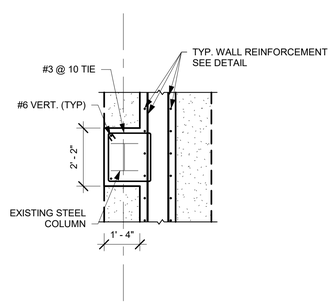
7 SEAT CONNECTION DETAIL
3/4" = 1'-0"



8 CORBEL WALL DETAIL
1" = 1'-0"



9 TYP. FOUNDATION WALL @ EXISTING
3/8" = 1'-0"



10 EXISTING COLUMN ENCASMENT @ NEW WALL
3/8" = 1'-0"

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DETAILS

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	As indicated
DATE:	10.23.19
DRAWN BY:	BTM
PROJECT NUMBER:	18-2145

SHEET NUMBER:

S.403

PLAN NOTES:

1. EXISTING FIRST FLOOR ELEVATION ESTABLISHED AS DATUM 0'-0". SECOND FLOOR ELEVATION = 31'-3". TOP OF STEEL ELEVATION [-5 1/2"] FROM SECOND FLOOR ELEVATION.
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION OF FLOOR FRAMING MEMBERS.
3. REFER TO 200 SERIES DRAWINGS FOR NEW FRAMING NOT INDICATED ON THIS DRAWING.

1 2nd FLOOR FRAMING PLAN
1/8" = 1'-0"

2 2nd FLOOR BOTTOM CHORD BRACING PLAN
1/8" = 1'-0"

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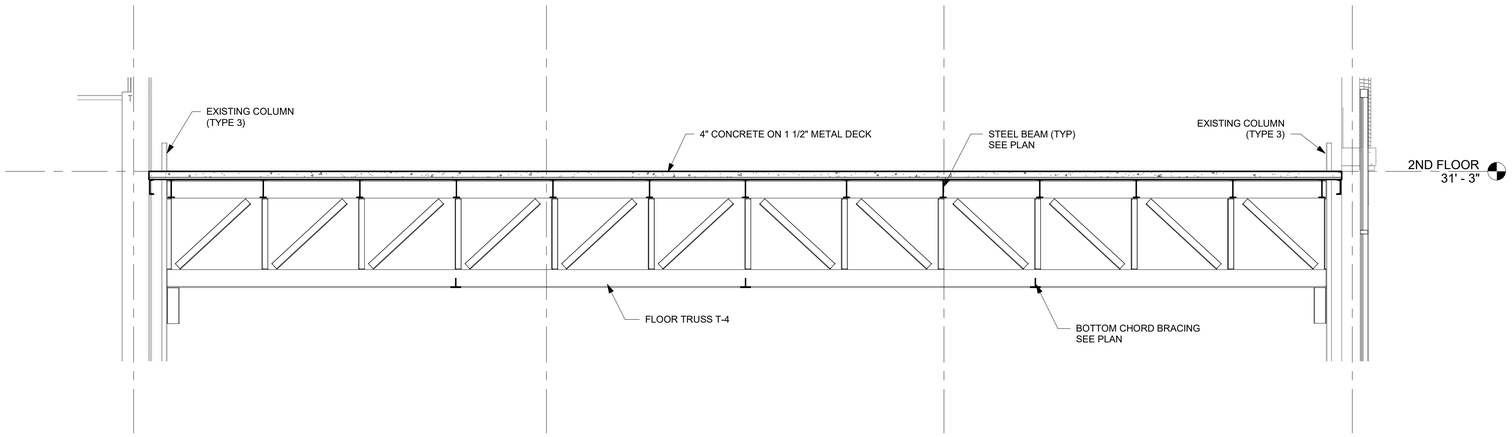
2nd FLOOR FRAMING PLANS

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE
1	REVISIONS

SCALE: 1/8" = 1'-0"
DATE: 10.23.19
DRAWN BY: Author
PROJECT NUMBER: 18-2145

SHEET NUMBER:
FF-1



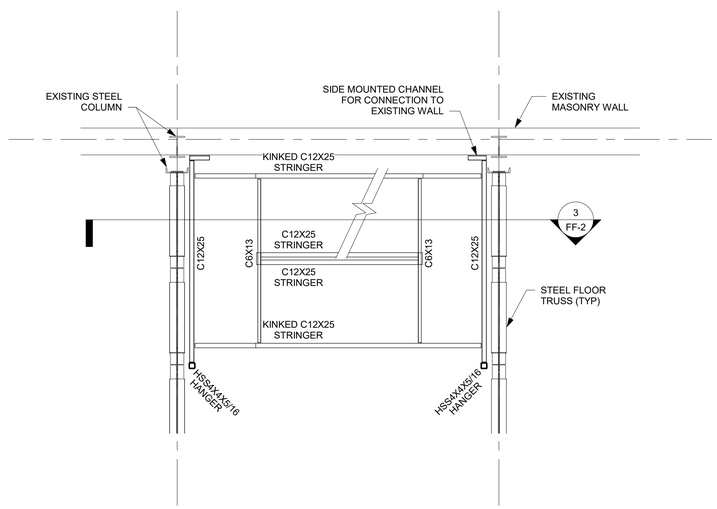
1 TYP. SECTION @ 2nd FLOOR TRUSS
1/4" = 1'-0"

GENERAL NOTES

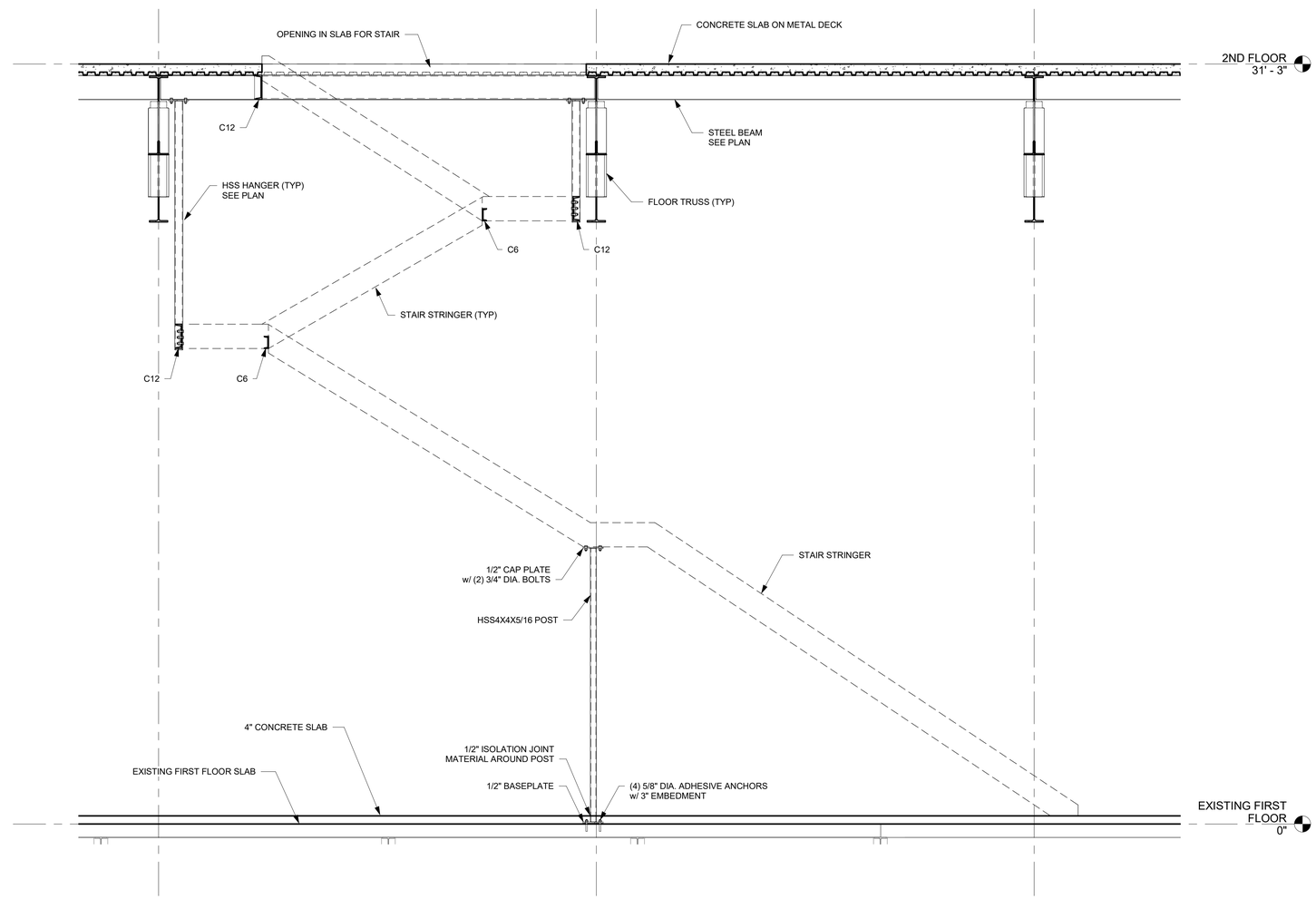
1. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE AND SHALL NOTIFY ARCHITECT/ ENGINEER IN WRITING OF DISCREPANCIES. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB. VERIFICATION OF EXISTING DIMENSIONS AND CONDITIONS SHALL BE DONE PRIOR TO PREPARATION OF SHOP DRAWINGS.
3. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE OF NEW YORK STATE, THE AISC CODE, THE ACI BUILDING CODE (ACI 318, ACI 530), THE AMERICAN WELDING SOCIETY CODE AND ALL OTHER APPLICABLE ASTM STANDARDS. IN CASES OF CONFLICT, THE MOST STRINGENT SHALL GOVERN
4. COORDINATE STRUCTURAL WORK WITH ALL OTHER TRADES.
5. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STRUCTURE IS STABLE UNTIL ALL STRUCTURAL ELEMENTS ARE INSTALLED PER DOCUMENTS.
6. DO NOT SCALE DRAWINGS

FRAMING NOTES:

1. TOP OF STEEL (T.O.S.) (DECK BEARING) ELEVATION = (-)5 1/2"
2. PROVIDE 4" CONCRETE SLAB REINFORCED W/ 6x6xW2.9xW2.9 WWM ON 1-1/2" METAL DECK OVER ENTIRE FRAMED AREA. TOTAL FLOOR THICKNESS 5 1/2". METAL FLOOR DECK SHALL BE 1 1/2" x 20 GA COMPOSITE METAL DECK WITH 6" ON CENTER SPACING AND 2-5/8" MAXIMUM FLUTE OPENING, AND GALVANIZED COATING. FASTEN DECK TO STRUCTURAL STEEL WITH 5/8" DIAMETER PUDDLE WELDS SPACED 12" O.C. (OR PER MANUFACTURER'S INSTRUCTIONS) AND SIDELAPS FASTENED TOGETHER WITH #10 TEK SCREWS AT MIDSPAN. FIELD TOUCH-UP ALL SCRAPED AND RUSTED STEEL SURFACES AND PAINT ALL FIELD WELDS AND BOLTED CONNECTIONS.
3. SEE ARCHITECTURAL DRAWING SET AND SPECIFICATIONS FOR ALL FLOOR SLAB FINISHES.
4. CONTRACTOR SHALL ENSURE A FLAT AND LEVEL SLAB SURFACE. U.N.O.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWING SET. NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES IN DRAWINGS PRIOR TO BEGINNING WORK.



2 ENLARGED STAIR FRAMING PLAN
1/4" = 1'-0"



3 SOUTH STAIR SECTION
3/8" = 1'-0"

GENERAL NOTES:

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CERTIFICATE OF AUTHORIZATION

Harrington Architecture
Design, Development, & Green Consulting
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Phone: 716-640-0737
Email: dwh@harrington-architecture.com

SECTIONS AND NOTES

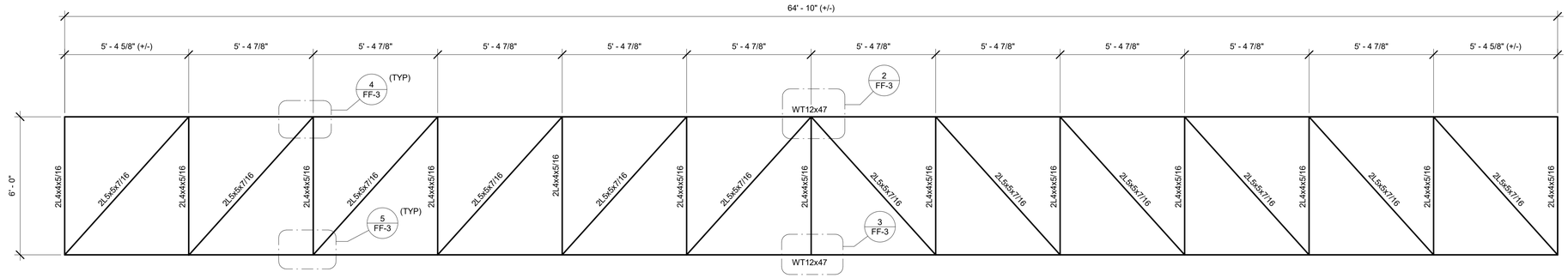
140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

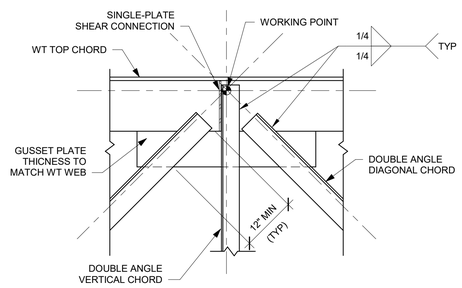
SCALE:	As indicated
DATE:	10.23.19
DRAWN BY:	Author
PROJECT NUMBER:	18-2145

SHEET NUMBER:

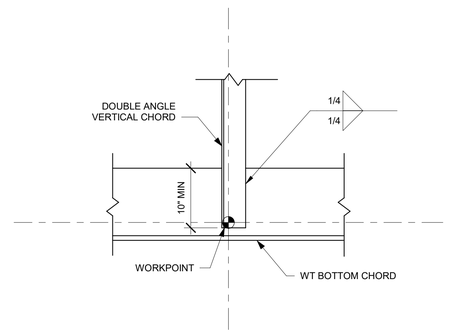
FF-2



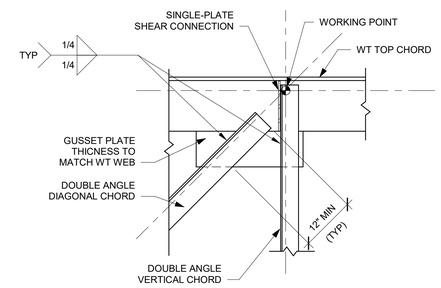
1 FLOOR TRUSS T-4
3/8" = 1'-0"



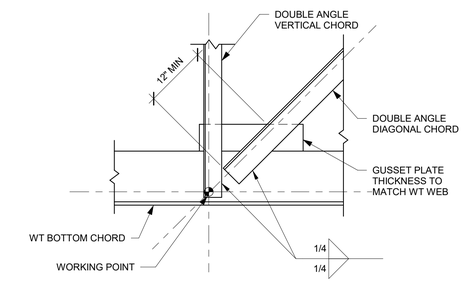
2 TRUSS CONNECTION DETAIL
3/4" = 1'-0"



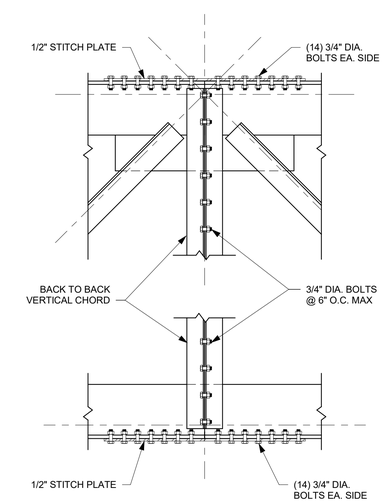
3 TRUSS CONNECTION DETAIL
1" = 1'-0"



4 TRUSS CONNECTION DETAIL
3/4" = 1'-0"



5 TRUSS CONNECTION DETAIL
3/4" = 1'-0"



6 TYPICAL TRUSS SPLICE
3/4" = 1'-0"

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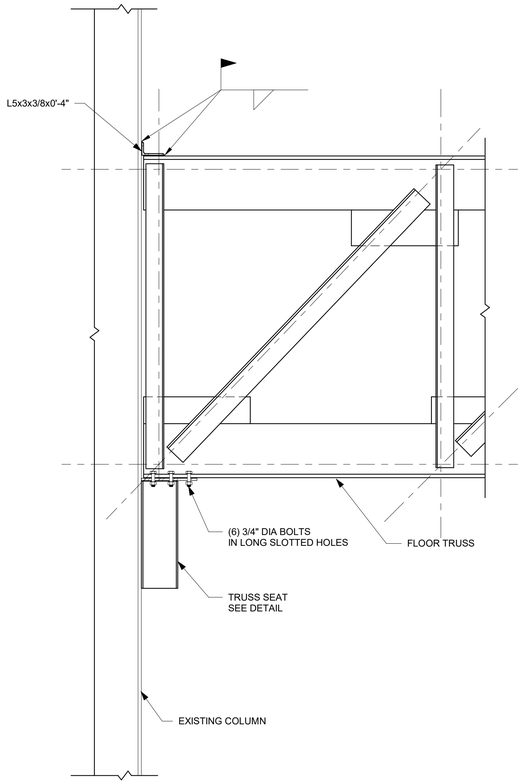
FLOOR TRUSS DETAILS

140 LEE STREET
BUFFALO, NY

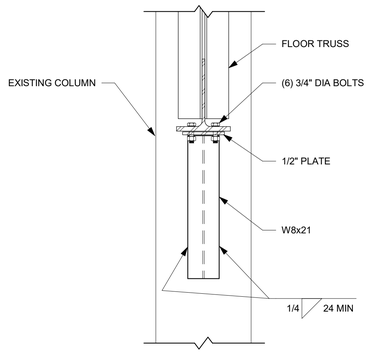
REVISION NUMBER	REVISION DATE

SCALE: As indicated
DATE: 10.23.19
DRAWN BY: Author
PROJECT NUMBER: 18-2145

SHEET NUMBER:
FF-3



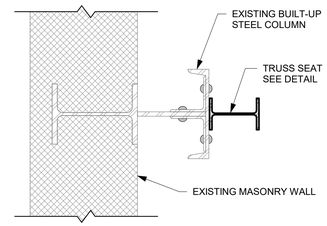
1 TYPICAL FLOOR TRUSS END CONNECTION
3/4" = 1'-0"



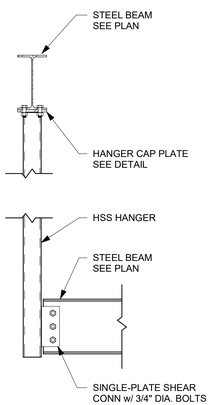
TRUSS SEAT NOTES:

1. PROVIDE STANDARD SLOTTED HOLES IN TRUSS BOTTOM CHORD FOR ADJUSTABILITY.

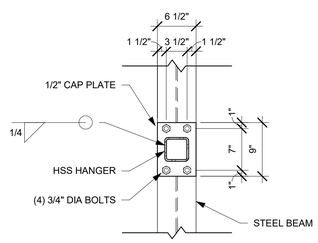
2 TYPICAL TRUSS SEAT
1" = 1'-0"



3 SEAT @ EXISTING COLUMN DETAIL
1" = 1'-0"



7 TYPICAL HANGER DETAIL
3/4" = 1'-0"



8 HANGER CAP PLATE
1" = 1'-0"

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DETAILS

140 LEE STREET
BUFFALO, NY

REVISION NUMBER	REVISION DATE

SCALE:	As indicated
DATE:	10.23.19
DRAWN BY:	Author
PROJECT NUMBER:	18-2145

SHEET NUMBER:

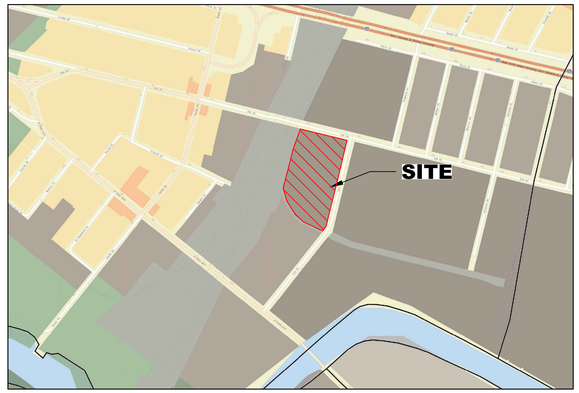
FF-4

Powerhouse

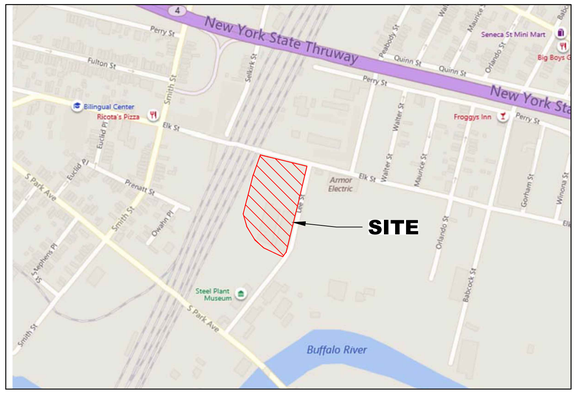
229 Elk Street

City of Buffalo, County of Erie, New York 14210

AERIAL PHOTO
NTS



ZONING MAP
NTS



LOCATION MAP
NTS

Green Code Zoning 2017

- N-1D (Downtown Hub)
- N-1C (Mixed-Use Core)
- N-1S (Secondary Employment Cen
- N-2C (Mixed-Use Center)
- N-2E (Mixed-Use Edge)
- N-2R (Residential)
- N-3C (Mixed-Use Center)
- N-3E (Mixed-Use Edge)
- N-3R (Residential)
- N-4-30 (Single Family)
- N-4-50 (Single Family)
- D-OS (Square)
- D-IOG (Green)
- D-ON (Natural)
- D-R (Residential Campus)
- D-E (Educational Campus)
- D-M (Medical Campus)
- D-S (Retail Strip)
- D-C (Flex Commercial)
- D-IL (Light Industrial)
- D-IH (Heavy Industrial)
- C-R (Rail Corridor)

ZONING INFORMATION

ZONING: D-1H HEAVY INDUSTRIAL

	REQUIRED	PROVIDED
MIN. LOT AREA	5,000 S.F.	262,551 S.F.
MIN. LOT WIDTH	50'	709.59'
MAX. BUILDING COVERAGE	100%	10.5%
MAX. IMPERVIOUS COVERAGE	100%	51.1%
MIN. FRONT YARD SETBACK	0'	107.2'
MIN. SIDE YARD	0'	64.2'
MIN. REAR YARD SETBACK	0'	151.7'

DRAWING INDEX

SHEET TITLE	SHEET NUMBER
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SITE LAYOUT AND UTILITY PLAN	4 OF 11
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DETAILS - WATER AND SANITARY SEWER	7 OF 11
DETAILS - LANDSCAPING / EROSION & SEDIMENT CONTROL	8 OF 11
DETAILS - DRAINAGE	9 OF 11
DETAILS - PAVING AND WZTC	10 OF 11
TYPICAL SECTIONS	11 OF 11

*SUPPLEMENTAL PLAN -
NORFOLK SOUTHERN PIPELINE OCCUPANCY PLAN - FACILITY CROSSING
PLAND AND PROFILE - SHEET 1 OF 1, DATED 8-23-19 - LAST REVISED 10-15-19

NO.	DATE	REVISIONS
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION
1		
2		
3		
4		
5		
6		
7		
8		

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STATE OF NEW YORK ★ LICENSED PROFESSIONAL ENGINEER ★ 0014076

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PHONE/FAX (716) 754-2256
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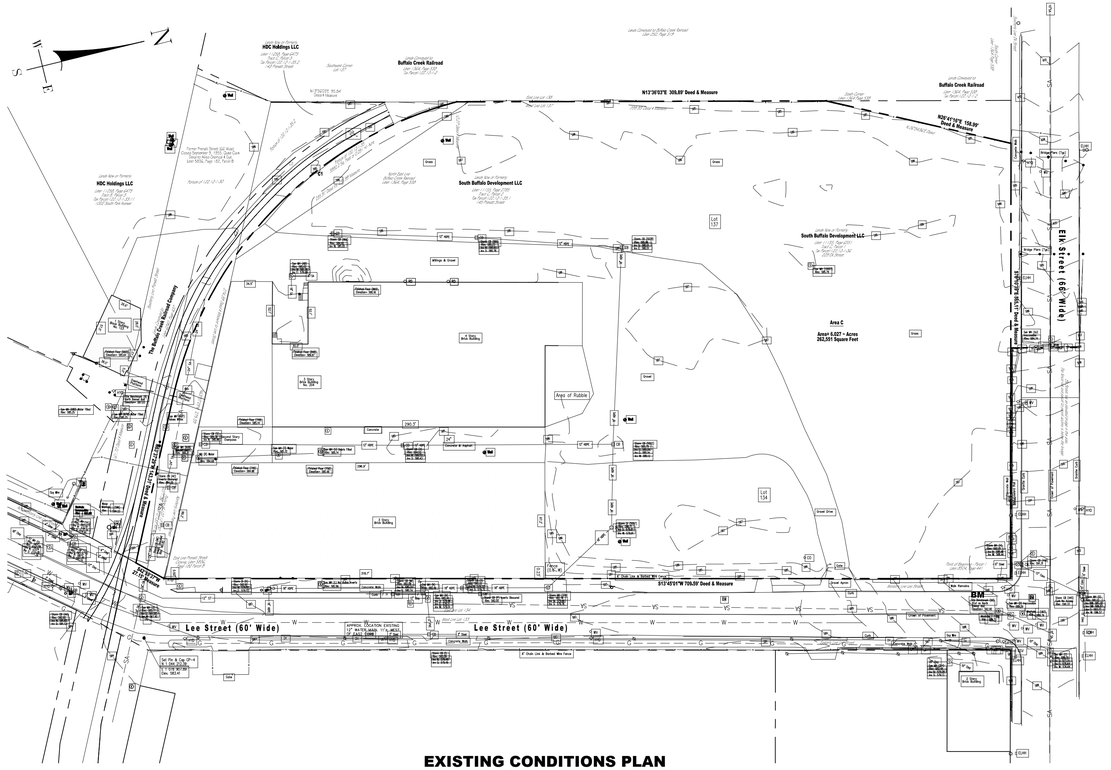
COVER SHEET

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
330 Ohio Street
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale: AS NOTED | date: 11-6-19 | project no.: 18-4805 | sheet: 1 of 11



EXISTING CONDITIONS PLAN

SCALE: 1" = 60'-0"

Legend

Abbreviations

- Ex = Existing
- E = East
- N = North
- W = West
- S = South
- R.O.W. = Right of Way
- A.K.A. = also known as
- EM — Electric Meter
- Well — Monitoring Well
- ELHH — Electric Hand Hole
- Deciduous Tree
- Bush
- Coniferous Tree
- Electric Manhole
- N B W S / 5 0 3 4 9 — Cap Detail

Symbols

- Sanitary Manhole
- Cleanout
- Catch Basin
- Drain Inlet
- Storm Manhole
- Yard Drain
- Cable TV
- Electric Riser
- Power Pole
- Guy Wire Anchor
- Telephone Riser
- Fire Hydrant
- Water Valve
- Water Service Valve
- Gas Line Marker
- Gas Valve
- Gas Service Valve
- Sign
- MailBox
- Metal Post
- Concrete R.O.W. Monument
- Light Standard
- Telephone Manhole
- Bollard
- Irrigation Control Valve

Line Styles

- SA — Sanitary Sewer
- ST — Storm Sewer
- W — Water Line
- GL — Gas Line
- T — Telephone Wires or Cables
- E — Electric Wires or Cables
- OH — Overhead Wires
- 100 — Contour Line
- Centerline of Ditch
- Crown of Pavement
- Centerline of Road
- Right of Way Line
- Building Setback Line
- Easement Line
- Property Line
- UE — Underground Electric
- Fence Line
- Paint Stripe
- Former Boundary Parcel Line
- UCTV — Underground Cable TV
- UFO — Underground Fiber Optic
- Spot Elevation
- Water Manhole

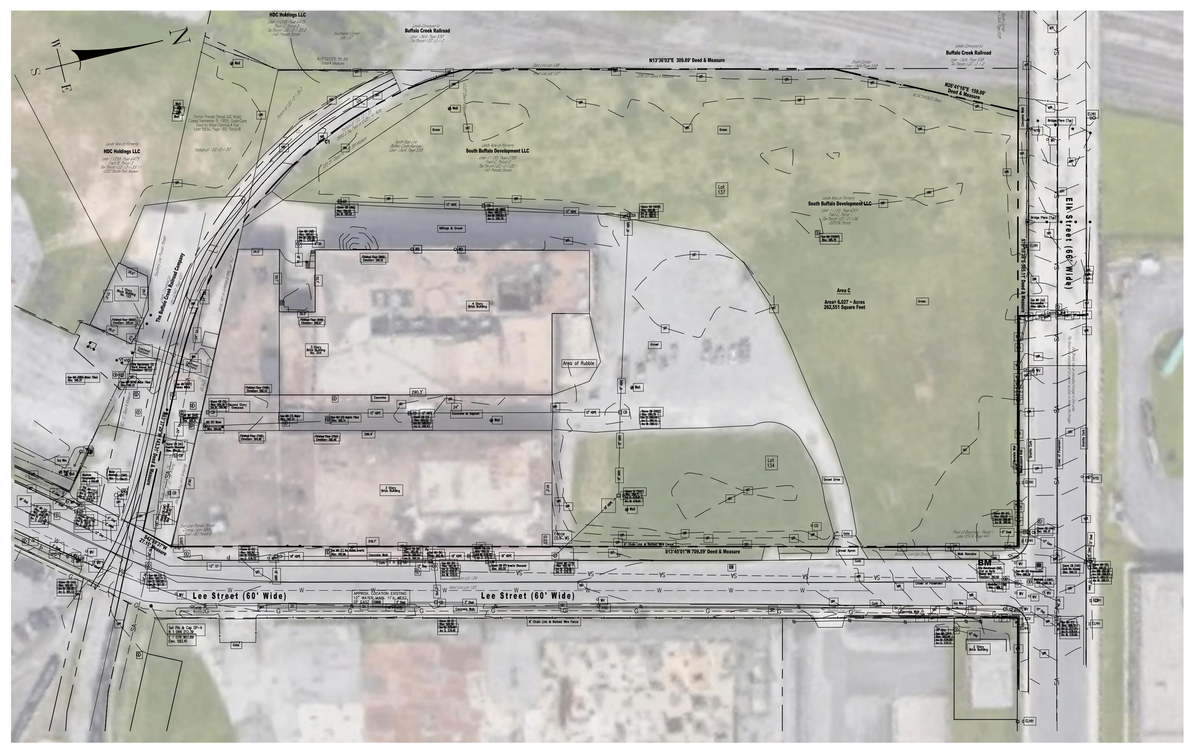
MAP REFERENCE

MAP SHOWING BOUNDARY & TOPOGRAPHIC SURVEY OF PROPERTY OWNED BY SOUTH BUFFALO DEVELOPMENT LLC, LOT 134 & 137, TOWNSHIP 10, RANGE 8, CITY OF BUFFALO, COUNTY OF ERIE, STATE OF NEW YORK; TAX PARCEL IDS: 122.12-1-35.1 & 122.12-1-36, PREPARED BY NIAGARA BOUNDARY AND MAPPING SERVICES; DATED DECEMBER 19, 2016 AND LAST REVISED JANUARY 4, 2017, JOB NO. 6941-16.

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.



EXISTING CONDITIONS W/ AERIAL

SCALE: 1" = 60'-0"

NO.	DATE	REVISIONS
8		
7		
6		
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3		
2		
1		
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

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EXISTING CONDITIONS PLAN

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
533 Seneca Street
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale:	date:	project no.:	sheet:
AS NOTED	11-6-19	18-4805	2 of 11

LEGEND

NTS

EXISTING	PROPOSED	
G	G	GAS
UE	E,T,C	UNDERGROUND ELEC/TELE/CABLE
OH	OW	OVERHEAD ELEC/TELE
W	W	WATER (FUTURE)
SA	S	SANITARY SEWER (FUTURE)
SAFM	FM	SANITARY FORCE MAIN
ST	ST	STORM SEWER
574.99	XXX	CONTOUR
XXX.XX	XXX.XX	SPOT ELEVATIONS
		FENCE
		PROPERTY/ROW LINE
		EASEMENT
		SELECT BACKFILL
		UTILITY POLE
		LIGHT
		ELECTRIC MANHOLE
SS	SMH	SANITARY MANHOLE
ST	STMH	STORM MANHOLE
		CATCHBASIN (ROADWAY)
YD		REAR YARD DRAIN (INLET)
HYD		HYDRANT
		SIGN
	GTD	GRADE TO DRAIN
WV		WATER VALVE
		TEST PIT
	TBR	TO BE REMOVED
	BM	BENCH MARK

LANDSCAPING LEGEND

NTS

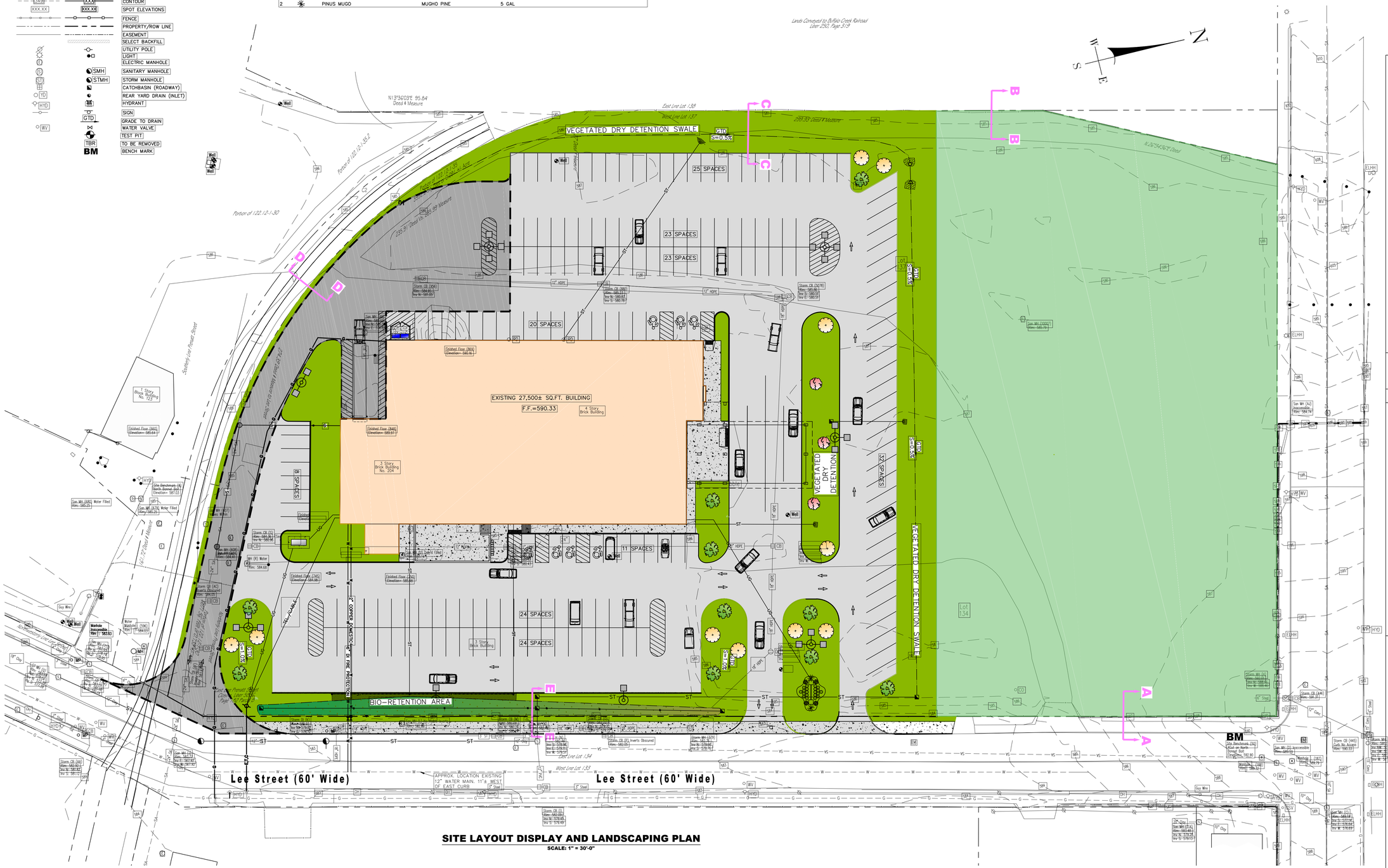
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT
10		PYRUS CALLERYANA "CLEVELAND SELECT"	CLEVELAND PEAR	3" CALIPER	B&B
10		QUERCUS PALUSTRIS	PIN OAK	3" CALIPER	B&B
3		BETULA NIGRA	RIVER BIRCH	2 ½" CAL.	B&B
4		BERBERIS THUNBERGII "CRIMSON PYGMY"	JAPANESE BARBERRY	24" SP	
20		HIBISCUS MOSCHEUTOS "DISCO BELLE"	DISCO BELLE HIBISCUS	15" SP 2 FT. O.C. SPACING; RED WHITE & PINK VARIATIONS	
2		PINUS MUGO	MUGHO PINE	5 GAL	

STANDARD DUTY ASPHALT PAVEMENT

HEAVY DUTY ASPHALT PAVEMENT

CONCRETE PADS, WALKS AND LOADING DOCKS – SEE SITE LAYOUT PLAN AND DETAILS

NOTE: SEE SHEET 11 OF 11 FOR TYPICAL SECTIONS "A-A" THRU "E-E"



SITE LAYOUT DISPLAY AND LANDSCAPING PLAN

SCALE: 1" = 30'-0"

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch =30 ft.

NO.	DATE	REVISIONS
8		
7		
6		
5		
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3		
2		
1		
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

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Prepared by:

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781 CAYUGA STREET
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PHONE (716) 754-2256
FAX (716) 754-4252

SITE LAYOUT DISPLAY AND LANDSCAPING PLAN

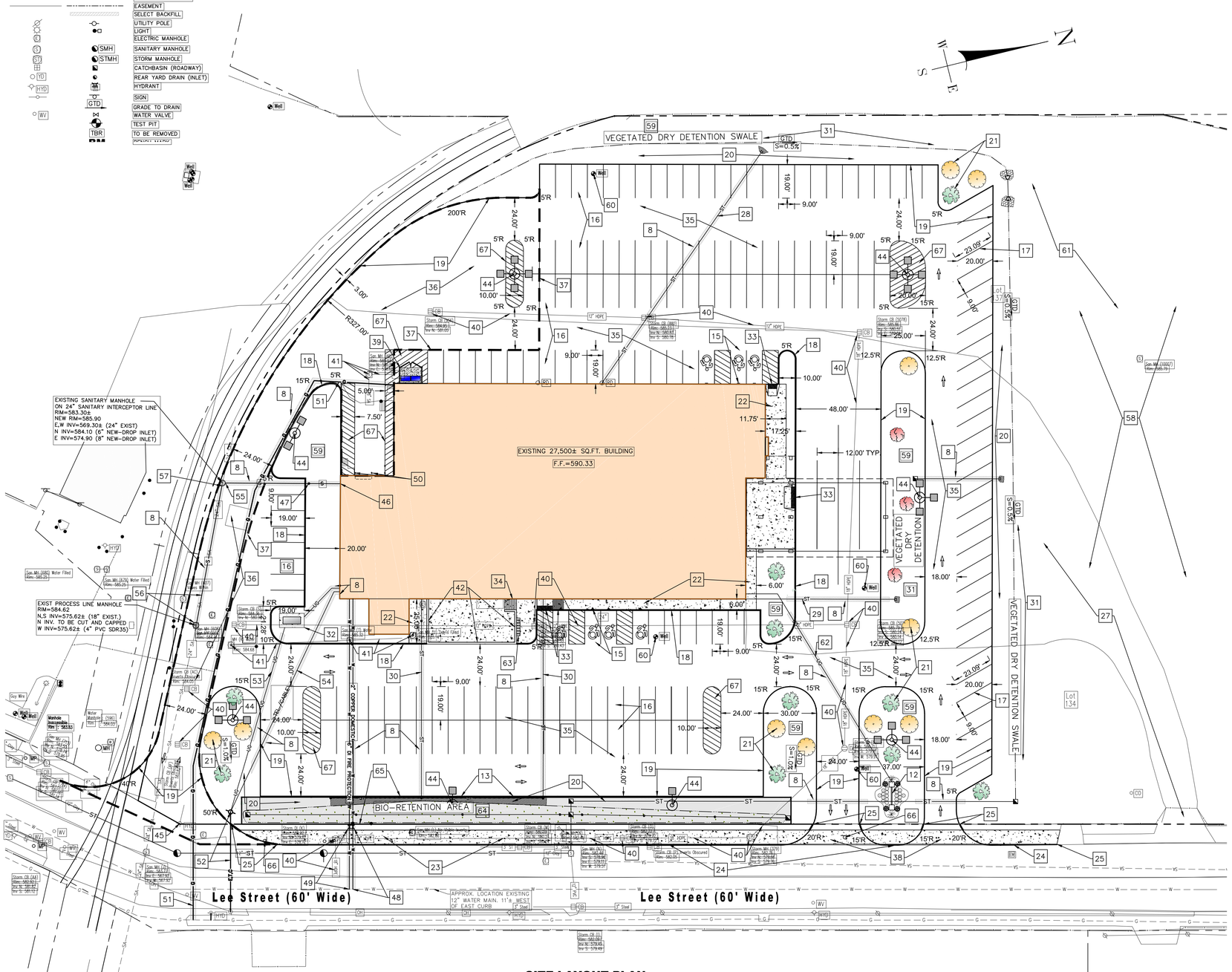
Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
3300 Orchard Park Road
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale:	date:	project no.:	sheet:
AS NOTED	11-6-19	18-4805	3 of 11

LEGEND

NTS

EXISTING	PROPOSED	
G	G	GAS
UE	E,T,C	UNDERGROUND ELEC/TELE/CABLE
OH	OW	OVERHEAD ELEC/TELE
W	W	WATER (FUTURE)
SA	S	SANITARY SEWER (FUTURE)
SAFM	FM	SANITARY FORCE MAIN
ST	ST	STORM SEWER
349	XXX	CONTOUR
XXX.XX	XXX.XX	SPOT ELEVATIONS
		FENCE
		PROPERTY/ROW LINE
		EASEMENT
		SELECT BACKFILL
		UTILITY POLE
		LIGHT
E		ELECTRIC MANHOLE
S	SMH	SANITARY MANHOLE
ST	STMH	STORM MANHOLE
		CATCHBASIN (ROADWAY)
YD		REAR YARD DRAIN (INLET)
HYD	HYD	HYDRANT
		SIGN
	GTD	GRADE TO DRAIN
WV		WATER VALVE
		TEST PIT
	TBR	TO BE REMOVED



SITE LAYOUT PLAN

SCALE: 1" = 30'-0"

X CONSTRUCTION NOTES

1. UTILITIES AS SHOWN ON THESE DRAWINGS ARE PLOTTED FROM FIELD EVIDENCE AND INFORMATION SUPPLIED BY VARIOUS UTILITY AGENCIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. ADVANCED DESIGN GROUP P.E. & L.S., P.C. ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE UNDERGROUND UTILITIES. CONTRACTORS MUST CALL U.F.P.O. AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION 1-800-962-7962. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL AREAS THAT ARE NOT PAVED OR LANDSCAPED SHALL HAVE A MINIMUM OF 24 INCHES OF CLEAN COVER ABOVER THE DELINEATION LAYER IDENTIFYING SOILS THAT EXISTED PRIOR TO CAPPING. ALL AREAS THAT ARE NOT PAVED OR LANDSCAPED MUST BE PERMANENTLY VEGETATED WITH A MINIMUM OF 4" OF TOPSOIL AND GRASS SEED AND MAINTAINED AS LAWN.
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS.
6. FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS. FILL MATERIAL IMPORTED TO THE SITE SHALL BE FROM A CLEAN BORROW SOURCE IN COMPLIANCE WITH THE SITE MANAGEMENT PLAN.
7. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
8. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, ELECT., SANITARY, STORM, WATER, ETC.) THAT CROSS THROUGH AND WITHIN FIVE (5) FEET OF ANY PAVEMENT AREA. FILL MATERIAL IMPORTED TO THE SITE SHALL BE FROM A CLEAN BORROW SOURCE IN COMPLIANCE WITH THE SITE MANAGEMENT PLAN.
9. ALL PROPOSED ELEVATIONS SHOWN HEREON ARE FINISHED GRADE ELEVATIONS.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF BUFFALO CONSTRUCTION SPECIFICATIONS, RULES AND DETAILS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AND PROVIDE ALL BONDS REQUIRED FOR THIS WORK INCLUDING, BUT NOT LIMITED TO, SITE CONSTRUCTION.
12. ALL SIGNAGE SHALL BE IN CONFORMANCE WITH THE CITY OF BUFFALO'S REGULATIONS. ALL SIGNAGE TO BE APPROVED BY THE CITY OF BUFFALO PRIOR TO INSTALLATION.
13. 6" WIDE (MIN.) PEA GRAVEL DIAPHRAGM (TYP.) ADJACENT TO BIO-RETENTION AREA – NO CURBING – SEE BIO-RETENTION AREA TYPICAL SECTION DETAIL.
14. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT, IF AVAILABLE, FOR ALL SITE WORK, OR PROVIDE TEST PITS; SUBMISSION OF A BID INDICATES THAT THE SITE CONTRACTOR AND THE GENERAL CONTRACTOR HAVE ACCEPTED THE FINDINGS OF THE REPORT/TEST PITS AND WILL PROVIDE ALL WORK IN CONFORMANCE WITH ITS RECOMMENDATIONS.
15. PROPOSED VAN ACCESSIBLE HANDICAP PARKING SPACE (9 FT. X 19 FT.) WITH HANDICAP PARKING SIGN (SEE DETAIL) AND PAVEMENT MARKINGS (TYPICAL OF 7 SPACES).
16. ALL STANDARD PARKING SPACES ARE TO BE 9 FT. X 19 FT. (TYP. OF 151 SPACES).
17. ANGLED PARKING SPACES TO BE 60'. SPACES TO BE 9 FT. WIDE AND 20 FT. DEEP (TYP. OF 32 SPACES).
18. 6" UPRIGHT CURBING – SEE CURBING DETAIL.
19. APPROXIMATE LOCATION PROPOSED EDGE OF PAVEMENT – NO CURBING –TYP.
20. SNOW STORAGE AREA (TYP.)
21. ORNAMENTAL TREE (TYP.) – SEE LANDSCAPING PLAN AND LEGEND (SHEET 3 OF 11).
22. CONCRETE SIDEWALK – SEE DETAIL.
23. EXISTING SIDEWALK ALONG LEE STREET TO BE REPLACED WITH A 8' WIDE CONCRETE SIDEWALK – SEE DETAILS.
24. 6" GRANITE CURB WITHIN LEE STREET R.O.W. – SEE DETAIL.
25. LIMIT OF LEE STREET 8' CONCRETE SIDEWALK AND 6" GRANITE CURB INSTALLATION.
26. CONTRACTOR TO COORDINATE WITH PRIVATE UTILITY OWNERS PRIOR TO START OF CONSTRUCTION AND NOTIFY DESIGN ENGINEER OF ANY UTILITY RE-LOCATIONS THAT MAY BE NECESSARY AND HAVE AN AFFECT ON THE APPROVED DESIGN (EX: POLES AND GUY WIRES, BURIED SERVICES, ETC).
27. EXISTING APRON AND GRAVEL ACCESS DRIVE TO BE UTILIZED FOR CONSTRUCTION ACCESS. GRAVEL ACCESS DRIVE TO BE REMOVED AND AREA RESTORED TO GRASS UPON COMPLETION OF CONSTRUCTION – SEE SOIL RESTORATION NOTE AND CONSTRUCTION NOTE #58.
28. ROOF LEADER FROM WESTERN PORTION OF BUILDING TO DISCHARGE TO WESTERN VEGETATED DRY DETENTION SWALE – SEE GRADING AND DRAINAGE PLAN.
29. ROOF LEADER TO DISCHARGE TO PORTE COCHERE VEGETATED DRY DETENTION SWALE – SEE GRADING AND DRAINAGE PLAN.
30. ROOF LEADER TO DISCHARGE TO LEVEL SPREADER TO BIO-RETENTION AREA – SEE GRADING AND DRAINAGE PLAN.
31. VEGETATED DRY SWALE TO BE PLANTED WITH PERMANENT VEGETATION SEED MIXTURE (SEE DETAIL) AND MAINTAINED AT A 6"± HEIGHT.
32. PROPOSED 8' X 14" CONCRETE TRANSFORMER PAD – SEE ELECTRICAL. AND ARCHITECTURAL PLANS. FINAL SIZE AND LOCATION TO BE COORDINATED WITH OWNER AND UTILITY PROVIDER.
33. CONCRETE WALK CURB RAMP – SEE DETAIL.
34. STAIRS, BY OTHERS – SEE ARCHITECTURAL PLANS.
35. STANDARD DUTY ASPHALT PAVEMENT – SEE DETAIL.
36. HEAVY DUTY ASPHALT PAVEMENT – SEE DETAIL.
37. LIMIT OF STANDARD/HEAVY DUTY PAVEMENT.
38. SIDEWALK AT DRIVEWAY CROSSING SHALL HAVE A MINIMUM THICKNESS OF 6" AND INCLUDE FIBER REINFORCEMENT WITH 3" OF TOP COVER.
39. CONCRETE DUMPSTER PAD AREA. PAD SIZE, LOCATION AND SPECIFICATIONS TO BE DETERMINED BY OWNER, CONTRACTOR AND REFUSE COMPANY PRIOR TO CONSTRUCTION. DUMPSTER AREA TO BE ENCLOSED WITH 6' CHAIN LINK GATED FENCE WITH PRIVACY SLATS.
40. EXISTING ON-SITE STORM STRUCTURE/PIPE SYSTEM TO BE CUT, CAPPED, ABANDONED IN PLACE AND FILLED WITH FLOWABLE FILL (TYP.). REMOVE ONLY AS NECESSARY TO AVOID CONFLICTS WITH PROPOSED CONSTRUCTION.
41. EXISTING ON-SITE SANITARY/PROCESS WATER MANHOLE AND PIPE SYSTEM TO BE CUT, CAPPED, ABANDONED IN PLACE AND FILLED WITH FLOWABLE FILL (TYP.). REMOVE ONLY AS NECESSARY TO AVOID CONFLICTS WITH PROPOSED CONSTRUCTION.
42. RETAINING WALL, BY OTHERS – SEE ARCHITECTURAL PLANS.
43. EXTERIOR LIGHTING FOR BUILDING TO BE DARK SKY FRIENDLY LIGHTING. LIGHTS TO BE LOCATED AT BUILDING ENTRANCES (MAN-DOORS AND OVERHEAD DOORS) FOR SAFETY. REFER TO SITE LIGHTING AND PHOTOMETRIC PLAN.
44. APPROXIMATE LOCATION SITE LIGHTING – REFER TO ELECTRICAL AND SITE LIGHTING PLANS.
45. EXISTING HYDRANT TO BE RELOCATED A MINIMUM OF 5' OUTSIDE OF PAVEMENT LIMITS. CONTRACTOR TO COORDINATE FINAL LOCATION WITH THE CITY OF BUFFALO WATER DEPARTMENT. ALL WORK SHALL BE IN CONFORMANCE WITH THE CITY OF BUFFALO'S RULES, SPECIFICATIONS AND REGULATIONS.
46. APPROXIMATE LOCATION PROPOSED 65±L.F. 6" SDR-35 PVC SANITARY SERVICE AT S=1.0% MIN. INVERT AT BUILDING = 584.75±. SANITARY SEWER SERVICE INSTALLATION TO BE IN CONFORMANCE WITH THE BUFFALO SEWER AUTHORITY'S REGULATIONS AND REQUIREMENTS.
47. APPROXIMATE LOCATION 6" D.I. SANITARY VENT, TRAP AND CLEANOUT.
48. APPROXIMATE LOCATION OF PROPOSED 4" TAPPING SLEEVE AND VALVE WITH 2" REDUCER, 160±L.F. AND 2" TYPE "K" COPPER WATER SERVICE FOR DOMESTIC USE. WATER METER AND BACKFLOW PREVENTION DEVICE TO BE LOCATED INSIDE BUILDING – SEE PLUMBING AND ARCHITECTURAL PLANS. LOCATION AND CONNECTION TO BE COORDINATED WITH THE CITY OF BUFFALO AND E.C.W.A. WATER SERVICE INSTALLATION TO BE IN CONFORMANCE WITH THE CITY OF BUFFALO AND E.C.W.A. REGULATIONS AND REQUIREMENTS. STANDARD WORK ZONE TRAFFIC CONTROL PLANS FOR SHOULDER AND LANE CLOSURES TO BE UTILIZED.
49. APPROXIMATE LOCATION OF PROPOSED 6" TAPPING SLEEVE AND VALVE AND 160±L.F. 6" DUCTILE IRON FIRE PROTECTION SERVICE. BACKFLOW PREVENTION DEVICE TO BE LOCATED INSIDE BUILDING. LOCATION AND CONNECTION TO BE COORDINATED WITH THE CITY OF BUFFALO AND E.C.W.A. WATER SERVICE INSTALLATION TO BE IN CONFORMANCE WITH THE CITY OF BUFFALO AND E.C.W.A. REGULATIONS AND REQUIREMENTS. STANDARD WORK ZONE TRAFFIC CONTROL PLANS FOR SHOULDER AND LANE CLOSURES TO BE UTILIZED.
50. 6" CONCRETE BOLLARD (TYP.OF 2) – SEE BOLLARD TYPICAL DETAIL. CENTER OF BOLLARD TO BE LOCATED 1.5' OFF BUILDING FACE AND IN LINE WITH OVERHEAD DOOR FRAME.
51. APPROXIMATE LOCATION 4" STEEL GAS SERVICE. FINAL SIZE AND LOCATION TO BE COORDINATED WITH OWNER AND UTILITY PROVIDER.
52. NEW UTILITY POLE AND OVERHEAD SERVICE BY UTILITY PROVIDER. COORDINATE LOCATION IN THE FIELD.
53. APPROXIMATE LOCATION PROPOSED UNDERGROUND ELECTRIC TO PROPOSED TRANSFORMER. INSTALLATION TO BE COORDINATED WITH UTILITY PROVIDER.
54. APPROXIMATE LOCATION PROPOSED UNDERGROUND TELEPHONE/CABLE. INSTALLATION TO BE COORDINATED WITH UTILITY PROVIDER.
55. 6" PVC SDR-35 SANITARY SERVICE CONNECTION TO EXISTING MANHOLE FOR 24" R.C.P. INTERCEPTOR SEWER. DROP INLET REQUIRED AT MANHOLE. INSTALLATION TO BE IN CONFORMANCE WITH THE BUFFALO SEWER AUTHORITY'S REGULATIONS AND REQUIREMENTS.
56. 78L.F± 8" PVC SDR-35 SANITARY CONNECTION @ S=1.0% MIN. FROM EXISTING PROCESS LINE MANHOLE TO EXISTING MANHOLE FOR 24" R.C.P. INTERCEPTOR SEWER. DROP INLET REQUIRED AT MANHOLE. INSTALLATION TO BE IN CONFORMANCE WITH THE BUFFALO SEWER AUTHORITY'S REGULATIONS AND REQUIREMENTS. RIM AND INVERT INFORMATION SHOWN ON DRAWINGS IS APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ENGINEER OF RECORD TO BE NOTIFIED OF ANY DISCREPANCIES THAT CREATE A SIGNIFICANT DEVIATION FROM THE PROPOSED DESIGN.
57. 8" PVC SDR-35 SANITARY CONNECTION TO EXISTING MANHOLE FOR 24" R.C.P. INTERCEPTOR SEWER. DROP INLET REQUIRED AT MANHOLE. INSTALLATION TO BE IN CONFORMANCE WITH THE BUFFALO SEWER AUTHORITY'S REGULATIONS AND REQUIREMENTS.
58. ADDITIONAL CLEAN FILL TO BE ADDED TO ENTIRE CURRENTLY UNDEVELOPED NORTHERN AREA TO PROVIDE A MINIMUM OF 2 FEET OF CLEAN SOIL, INCLUSIVE OF TOPSOIL.
59. ALL GREENSPACE SHALL HAVE A MINIMUM OF 2 FEET OF CLEAN FILL, INCLUSIVE OF TOPSOIL – SEE NOTE #2.
60. EXISTING MONITORING WELL. INSTALL FLUSH MOUNT WELL CAP AND ADJUST RIM ELEVATION TO PROPOSED GRADE.
61. MONITORING WELLS OUTSIDE OF LIMIT OF DISTURBANCE TO BE PROTECTED AND PLACED IN WELL VAULTS FOR MONITORING – SEE SHEET 6 OF 11 FOR LIMIT OF DISTURBANCE.
62. APPROX. LOCATION UNDERGROUND ELECTRICAL SERVICE TO PROPOSED SIGN. FINAL SIZE AND LOCATION TO BE COORDINATED WITH OWNER. SEE ELECTRICAL DRAWINGS.
63. APPROXIMATE LOCATION PROPOSED BIKE RACK. FINAL LOCATION AND DESIGN TO BE COORDINATED WITH OWNER.
64. BIO-RETENTION AREA PLANTINGS TYPE TO BE OBTAINED FROM TABLE H.5 NATIVE PLANT GUIDE FOR STORMWATER MANAGEMENT AREAS (NY) LOCATED IN APPENDIX H OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL. PLANTINGS MUST BE ZONE 2 COMPLIANT. PLANT SELECTION SHALL BE DIVERSE. LAYOUT SHALL BE RANDOM AND NATURAL. PLANTINGS SHALL BE PLACED APPROX. 18" ON CENTER. – SEE SAMPLE BIO-RETENTION AREA PLANTING PLAN SHEET 9 OF 11.
65. APPROXIMATE AREA OF 20 MIL. (MIN.) LLDPE MEMBRANE LINER ABOVE GEOTEXTILE FABRIC. PIPE LINER BOOT REQUIRED AT ALL PIPE PENETRATIONS OF LINER.
66. RELOCATE EXISTING RAILROAD CROSSING WARNING SIGN. FINAL LOCATION TO BE COORDINATED WITH THE CITY OF BUFFALO AND RAIL LINE OWNER (NORFOLK SOUTHERN).
67. PAVEMENT MARKING HATCHED ISLAND. MARKINGS TO BE ON 45° ANGLE WITH 2' SEPARATION.

NO.	DATE	REVISIONS
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION
1		
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STATE OF NEW YORK ★ 201401078 ★ LICENSED PROFESSIONAL ENGINEER

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SITE LAYOUT AND UTILITY PLAN

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210

prepared for:
South Buffalo Development, LLC
3333 Genesee Street
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

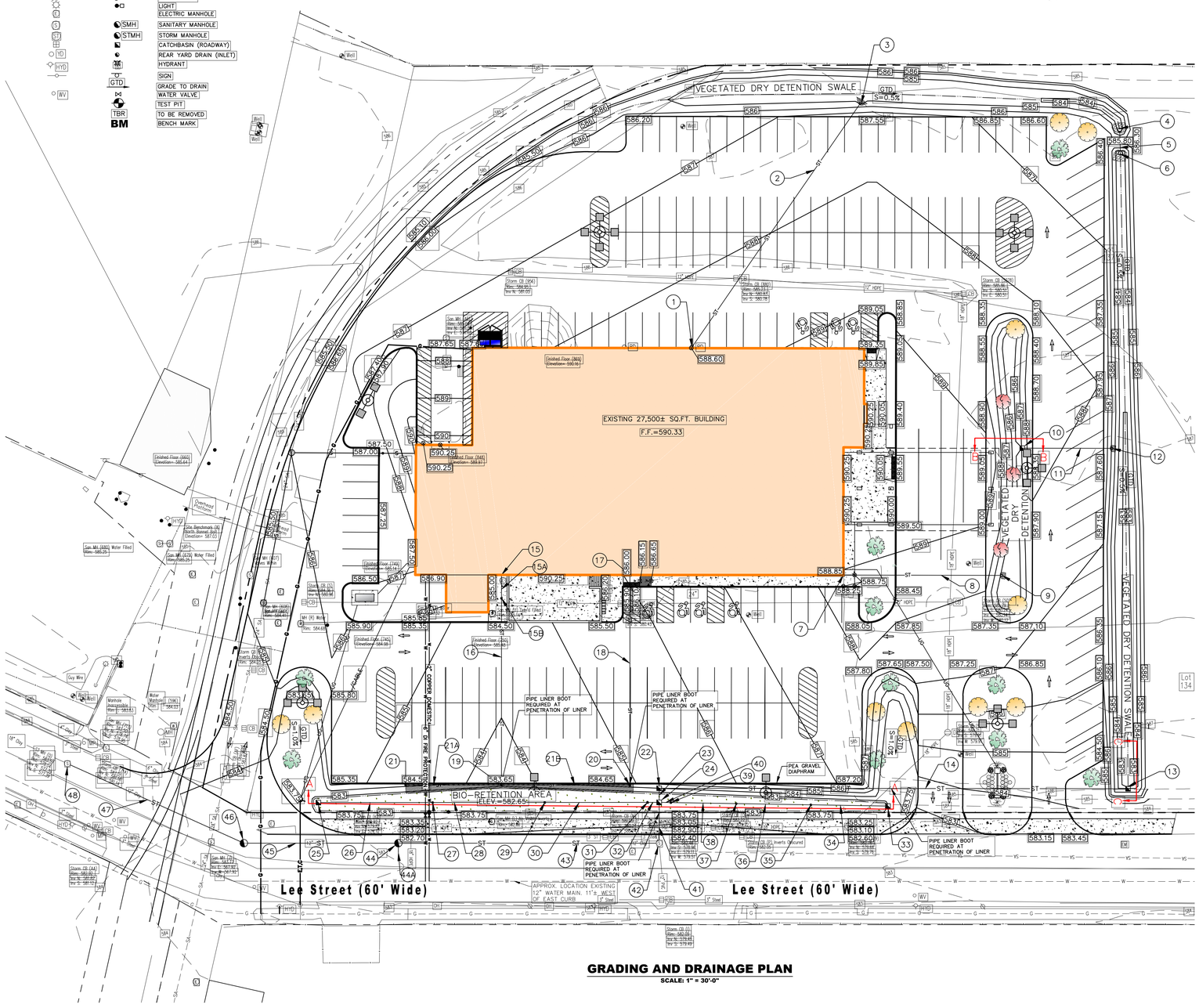
scale:	date:	project no.:	sheet:
AS NOTED	11-6-19	18-4805	4 of 11

LEGEND

NTS

EXISTING	PROPOSED	
G	G	GAS
UE	E,T,C	UNDERGROUND ELEC/TELE/CABLE
OH	OW	OVERHEAD ELEC/TELE
W	W	WATER (FUTURE)
SA	S	SANITARY SEWER (FUTURE)
SAFM	FM	SANITARY FORCE MAIN
ST	ST	STORM SEWER
349	XXX	CONTOUR
XXX.XX	XXX.XX	SPOT ELEVATIONS
		FENCE
		PROPERTY/ROW LINE
		EASEMENT
		SELECT BACKFILL
		UTILITY POLE
		LIGHT
E		ELECTRIC MANHOLE
S	SMH	SANITARY MANHOLE
ST	STMH	STORM MANHOLE
		CATCHBASIN (ROADWAY)
YD		REAR YARD DRAIN (INLET)
HYD		HYDRANT
		SIGN
	GTD	GRADE TO DRAIN
WV		WATER VALVE
		TEST PIT
	TBR	TO BE REMOVED
	BM	BENCH MARK

NOTE: SEE SHEET 9 OF 11 FOR BIO-RETENTION AREA AND VEGETATED DRY DETENTION TYPICAL SECTIONS "A-A" THRU "C-C"



GRADING AND DRAINAGE PLAN

SCALE: 1" = 30'-0"

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

(XX) STORM STRUCTURE TABLE

1 ROOF LEADER DISCHARGE
INV @ BLDG. = 585.80± (10")

2 160 L.F. 10" HDPE @ S=0.5% MIN.
W/ WATERTIGHT JOINTS

3 PIPE OUTLET W/ END SECTION
AND ROCK OUTLET PROTECTION
INV=585.00 (10")

4 PIPE INLET W/ END SECTION
AND ROCK INLET PROTECTION
INV=583.75 (12")

5 10L.F. 12" HDPE @ S=0.5%

6 PIPE OUTLET W/ END SECTION
AND ROCK OUTLET PROTECTION
INV=583.70 (12")

7 ROOF LEADER DISCHARGE
INV @ BLDG = 586.85± (6")

8 85L.F. 6" HDPE @ S=1.0% MIN.
W/ WATERTIGHT JOINTS

9 PIPE OUTLET W/ END SECTION
AND ROCK OUTLET PROTECTION
INV=586.00 (8")

10 CATCH BASIN (24" I.D.)
PORTE COCHERE VEG. SWALE OUTLET
RIM=587.15
S INV=585.75 (4" ORIFICE W/ TRASH RACK)
N INV=585.75 (10")

11 50L.F. 10" HDPE @ S=0.2%
W/ WATERTIGHT JOINTS

12 PIPE OUTLET W/ END SECTION
AND ROCK OUTLET PROTECTION
INV=585.65 (10")

13 CATCH BASIN
VEGETATED SWALE OUTLET STRUCTURE
RIM=585.00
W INV=582.00 (6" ORIFICE W/ TRASH RACK)
S INV=582.00 (8")

14 250 L.F. 8" HDPE @ S=0.5%
W/ WATERTIGHT JOINTS AND
PIPE LINER BOOT AT PENETRATION

15 ROOF LEADER CONNECTION
INV @ BLDG. = 583.77± (6")

15A 12 L.F. 6" HDPE @ S=1.0%

15B YARD DRAIN (6")
RIM=584.85
W,E INV=583.65 (6")

16 100 L.F. 6" HDPE @ S=1.0%
W/ WATERTIGHT JOINTS AND
PIPE LINER BOOT AT PENETRATION

17 ROOF LEADER CONNECTION
INV @ BLDG. = 583.77± (8")

18 112 L.F. 8" HDPE @ S=1.0%
W/ WATERTIGHT JOINTS AND
PIPE LINER BOOT AT PENETRATION

19 8" X 6" X 6" TEE W/ 6" RISER
YARD DRAIN
RIM=583.65
W INV=582.65 (6")
S INV=582.65 (6" PERF.)
N INV=582.65 (8" PERF.)

20 YARD DRAIN (6" RISER)
RIM=584.10
W INV=582.65 (8")
S INV=582.65 (8" PERF.)

21 YARD DRAIN (6" RISER)
RIM=584.10
N INV=582.65 (6" PERF.)

21A LEVEL SPREADER – SEE DETAIL
50L.F. 6" PERF. HDPE @ S=0.0%

21B LEVEL SPREADER – SEE DETAIL
70L.F. 8" PERF. HDPE @ S=0.0%

22 CATCH BASIN (24" I.D.)
RIM=584.00
N,E INV=580.75 (8")

23 5L.F. 8" PVC @ S=0.5%

24 CATCH BASIN (24" I.D.)
BIO-RETENTION AREA & SITE
OUTLET STRUCTURE
RIM=583.15
W INV=580.72 (8")
E INV=580.26 (12")
N,S INV=580.26 (4")

25 CATCH BASIN (24" I.D.)
RIM=583.15
N INV=579.62 (4" PERF.)

26 60L.F. 4" PERF. HDPE @ S=0.2%

27 YARD DRAIN (4" RISER)
RIM=583.15
S,N INV=579.50 (4" PERF.)

28 60L.F. 4" PERF. HDPE @ S=0.2%

29 YARD DRAIN (4" RISER)
RIM=583.15
S,N INV=579.38 (4" PERF.)

30 55L.F. 4" PERF. HDPE @ S=0.2%

31 BIO-RETENTION AREA ELBOW ASSEMBLY
S INV=579.27 (4" PERF.)
N INV=580.27 (4")

32 5L.F. 4" HDPE @ S=0.2%

33 CATCH BASIN (24" I.D.)
RIM=583.15
S INV=579.50 (4" PERF.)

34 40L.F. 4" PERF. HDPE @ S=0.2%)

35 YARD DRAIN (4" RISER)
RIM=583.15
S,N INV=579.42 (4" PERF.)

36 40L.F. 4" PERF. HDPE @ S=0.2%

37 YARD DRAIN (4" RISER)
RIM=583.15
S,N INV=579.34 (4" PERF.)

38 35L.F. 4" PERF. HDPE @ S=0.2%

39 BIO-RETENTION AREA ELBOW ASSEMBLY
N INV=579.27 (4" PERF.)
S INV=580.27 (4")

40 5L.F. 4" HDPE @ S=0.2%

41 20L.F. 12" HDPE @ S=6.5%

42 EXISTING STORM MANHOLE
RIM=582.46
W INV=579.51 (10" T.B.R.)
W INV=578.96 (12" NEW)
E INV=579.11 (12")
S INV=578.96 (12" T.B.R)
S INV=578.96 (18" NEW)

43 REMOVE 138L.F. EXIST. 12" CLAY STORM PIPE
@ S=0.49% AND REPLACE WITH 138L.F.18"
PVC SDR-35 @ S=0.49%

44 STORM MANHOLE (48")
RIM=582.9± (MATCH EXIST. GRADE)
N,S INV=578.28 (18")
E INV=578.28 (6" STUB)

44A 5L.F. 6" PVC SDR-35 STUB PIPE @ S=0.2%
CAP EAST END – FOR FUTURE USE

45 REMOVE 82L.F. EXIST. 12" CLAY STORM PIPE
@ S=0.49% AND REPLACE WITH 82L.F.18"
PVC SDR-35 @ S=0.49%

46 STORM MANHOLE (48")
RIM=583.3± (MATCH EXIST. GRADE)
N,S INV=577.88 (18")

47 REMOVE 100L.F. EXIST. 12" CLAY STORM PIPE
@ S=0.49% AND REPLACE WITH 100L.F. 18"
PVC SDR-35 PIPE @ S=0.49%
(SEE NORFOLK SOUTHERN PIPELINE
OCCUPANCY PLAN – FACILITY CROSSING PLAN
AND PROFILE. WORK TO BE COORDINATED WITH
THE BUFFALO SEWER AUTHORITY AND
NORFOLK SOUTHERN RAILROAD COMPANY)

48 EXIST. STORM MANHOLE
RIM=583.59
N INV=577.39 (12"T.B.R.– 18" NEW)
S INV=577.39 (18" EXIST.)

NO.	DATE	REVISIONS
8		
7		
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1	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

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STATE OF NEW YORK · PROFESSIONAL ENGINEER & LAND SURVEYOR · LICENSED PROFESSIONAL ENGINEER · 071401

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GRADING AND DRAINAGE PLAN

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
333 Gateway Street
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

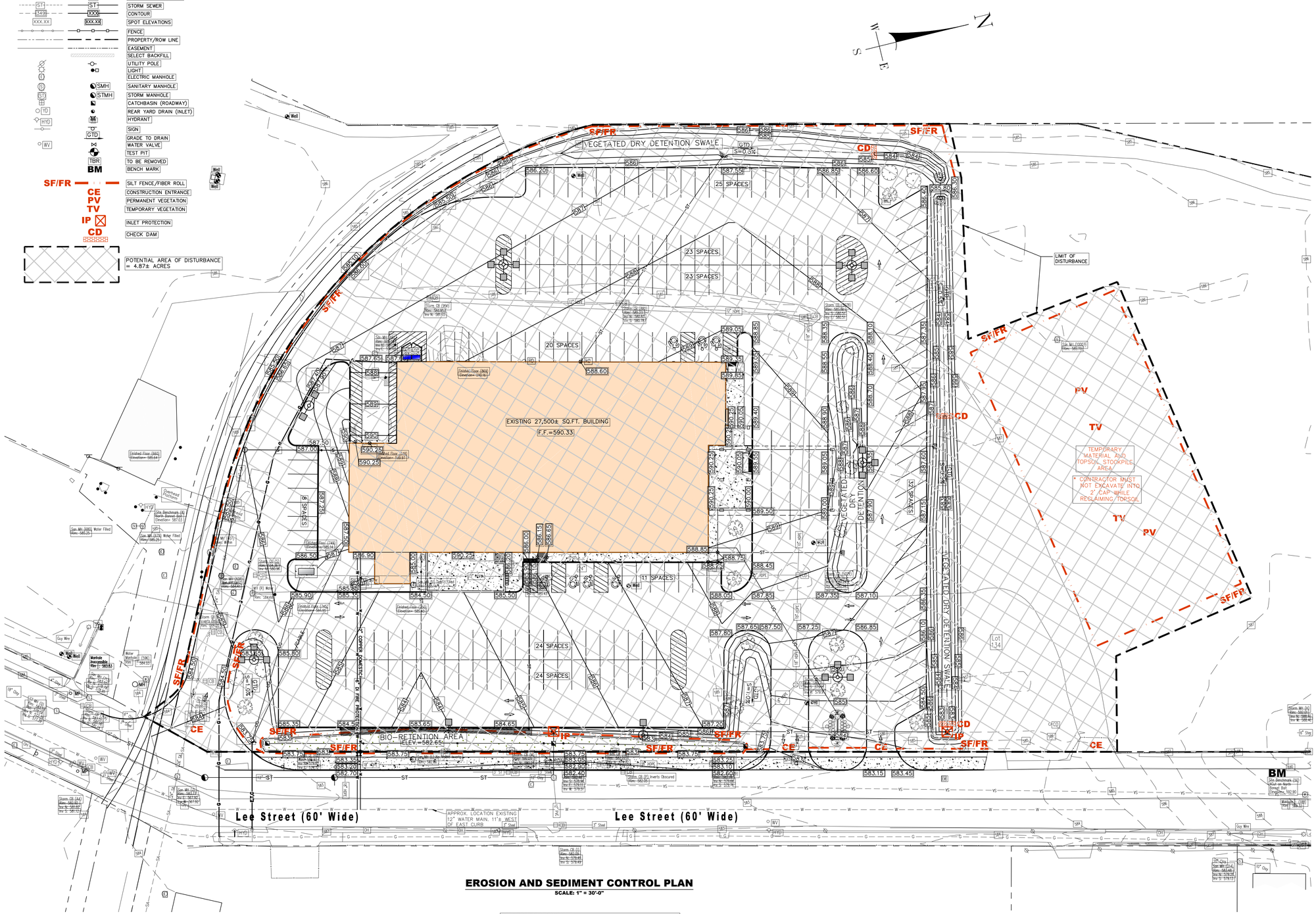
sheet: 5 of 11
project no.: 18-4905
date: 11-6-19
scale: AS NOTED

LEGEND

NTS

EXISTING	PROPOSED	
G	G	GAS
UE	E,T,C	UNDERGROUND ELEC/TELE/CABLE
OH	OW	OVERHEAD ELEC/TELE
W	W	WATER (FUTURE)
SA	S	SANITARY SEWER (FUTURE)
SAFM	FM	SANITARY FORCE MAIN
ST	ST	STORM SEWER
XXX	XXX	CONTOUR
XXX.XX	XXX.XX	SPOT ELEVATIONS
		FENCE
		PROPERTY/ROW LINE
		EASEMENT
		SELECT BACKFILL
		UTILITY POLE
		LIGHT
		ELECTRIC MANHOLE
	SMH	SANITARY MANHOLE
	STMH	STORM MANHOLE
		CATCHBASIN (ROADWAY)
YD		REAR YARD DRAIN (INLET)
HYD		HYDRANT
	GTD	SIGN
WV		GRADE TO DRAIN
		WATER VALVE
		TEST PIT
	TBR	TO BE REMOVED
	BM	BENCH MARK
SF/FR		SILT FENCE/FIBER ROLL
CE		CONSTRUCTION ENTRANCE
PV		PERMANENT VEGETATION
TV		TEMPORARY VEGETATION
IP		INLET PROTECTION
CD		CHECK DAM

POTENTIAL AREA OF DISTURBANCE = 4.87± ACRES



EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 30'-0"

SOIL RESTORATION NOTE:
AREAS THAT ARE DISTURBED AND TO BE VEGETATED SHALL BE TILLED, SPREAD WITH 4" OF TOPSOIL AND SEEDED.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NO.	DATE	REVISIONS
8		
7		
6		
5		
4		
3		
2		
1		
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

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STATE OF NEW YORK ★ PROFESSIONAL ENGINEERS & LAND SURVEYORS ★ LICENSED PROFESSIONAL ENGINEER 081480

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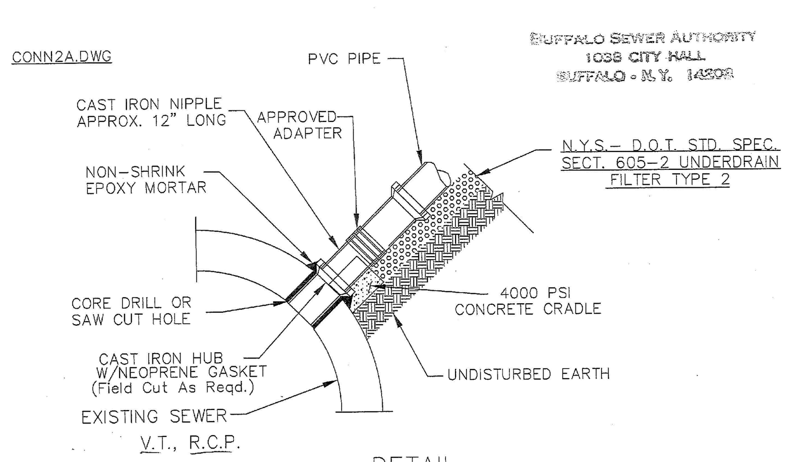
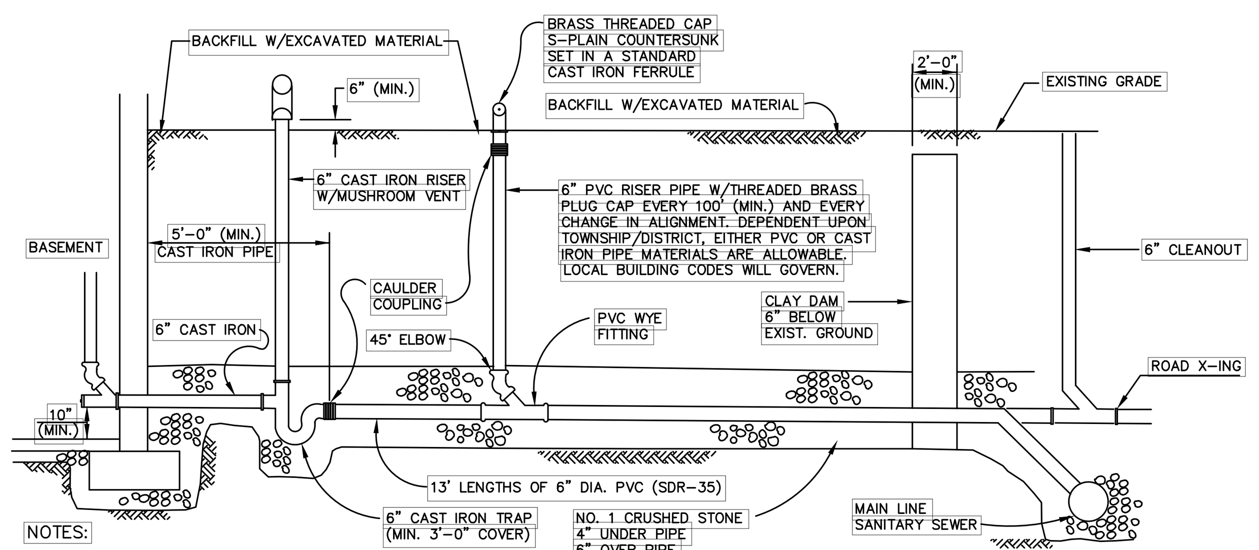
EROSION, SEDIMENT CONTROL & DISTURBANCE PLAN

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
333 Gateway Street
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale: AS NOTED | date: 11-6-19 | project no.: 18-4905 | sheet: 6 of 11



DETAIL
TYPICAL CONNECTION
TO EXISTING SEWER
N.T.S.

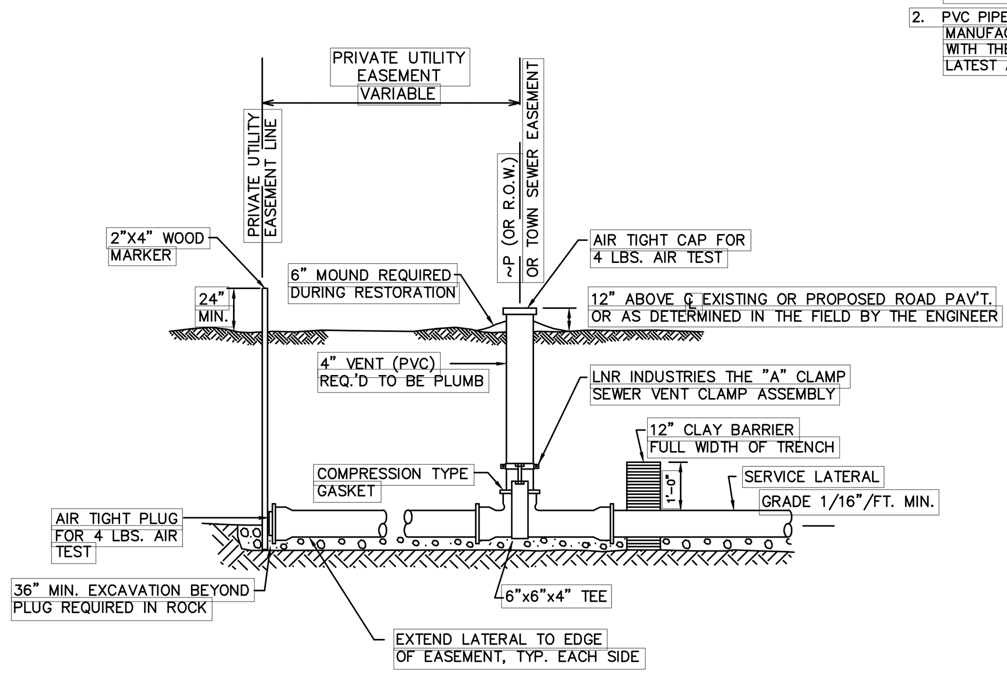


NOTES:

1. THE SERVICE LATERAL MUST BE INSTALLED A MINIMUM OF 10" ABOVE BASEMENT FLOOR.
2. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION D-3033/D-3034. CAST IRON PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF ASTM A74-42.
3. PIPE SHALL BE LAID AT 1/8" PER FOOT (MIN.), 1/4" PER FOOT (MAX.) GRADE.
4. A MANUAL VALVE SHALL BE INSTALLED ON BASEMENT LAUNDRY DRAIN LINE.
5. VENTS AND CLEANOUTS MUST BE INSTALLED IN LAWN AREAS, NOT IN SIDEWALK OR DRIVEWAY AREAS.
6. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
7. CONCRETE ENCASEMENT IF DEPTHS LESS THAN 6' UNDER PAVED AREAS.
8. MINIMUM DEPTH 3'.
9. SPECIAL CARE SHALL BE USED TO CONSTRUCT A CLAY DAM AS ILLUSTRATED TO PREVENT GROUND WATER MOVEMENT.

TYPICAL COMMERCIAL SERVICE DETAIL

NTS



CLEANOUT TEE & VENT DETAIL

NTS

TRENCH NOTES

NOTE 1:

REPLACE PAVEMENT IN THICKNESS AND KIND, OR AS REQUIRED BY APPROPRIATE AUTHORITY.

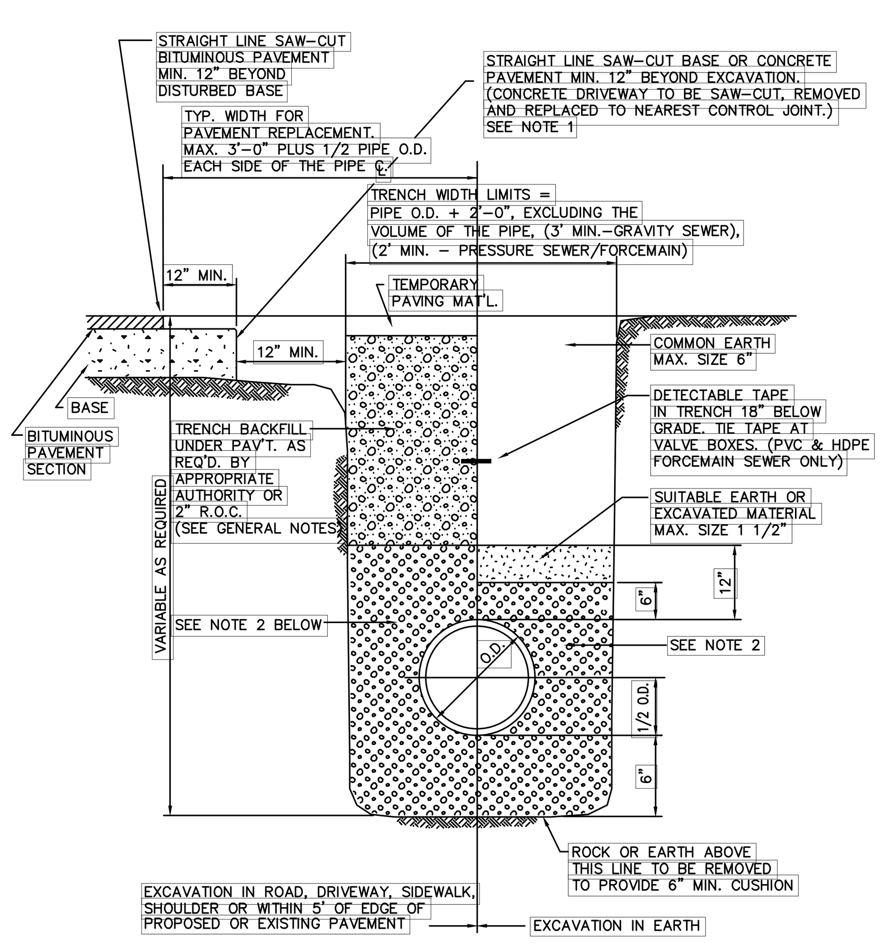
A. MINIMUM STANDARD FOR DRIVEWAY
CONCRETE – 6" –4000 P.S.1. CONCRETE WITH 4x4 – W2.9xW2.9 W.W.F.
4" –2" R.O.C. SUB BASE COURSE
ASPHALT – 1" –N.Y.S.D.O.T. ITEM 403.18 TYPE 7 TOP
1 1/2" –N.Y.S.D.O.T. ITEM 403.13 TYPE 3 BINDER
6" –2" R.O.C. SUB BASE COURSE
STONE – 1/2" –No. 1A STONE COMPACTED ON SURFACE
8" –2" R.O.C. SUB BASE COURSE

B. MINIMUM STANDARD FOR ROAD
CONCRETE – 9" –4000 P.S.I. CONCRETE WITH 6x6 – W2.9xW2.9 W.W.F. TOP AND BOTTOM
ASPHALT – 1" –N.Y.S.D.O.T. ITEM 403.18 TYPE 7 TOP
1 1/2" –N.Y.S.D.O.T. ITEM 403.13 TYPE 3 BINDER
3 –N.Y.S.D.O.T. ITEM 403.12 TYPE 2 BASE
12" –2" R.O.C. SUB BASE COURSE,
NYSDOT ITEM NO. 304.03 TYPE 2 (2–6" LIFTS)

NOTE 2:

BEDDING:
No. 1 STONE FROM 6" BELOW TO 6" OVER PIPE. CONTINUE BEDDING TO ONE (1) FOOT OVER PIPE WHERE EXCAVATION IS WITHIN PROPOSED OR EXISTING PAVEMENT OR SHOULDER, EXISTING DRIVEWAY, WITHIN 5' OF EDGE OF PROPOSED OR EXISTING PAVEMENT, IN AREAS OF ROCK EXCAVATION OR WHERE EXCAVATED MATERIAL IS NOT ACCEPTABLE.

GENERAL NOTES:
1. FULL DEPTH SELECT FILL REQUIRED WHEN ANY PART OF THE TRENCH EXCAVATION IS IN ROAD, DRIVEWAY, SIDEWALK, SHOULDER OR WITHIN FIVE FEET OF THE PAVEMENT EDGE.
2. ALL SELECT MATERIAL TO BE COMPACTED IN 6" LIFTS, AS PER ASTM–2774.
3. ALL EXCAVATED SOIL FROM BELOW THE DEMARCATION MATERIAL SHAL BE HANDLED IN ACCORDANCE WITH THE SMP.
4. NATIVE FILL ALLOWED ONLY IN GREEN AREAS AND ONLY BENEATH DEMARCATION LAYER.



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1 1/2" –N.Y.S.D.O.T. ITEM 403.13 TYPE 3 BINDER
3" –N.Y.S.D.O.T. ITEM 403.12 TYPE 2 BASE
12" –2" R.O.C. SUB BASE COURSE,
NYSDOT ITEM NO. 304.03 TYPE 2 (2–6" LIFTS)

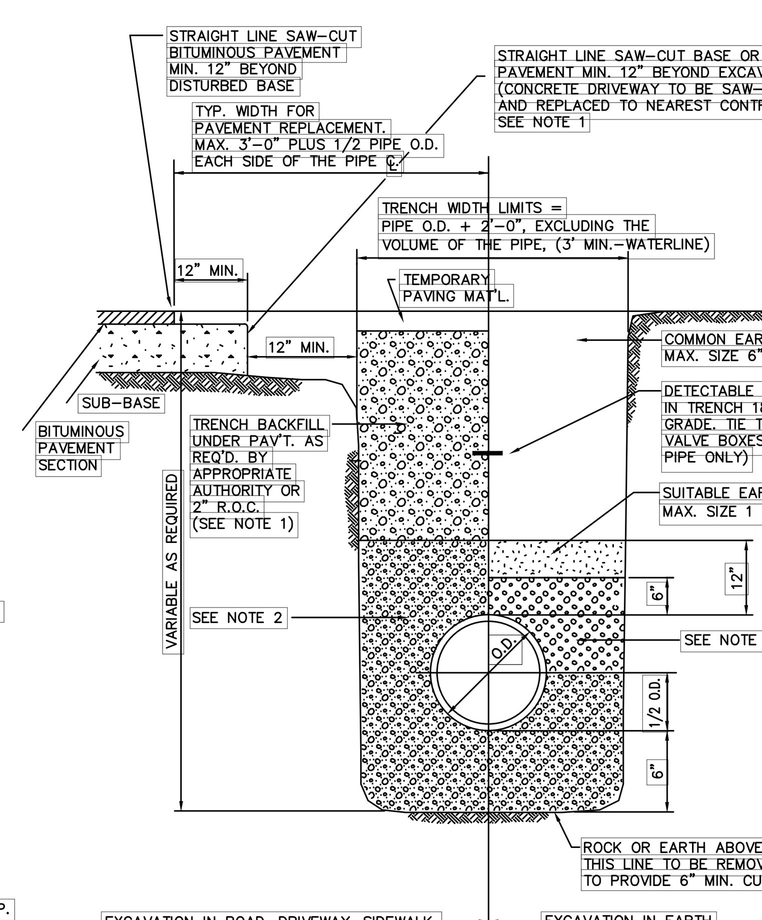
NOTE 2:

BEDDING:
No. 1 STONE FROM 6" BELOW TO 6" OVER PIPE. CONTINUE BEDDING TO ONE (1) FOOT OVER PIPE WHERE EXCAVATION IS WITHIN PROPOSED OR EXISTING PAVEMENT OR SHOULDER, EXISTING DRIVEWAY, WITHIN 5' OF EDGE OF PROPOSED OR EXISTING PAVEMENT, IN AREAS OF ROCK EXCAVATION OR WHERE EXCAVATED MATERIAL IS NOT ACCEPTABLE.

GENERAL NOTES:
1. FULL DEPTH 1" R.O.C. STONE MAY BE REQUIRED WHEN ANY PART OF THE TRENCH EXCAVATION IS IN ROAD, DRIVEWAY, SIDEWALK, SHOULDER OR WITHIN FIVE FEET OF THE PAVEMENT EDGE, OR AS DETERMINED IN THE FIELD BY THE ENGINEER.
2. ALL SELECT MATERIAL TO BE COMPACTED IN 6" LIFTS, AS PER ASTM–2774.
3. ALL EXCAVATED SOIL FROM BELOW THE DEMARCATION MATERIAL SHALL BE HANDLED IN ACCORDANCE WITH THE SMP.

TYPICAL GRAVITY SEWER AND PRESSURE SEWER/FORCEMAIN PIPE TRENCH DETAIL

NTS



TYPICAL WATERLINE TRENCH DETAIL

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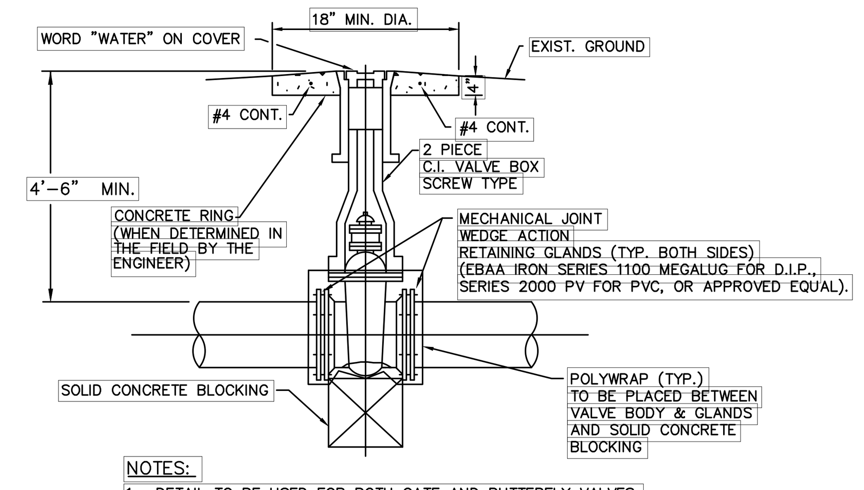
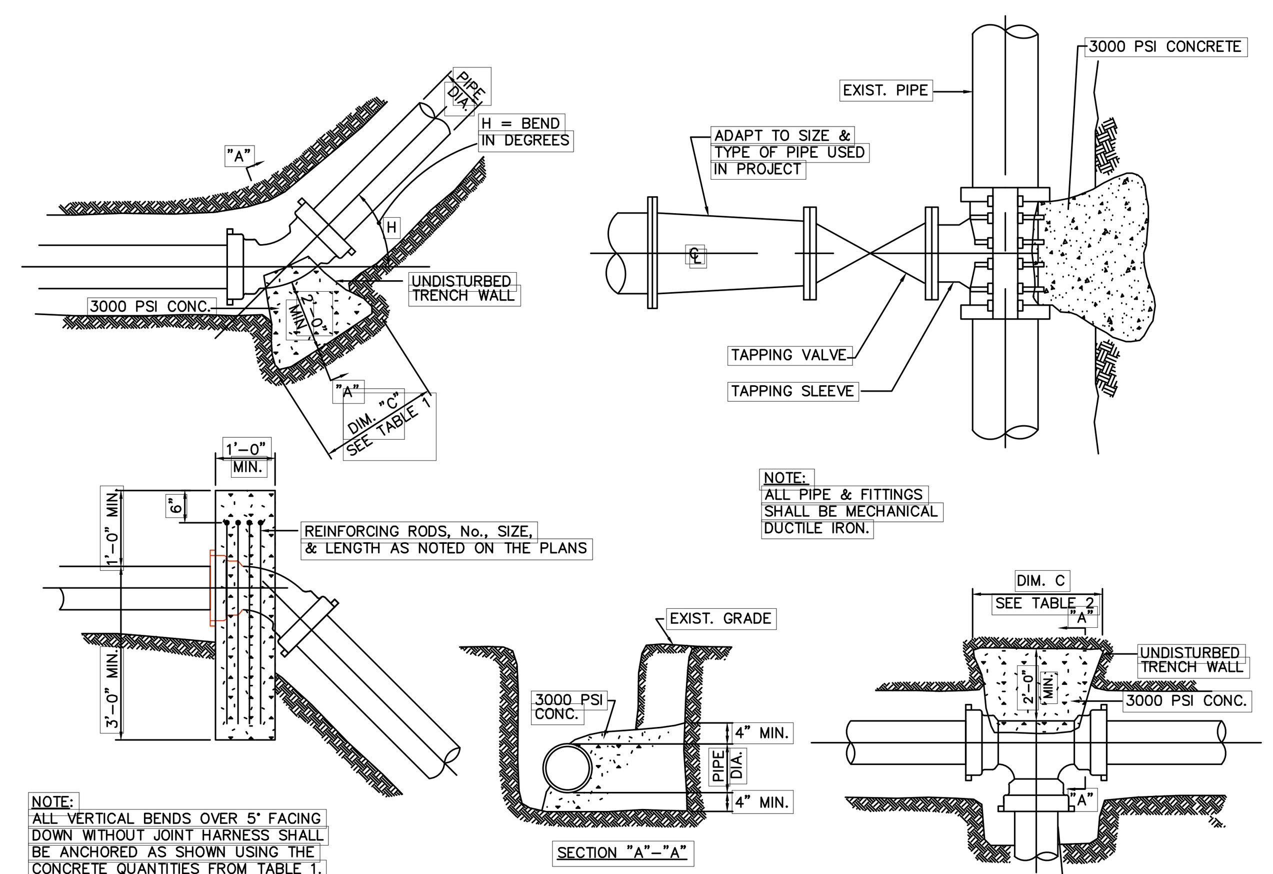


NOTES:
1. DETAIL TO BE USED FOR BOTH GATE AND BUTTERFLY VALVES.
2. EXTEND CONCRETE BLOCKING TO SUPPORT VALVE ACTUATOR BOX ON BUTTERFLY VALVES.
3. BUTTERFLY VALVES TO BE INSTALLED WITH VALVE ACTUATOR BOX ON SIDE OF MAIN AWAY FROM ROAD UNLESS OTHERWISE DETERMINED IN THE FIELD BY THE ENGINEER.

VALVE SETTING & ANCHORING

NTS



NOTE: ALL VERTICAL BENDS OVER 5° FACING DOWN WITHOUT JOINT HARNESS SHALL BE ANCHORED AS SHOWN USING THE CONCRETE QUANTITIES FROM TABLE 1.

TABLES FOR 2800 P.S.F. SOIL BEARING LOAD AT 150 PSI TEST PRESSURE

TABLE 1

BEND PIPE DIA. IN.	HORIZONTAL 5° TO 45° "C" FT. – IN.	HORIZONTAL 5° TO 45° CONC. C.Y.	HORIZONTAL 46° TO 90° "C" FT. – IN.	HORIZONTAL 46° TO 90° CONC. C.Y.	VERTICAL 5° TO 45° CONC. C.Y.	VERTICAL 46° TO 90° CONC. C.Y.
16	4–3	0.68	8–2	1.26	9.00	17.20
14	3–7	0.49	6–9	0.91	6.60	12.30
12	2–11	0.36	5–5	0.67	4.80	9.70
10	2–4	0.25	4–3	0.46	3.40	6.30
8	1–7	0.16	3–0	0.30	2.20	4.00
6	1–0	0.10	1–11	0.17	1.20	2.30

TABLE 2

BRANCH PIPE DIA. IN.	"C" FT. – IN.	QUAN. OF CONC. C.Y. TEE'S & PLUGS	QUAN. OF CONC. C.Y. WYE'S
16	7–6	0.62	0.85
14	5–9	0.48	0.66
12	4–0	0.33	0.60
10	3–2	0.25	0.43
8	2–3	0.16	0.29
6	1–8	0.10	0.18

TYPICAL DETAILS FOR CONCRETE BACKING OF PRESSURE PIPE

NTS

RESTRAINT LENGTH BASED ON THE FOLLOWING: PVC PIPE MATERIAL, SOIL TYPE: CL, TRENCH TYPE: 4, TEST PRESSURE: 150 PSI, FACTOR OF SAFETY: 1.5, DEPTH OF BURY: 4.5'

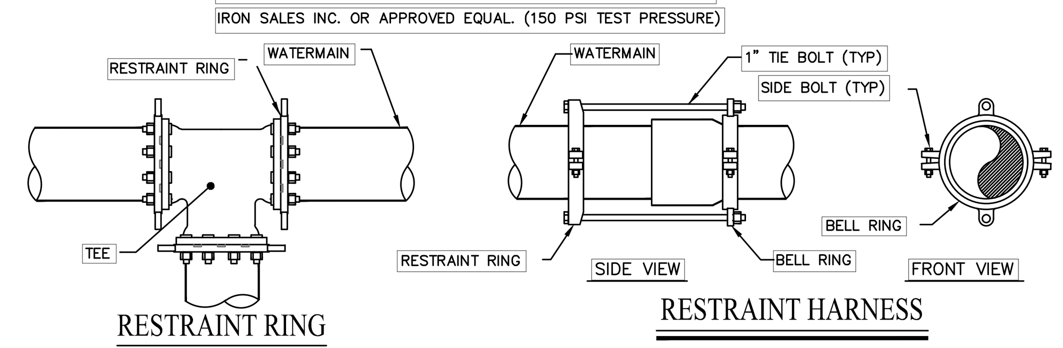
TABLE 4

NOMINAL PIPE SIZE (DIA) IN	HORIZONTAL BENDS 90° EL	HORIZONTAL BENDS 45° EL	HORIZONTAL BENDS 22.5° EL	HORIZONTAL BENDS 11.25° EL	VERTICAL OFFSETS 45° EL UPPER BEND	VERTICAL OFFSETS 45° EL LOWER BEND	VERTICAL OFFSETS 22.5° EL UPPER BEND	VERTICAL OFFSETS 22.5° EL LOWER BEND	VERTICAL OFFSETS 11.25° EL UPPER BEND	VERTICAL OFFSETS 11.25° EL LOWER BEND	DEAD END & LINE VALVE
6	10	4	2	1	14	5	7	2	3	1	24
8	13	5	3	1	19	6	9	3	4	1	32
10	15	6	3	2	23	7	11	3	5	2	39
12	18	8	4	2	27	9	13	4	6	2	46
16	24	10	5	3	35	11	17	5	8	3	60

TABLE 5

NOMINAL PIPE SIZE (IN)	TEE BRANCH LENGTH TO BE RESTRAINED (FT) BRANCH SIZE (IN) 6	8	10	12	16	REDUCER SMALL DIAMETER (IN) 6	8	10	12
6	13								
8	10	21				13			
10	7	18	28			24	13		
12	3	16	26	35		34	24	23	
16	1	10	21	31	49	51	44	43	26

TABLES 4 & 5 INDICATE MIN. LENGTH OF PIPE EACH SIDE OF VALVE, FITTING, ETC. THAT MUST HAVE JOINTS RESTRAINED WHEN UTILIZING MECHANICAL RESTRAINTS, AS MANUFACTURED BY EBAA IRON SALES INC. OR APPROVED EQUAL. (150 PSI TEST PRESSURE)



RESTRAINT RING

FITTINGS & VALVES
SERIES 2000PV–FOR MJ PVC CONNECTIONS
SERIES 2000SV–FOR REPAIR SITUATIONS

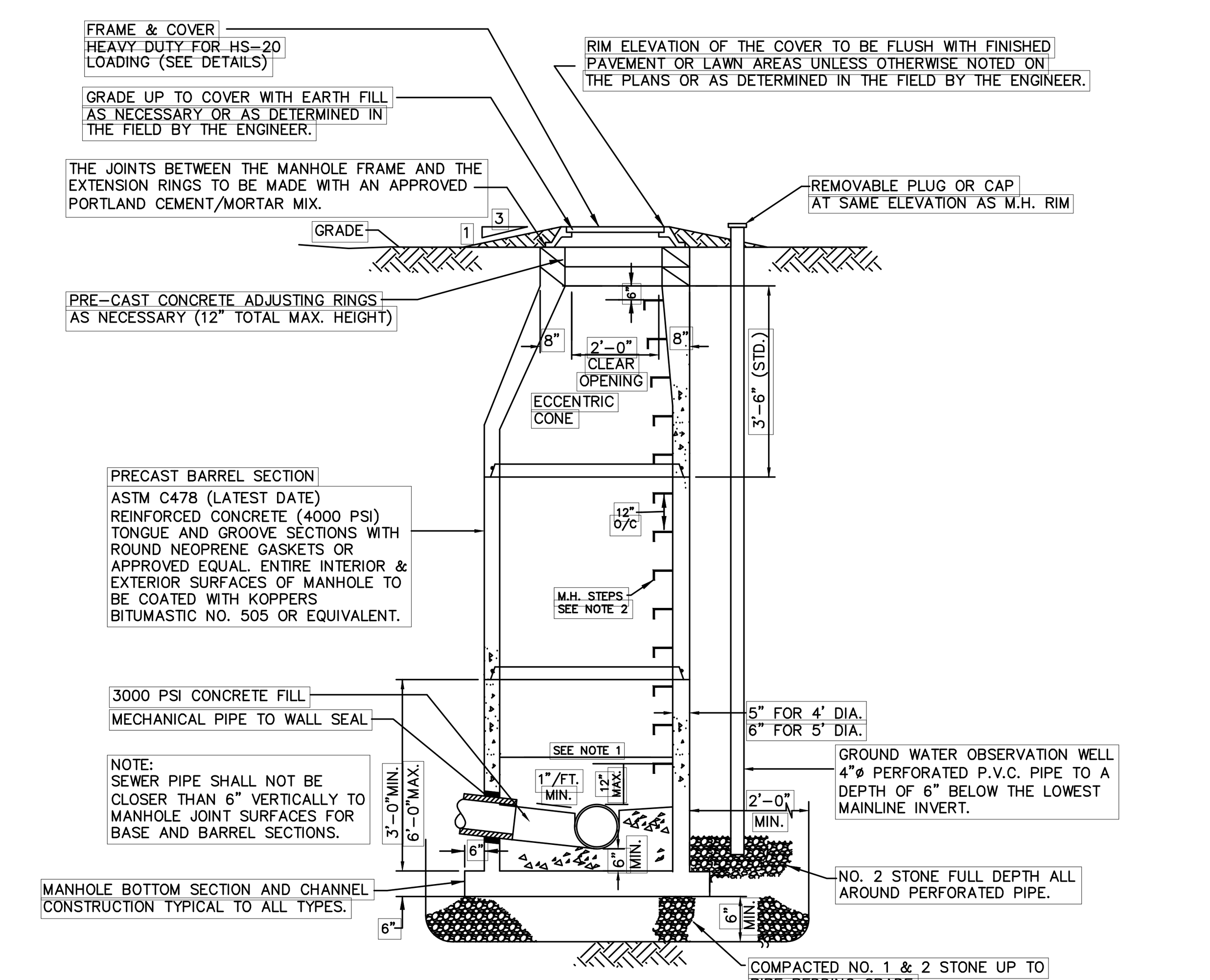
RESTRAINT HARNESS

FOR C–900 PIPE BELLS
SERIES 1600–3"–12" LINE SIZE CONNECTIONS
SERIES 2800–14"–36" LINE SIZE CONNECTIONS

NOTE: ALL BOLTS TO HAVE SACRIFICIAL ZINC ANODES BOTH THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE REQUIRED

PIPE & FITTING MECHANICAL RESTRAINTS

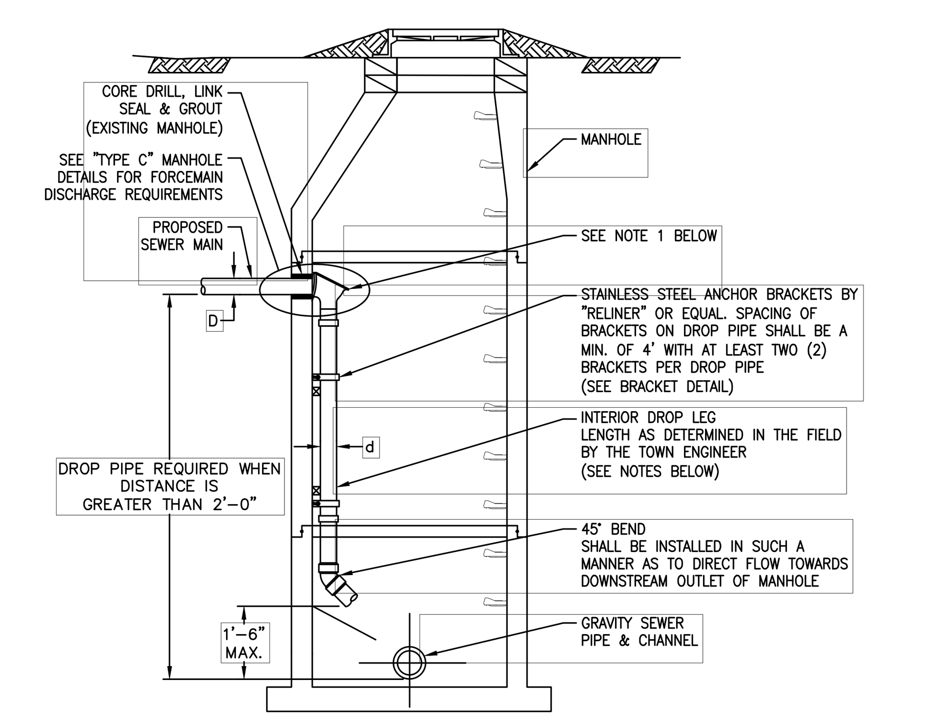
NTS



NOTES:
1. A. 4'–0" DIA. BOTTOM SECTION TYPICAL FOR ALL PIPE SIZES UNDER 18" DIA. UNLESS OTHERWISE NOTED.
B. 5'–0" DIA. BOTTOM SECTION TYPICAL FOR PIPE SIZES 18" DIA. AND OVER UNLESS OTHERWISE NOTED.
2. FIRST MANHOLE STEP SHALL BE 6" FROM THE TOP OF CONE. M.H. STEPS TO BE ON STRAIGHT WALL. NO PIPE ON STRAIGHT WALL IF POSSIBLE. STRAIGHT WALL TO BE AWAY FROM ROAD.
3. AFTER THE BARREL SECTIONS ARE ASSEMBLED, ANY EXCESS JOINT COMPOUND SHALL BE TROWELED OFF THE OUTSIDE AND INSIDE FACE. THE INSIDE FACE OF THE JOINT SHALL THEN BE TROWELED WITH APPROVED PATCHING MATERIAL.
4. UPON COMPLETION OF REQUIRED TESTING AND ACCEPTANCE BY THE ENGINEER, FILL AND CAP GROUND WATER OBSERVATION WELL BELOW GRADE.
5. ANY WATER REMOVED FROM THE EXCAVATION OR OBSERVATION WELL MUST BE PROPERLY MANAGED.

STANDARD PRECAST BASE MANHOLE - TYPE "A"

NTS



NOTES:
1. INSIDE DROP SYSTEM BY "RELINER" OR EQUAL TO BE USED FOR GRAVITY SEWER DROP UNLESS OTHERWISE NOTED ON THE PLANS OR AS DETERMINED IN THE FIELD BY THE TOWN ENGINEER.
2. IF CONNECTING TO MANHOLE INTERFERES WITH THE MANHOLE STEPS, THE DROP CONNECTION WILL BE REQUIRED TO BE OUTSIDE, RATHER THAN INSIDE.

(a.) FOR GRAVITY SEWER, DROP LEG DIA. "d" SHOULD BE AT LEAST 1/2 OF THE SEWER MAIN DIA. "D" (EXCEPT "d"=8" MIN.)

(b.) FOR FORCEMAIN/PRESSURE SEWER, DROP LEG DIA. "d" SHALL BE EQUAL TO THE MAINLINE DIA. "D" LAND CEMENT/MORTAR MIX.

3. ALL JOINTS IN PVC DROP PIPE SHALL BE SOLVENT WELDED.
4. CONTRACTOR SHALL USE CAUTION WHEN CORE DRILLING HOLE IN SIDE OF EXISTING MANHOLE. HOLE SIZE SHALL BE APPROX. 2" IN DIA. LARGER THAN DISCHARGE PIPE.
5. DISTURBED AREA UNDER PIPE TO BE FILLED WITH SELECTED MATERIAL THOROUGHLY COMPACTED.
6. EXCESS EXCAVATION BELOW REQUIRED LEVEL SHALL BE BACKFILLED WITH SELECTED MATERIAL THOROUGHLY COMPACTED.
7. IF NEW PIPE INVERT IS IN CONFLICT WITH EXISTING MANHOLE BENCH, THE EXISTING BENCH SHALL BE REMOVED AS NECESSARY AND A NEW BENCH FORMED.

SEWER LINE CONNECTION TO MANHOLE AND INSIDE DROP MANHOLE

NTS

NO.	DATE	REVISIONS
8		
7		
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0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · 0014078

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Prepared by:

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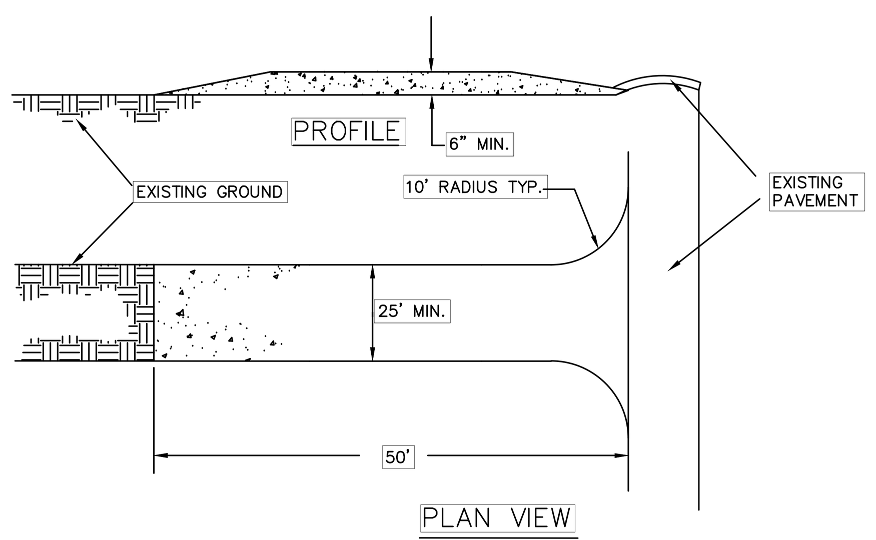
DETAILS - WATER AND SANITARY SEWER

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
333 Ganson Street
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale: AS NOTED | date: 11-6-19 | project no.: 18-4805 | sheet: 7 of 11

EROSION CONTROL NOTES

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE EROSION CONTROL DETAILS. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE BE MAINTAIN UNTIL CONTRIBUTING DRAINAGE AREAS AREA STABILIZED.
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

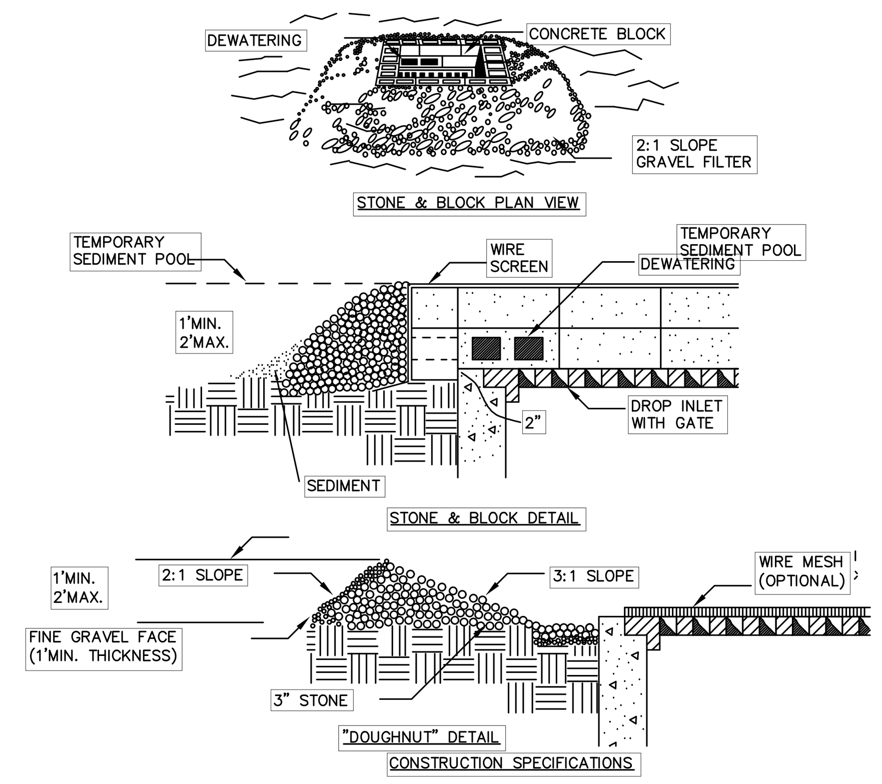


1. STONE SIZE – USE 2"STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50'.
3. THICKNESS – NOT LESS THAN 6".
4. WIDTH – 10' MINIMUM, BUT NO LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROOPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
NTS

MIXTURE	RATE PER 1,000 SQ.FT. (LBS.)
KENTUCKY BLUEGRASS	0.60
CREEPING RED FESCUE	0.50
PERENNIAL RYEGRASS	0.20

SEED MIXTURE FOR PERMANENT VEGETATION

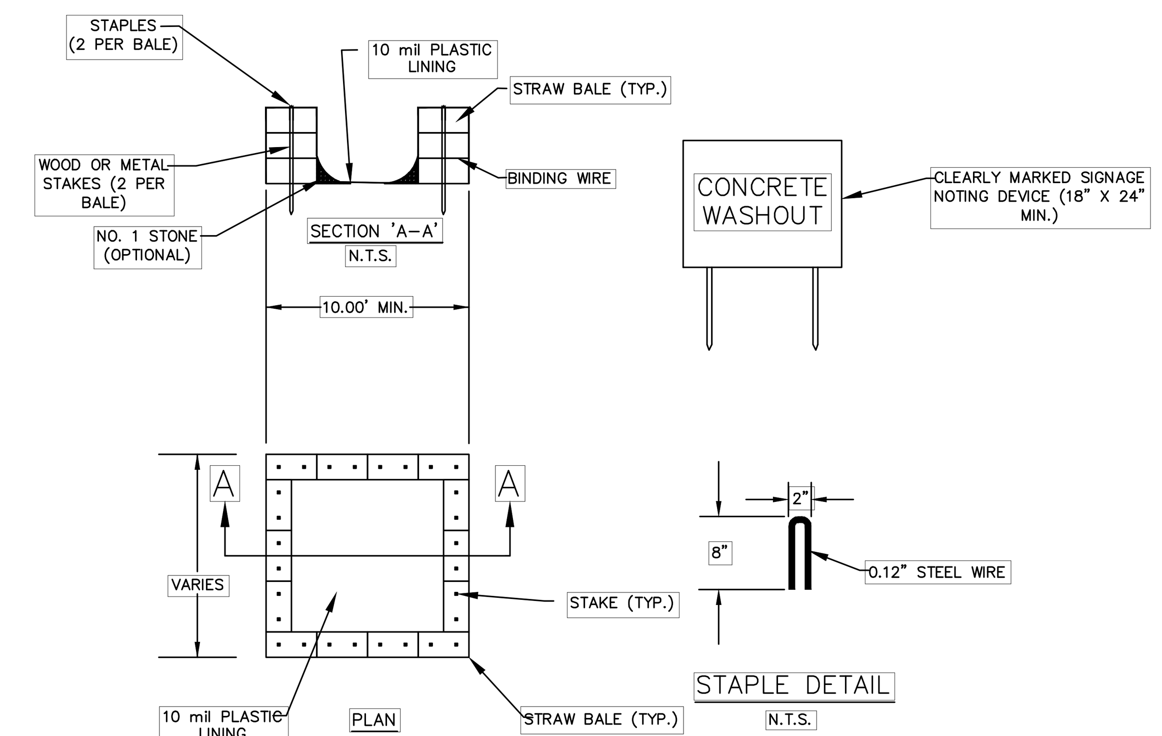


CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2–3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

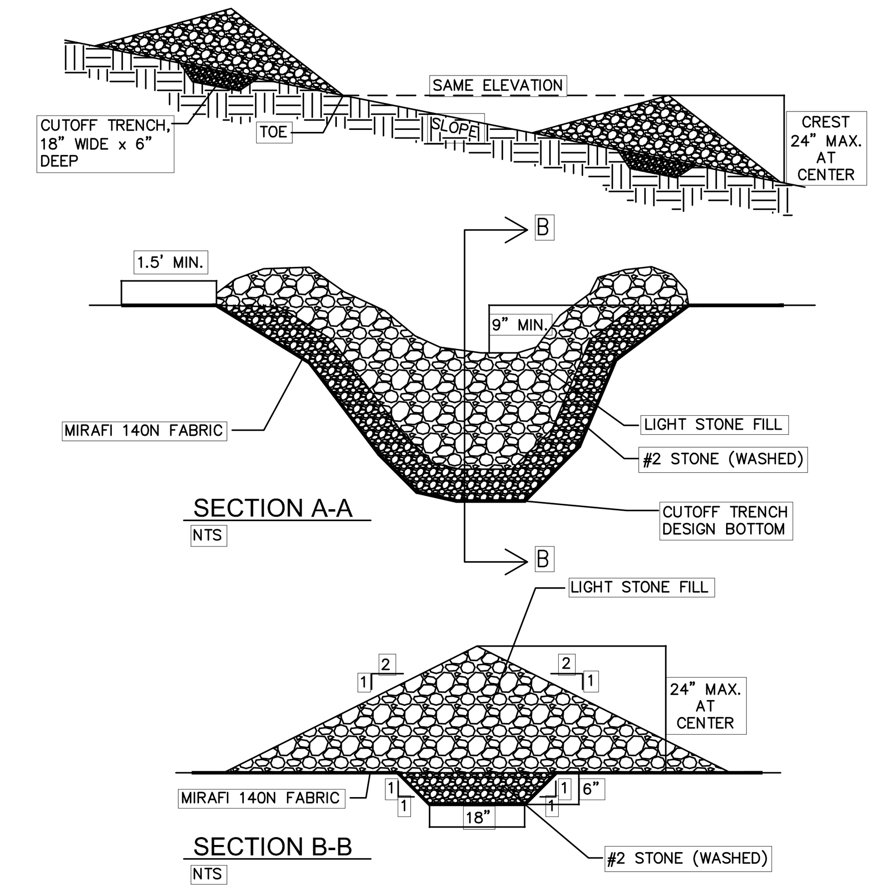
STONE AND BLOCK INLET PROTECTION DETAIL
NTS



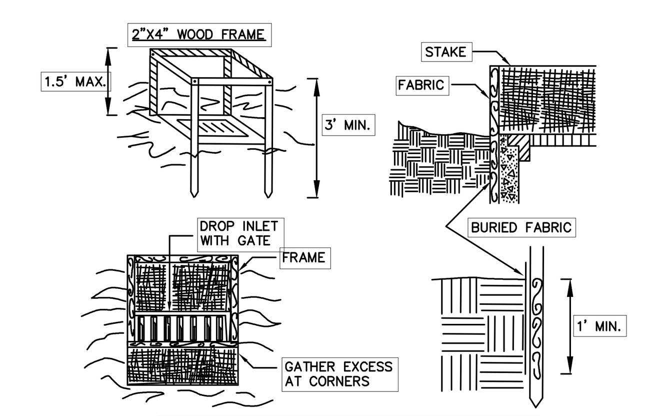
NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY WASHOUT FACILITY.
3. THE CONCRETE WASHOUT STRUCTURE SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURE'S CAPACITY.
4. THE PLASTIC LINING SHALL BE FREE OF TEARS OR HOLES THAT WOULD ALLOW WASHWATER TO ESCAPE.

TYPICAL ABOVE GRADE CONCRETE WASHOUT INSTALLATION DETAIL
NTS



CHECK DAM DETAIL
NTS

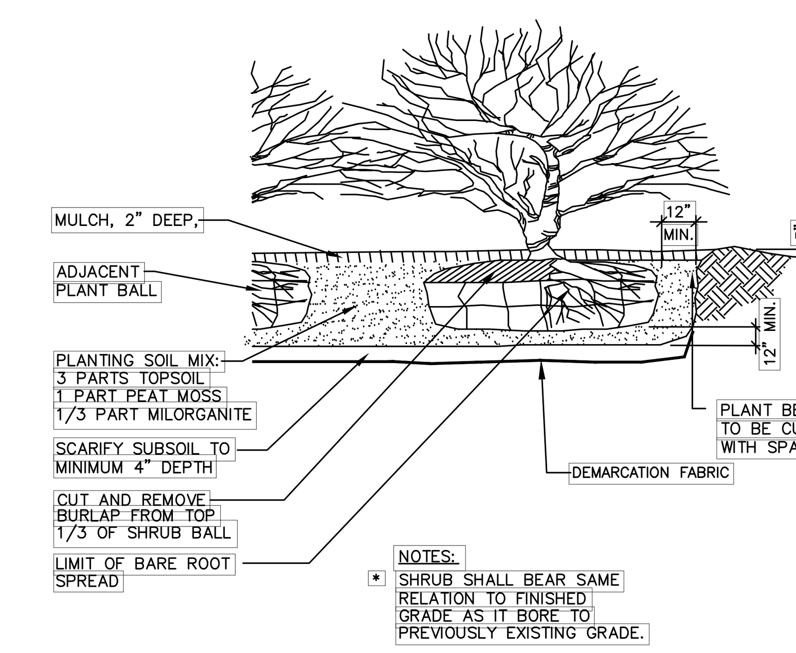


CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40–85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

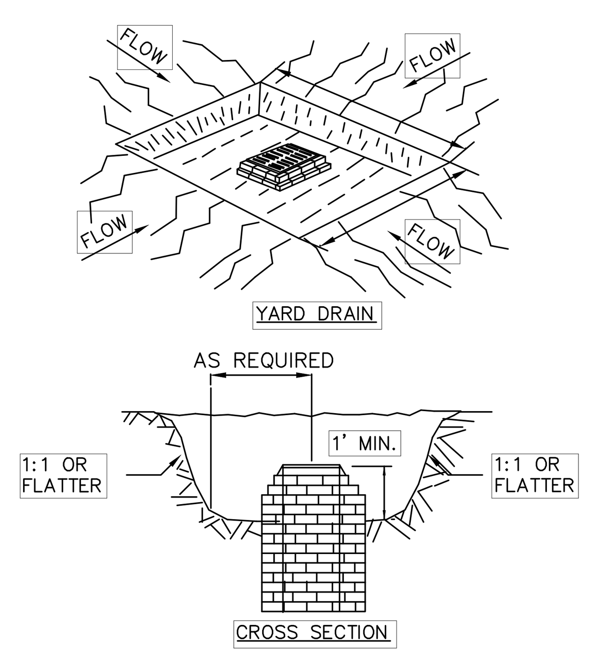
MAXIMUM DRAINAGE AREA 1 ACRE

FILTER FABRIC DROP INLET PROTECTION DETAIL
NTS



NOTES:
* SHRUB SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUSLY EXISTING GRADE.

SHRUB PLANTING DETAIL
NTS

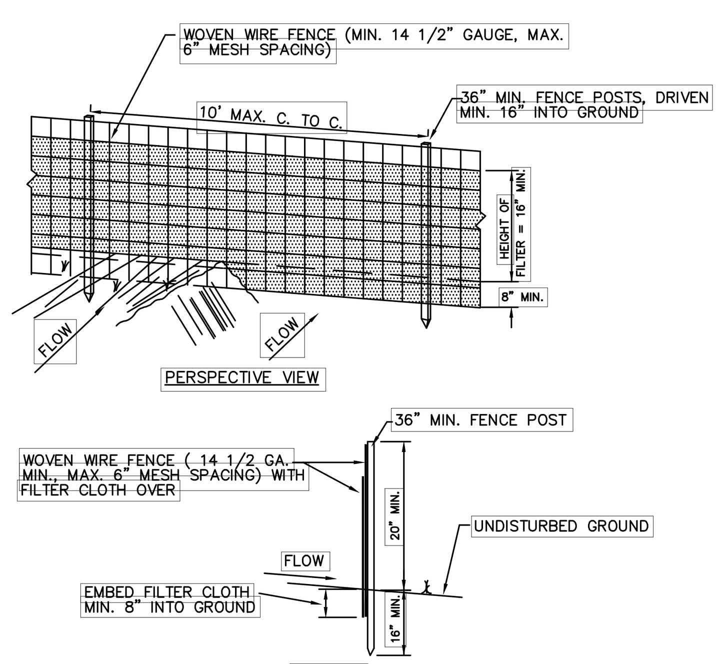


CONSTRUCTION SPECIFICATIONS

1. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 1800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
6. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.

MAXIMUM DRAINAGE AREA: 3 ACRES

EXCAVATED INLET PROTECTION DETAIL
NTS



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

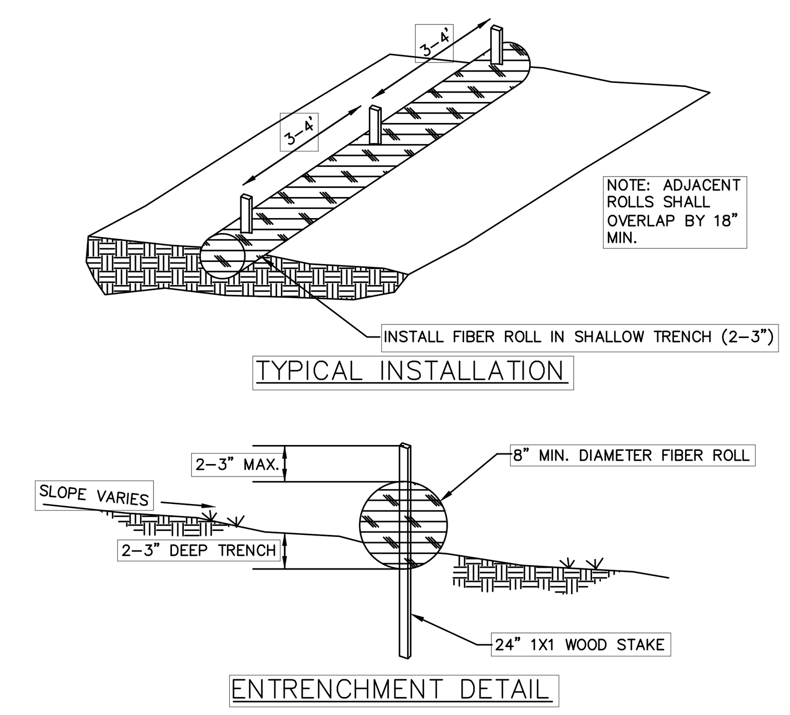
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABI–LINKA T140N OR APPROVED EQUAL

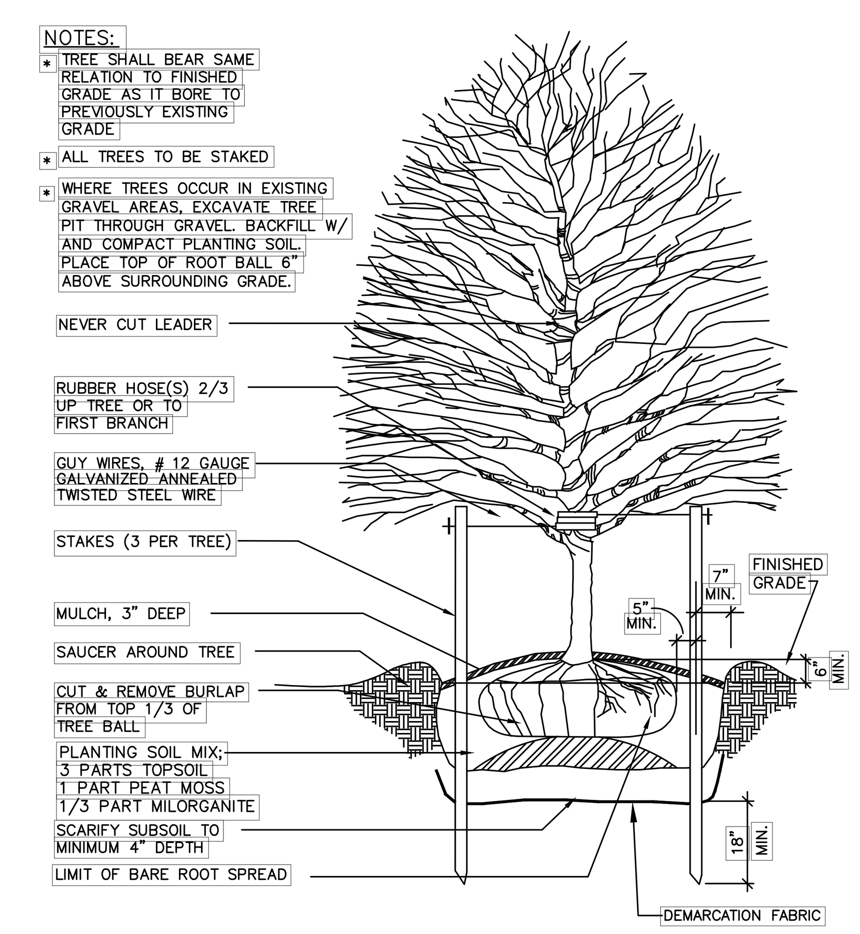
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE DETAIL
NTS



TYPICAL FIBER ROLL INSTALLATION DETAIL
NTS

NOTES:
* TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUSLY EXISTING GRADE.
* ALL TREES TO BE STAKED
* WHERE TREES OCCUR IN EXISTING GRAVEL AREAS, EXCAVATE TREE PIT THROUGH GRAVEL. BACKFILL W/ AND COMPACT PLANTING SOIL. PLACE TOP OF ROOT BALL 6" ABOVE SURROUNDING GRADE.



DECIDUOUS TREE PLANTING DETAIL
NTS

NO.	DATE	REVISIONS
8		
7		
6		
5		
4		
3		
2		
1		
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

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STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · 0014078 · ADVANCED DESIGN GROUP PROFESSIONAL ENGINEERING & LAND SURVEYING, PC

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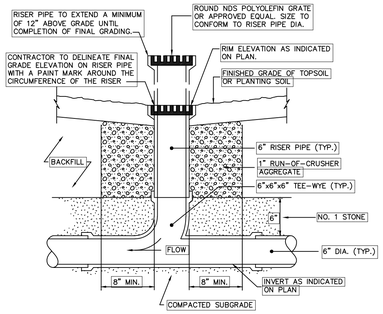
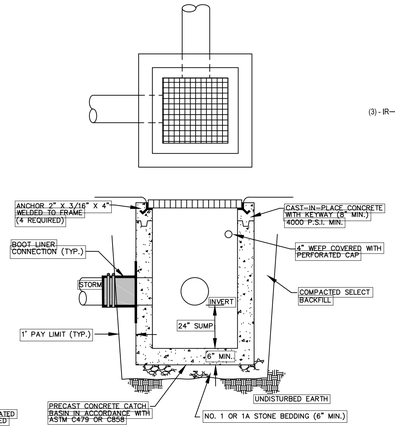
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale:	date:	project no.:	sheet:
AS NOTED	11-6-19	18-4805	8 of 11



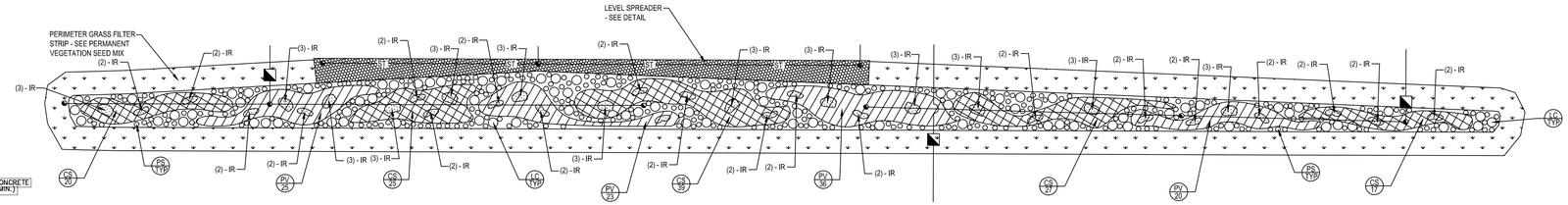
TYPICAL YARD DRAIN RECEIVER DETAIL

NTS



CATCH BASIN DETAIL

NTS

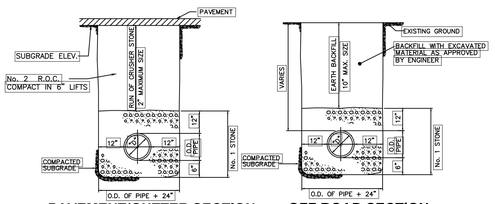


BIO-RETENTION AREA SAMPLE PLANTING PLAN

NTS

SCHEDULE: BIO-RETENTION AREA

NO.	ID	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
104	PV	PANICUM VIRGATUM	SWITCHGRASS	2" PLUG	2 FT. O.C.
128	CS	CAREX SPP.	SEDGES	2" PLUG	2 FT. O.C.
321	PS	POLYGONUM SPP.	SMARTWEED	2" PLUG	2 FT. O.C.
85	LC	LOBELIA CARDINALIS	CARDINAL FLOWER	2" PLUG	2 FT. O.C.
79	IR	IRIS VERSICOLOR	NORTHERN BLUE FLAG IRIS	2" PLUG	2 FT. O.C.

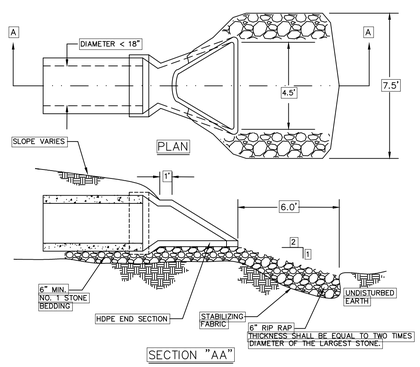


PAVEMENT/GUTTER SECTION **OFF ROAD SECTION**

NOTES:
1. SAW CUT ALL EDGES OF EXISTING PAVEMENT AND BASE TO FULL DEPTH IN ONE PASS.
2. GENERAL EXCAVATION, ALL SPOIL MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
3. PLACE A MIN. OF 6" OF #1 STONE SCOOPED TO RECEIVE PIPE WITH "NO BEARING ON BELL".

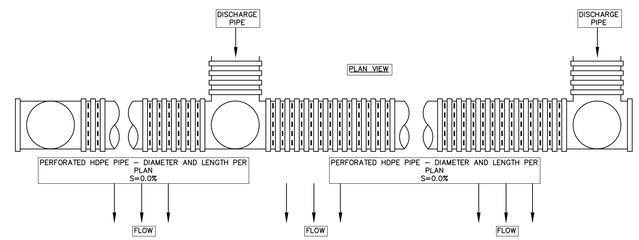
STORM SEWER TRENCH DETAILS

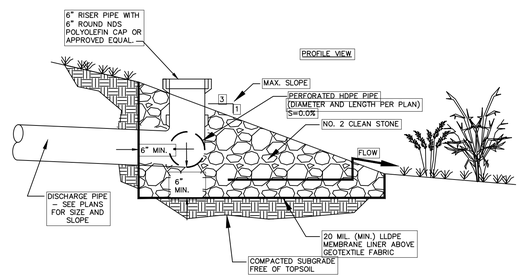
NTS



TYPICAL END SECTION DETAIL

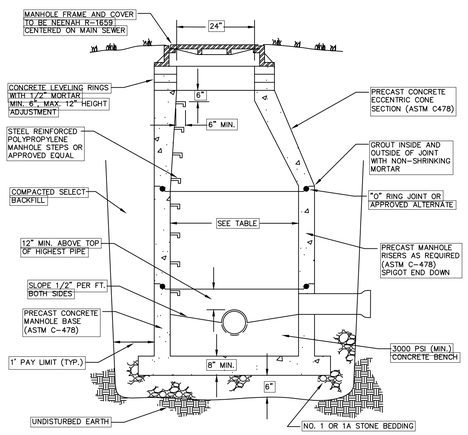
NTS





LEVEL SPREADER DETAIL

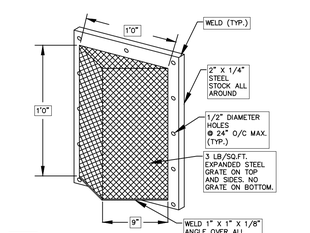
NTS



MINIMUM MANHOLE DIAMETERS										
NO. OF INFLOW CONNECTORS	PIPE DIAMETERS									
	8"	10"	12"	15"	16"	18"	21"	24"	30"	36"
DEAD END	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'
1	4'	4'	4'	4'	4'	4'	4'	4'	5'	5'
2	4'	4'	4'	4'	4'	4'	5'	5'	5'	5'
3	4'	4'	4'	5'	5'	5'	5'	5'	5'	5'

STORM SEWER MANHOLE

NTS

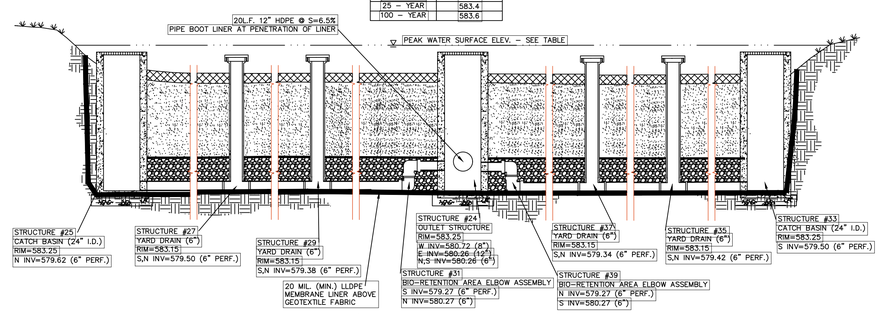


NOTES:
1. TRASH RACK TO BE CENTERED OVER 6" OPENING.
2. STEEL TO CONFORM TO ASTM A-36.
3. ALL SURFACES TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND AFTER WELDING.

TRASH RACK TYPICAL DETAIL

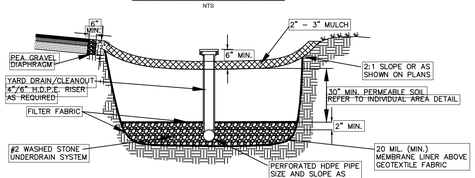
NTS

DESIGN STORM	PEAK WATER SURFACE ELEVATION
1 – YEAR	583.3
10 – YEAR	583.3
25 – YEAR	583.4
100 – YEAR	583.6



CROSS SECTION "A-A" - BIO-RETENTION AREA

NTS

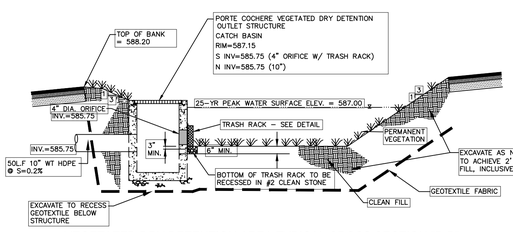


NOTES
1. THE "PERMEABLE SOIL" SHALL BE CONSISTENT WITH THE NYSDOT STANDARD SPECIFICATIONS ITEM 208.0103 22. THE "PERMEABLE SOIL" SHALL BE A WELL BLENDED MIXTURE OF THREE (3) PARTS SAND AND ONE (1) PART TOPSOIL, BY VOLUME. SAND SHALL MEET THE REQUIREMENTS OF SECTION 703-07 "CONCRETE SAND" OF THE NYSDOT STANDARD SPECIFICATIONS. TOPSOIL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 713-01 "TOPSOIL". THE "PERMEABLE SOIL" SHALL HAVE A pH RANGE OF 5.2 TO 7.6 AND AN ORGANIC CONTENT OF 3-7%. SOIL AMENDMENTS TO INCREASE ORGANIC CONTENT SHALL BE PEAT MOSS IN ACCORDANCE WITH SECTION 713-15 "ORGANIC MATERIAL" OF THE NYSDOT STANDARD SPECIFICATIONS. A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5"/HR.) IS REQUIRED. THE SOIL SHALL BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER AND VISIBLY FREE OF NOXIOUS WEEDS. THE SOIL SHOULD BE PLACED IN 12" LIFTS AND LOOSELY COMPACTED (TAMPED LIGHTLY WITH A DOZER OR BACKHOE BUCKET).

2. THE MULCH LAYER SHOULD BE STANDARD LANDSCAPE STYLE, SINGLE OR DOUBLE SHREDDED HARDWOOD MULCH OR CHIPS. THE MULCH LAYER SHOULD BE WELL AGED (STOCKPILED OR STORED FOR AT LEAST 12 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. THE MULCH SHOULD BE APPPLIED TO A MAXIMUM DEPTH OF THREE INCHES. GRASS CLIPPINGS SHOULD NOT BE USED AS A MULCH MATERIAL.

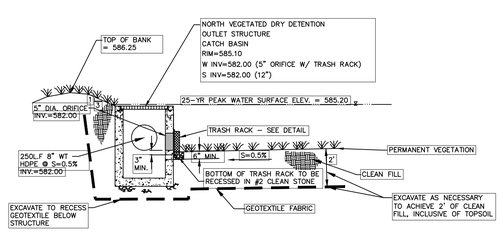
BIO-RETENTION AREA - TYPICAL SECTION

NTS



VEGETATED DRY DETENTION AREA TYPICAL CROSS SECTION "B-B"

NTS



VEGETATED DRY DETENTION AREA TYPICAL CROSS SECTION "C-C"

NTS

NO.	DATE	REVISIONS
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION
1		
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STATE OF NEW YORK ★ LICENSED PROFESSIONAL ENGINEER ★ 081478

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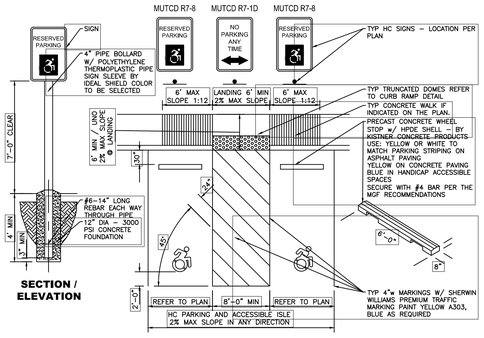
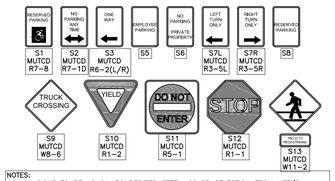
scale: AS NOTED	date: 11-6-19	project no.: 18-4805	sheet: 9 of 11



TYPICAL HC PARKING STALL AND SIGNAGE

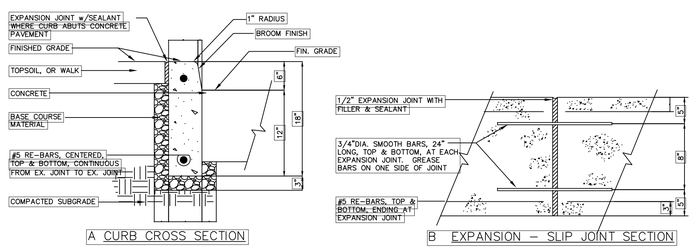
NTS



NOTES:
1. ALL SIGNS TO BE 18 GA. BONDERIZED STEEL. COLOR SELECTION FROM MFR.'S STANDARDS.
2. TOP OF ALL SIGNS TO BE 6'–0" ABOVE GRADE EXCEPT S1 & S2.
3. ALL SIGN POST TO BE MFR.'S STANDARD GALV. STEEL U–CHANNEL POST. EMBEDDED MIN. 2'–0" BELOW GRADE EXCEPT S1 & S2.
4. AVAILABLE MANUFACTURERS – SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MFR.'S OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: BEST MANUFACTURING SYSTEMS, & SETON IDENTIFICATION PRODUCTS
5. ALL TRAFFIC CONTROL DEVICES WILL BE INSTALL IN COMPLIANCE WITH MANUAL ON UNIFORM CONTROL DEVICE (MUTCD).

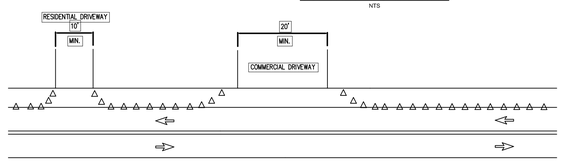
TRAFFIC AND PARKING CONTROL SIGNAGE

NTS



CONCRETE CURB DETAIL

NTS



TYPICAL DELINEATION FOR DRIVEWAY ENTRANCES

THE CONTRACTOR MUST MAINTAIN AT LEAST ONE DRIVEWAY ENTRANCE TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES.

WHEN IT IS NECESSARY TO CLOSE A COMMERCIAL DRIVEWAY DUE TO CONSTRUCTION OPERATIONS THE CONTRACTOR MUST PROVIDE A TEMPORARY DRIVEWAY TO THE PROPERTY UNLESS THE WORK IS COMPLETED DURING THE ESTABLISHMENTS NON–WORKING HOURS.

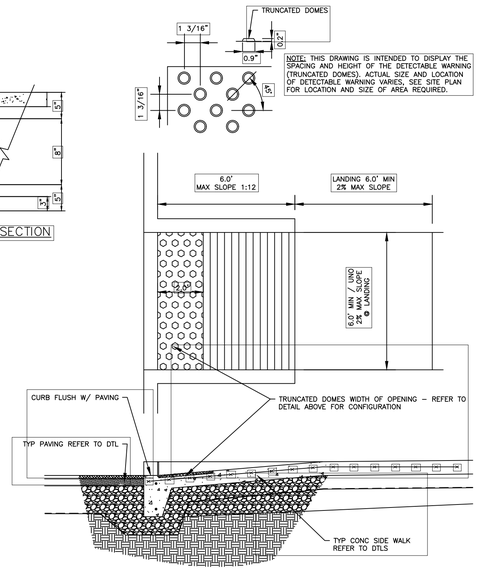
THE CONTRACTOR MUST NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CLOSING THE DRIVEWAY.

ALL RESIDENTIAL DRIVEWAYS MUST BE REOPENED WITHIN 24 HOURS OF BEING CLOSED OR ASBE.

ALL WORK ZONE TRAFFIC CONTROLS SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT NEW YORK STATE SUPPLEMENT, NYSDOT STANDARD SPECIFICATIONS, NYSDOT STANDARD SHEETS AND NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL DATED JANUARY 2012

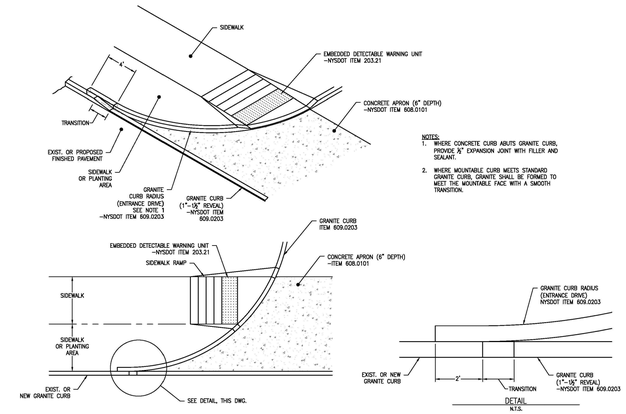
WORK ZONE TRAFFICE CONTROL PLAN - TYPICAL DRIVEWAY DELINEATION

NTS



INLINE CURB RAMP DETAIL

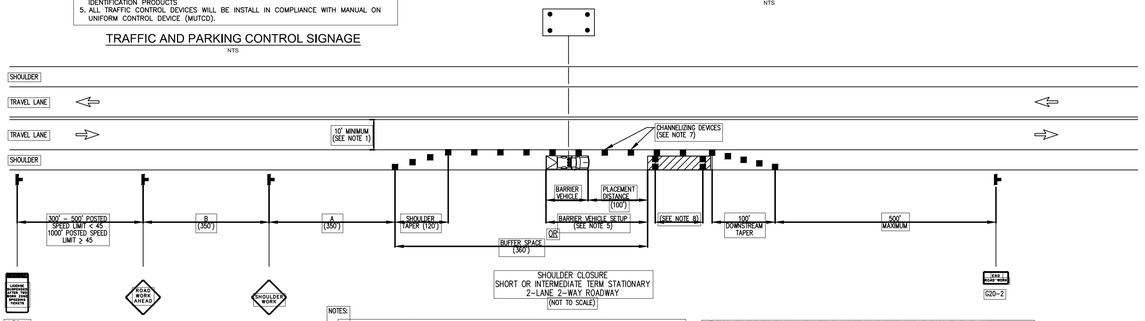
NTS



NOTES:
1. WHERE CONCRETE CURB ABUTS GRANITE CURB, PROVIDE 1/2" EXPANSION JOINT WITH FILLER AND SEALANT.
2. WHERE MOUNTABLE CURB MEETS STANDARD GRANITE CURB, GRANITE SHALL BE FORMED TO MEET THE MOUNTABLE FACE WITH A SMOOTH TRANSITION.

MAJOR DRIVEWAY GRANITE CURB RETURN DETAIL

NTS

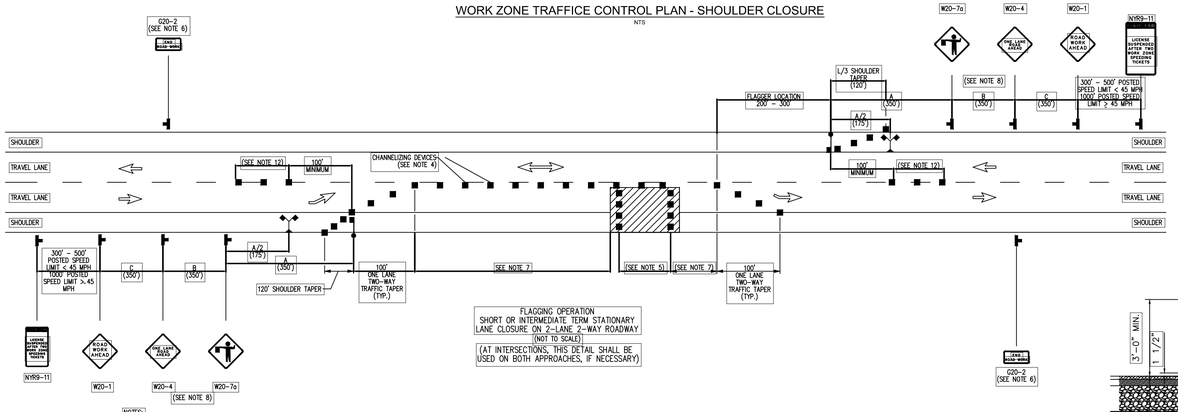


SHOULDER CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
2–LANE, 2–WAY ROADWAY
(NOT TO SCALE)

NOTES:
1. WHEN THE MINIMUM LANE WIDTH OF 10' CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7–3a) SHOULD BE USED WITH THE SHOULDER WORK SIGN (W21–5).
4. ALL WORK ZONE TRAFFIC CONTROLS SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT NEW YORK STATE SUPPLEMENT, NYSDOT STANDARD SPECIFICATIONS, NYSDOT STANDARD SHEETS AND NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL DATED JANUARY 2012
5. BARRIER VEHICLE USE REQUIRED FOR WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC.
6. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.
7. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

WORK ZONE TRAFFICE CONTROL PLAN - SHOULDER CLOSURE

NTS



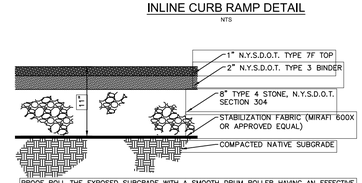
FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE ON 2–LANE, 2–WAY ROADWAY
(NOT TO SCALE)

(AT INTERSECTIONS, THIS DETAIL SHALL BE USED ON BOTH APPROACHES, IF NECESSARY)

NOTES:
1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
4. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
5. THE END ROAD WORK SIGN (G20–2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
6. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE–LANE, TWO–WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
7. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY THE DISTANCE BETWEEN THE FLAGGER SIGN (W20–7a) AND THE FLAGGER.
8. FLAGGER SIGN (W20–7a) AND ONE LANE ROAD AHEAD SIGN (W20–4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
9. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
10. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.
11. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.
12. ALL WORK ZONE TRAFFIC CONTROLS SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT NEW YORK STATE SUPPLEMENT, NYSDOT STANDARD SPECIFICATIONS, NYSDOT STANDARD SHEETS AND NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL DATED JANUARY 2012

WORK ZONE TRAFFICE CONTROL PLAN - LANE CLOSURE

NTS



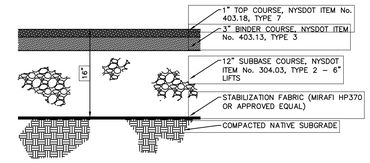
PROOF ROLL THE EXPOSED SUBGRADE WITH A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT FOR OF AT LEAST 60OLBS/LI. ANY AREAS EXHIBITING WEAVING, YIELDING, RUTTING, OR BOILING SHOULD BE REWORKED BY OVER EXCAVATED AND REPLACEMENT WITH STRUCTURAL FILL COMPACTED TO 95% MP

COMPACT FOUNDATION COURSE WITH A MINIMUM OF 5 PASSES OF A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT OF AT LEAST 60OLBS/LI. THE FINISHED SURFACE SHOULD BE UNIFORM AND DENSE AND COMPACTED TO 95% MP, WITHIN A MOISTURE RANGE OF 2% OF OPTIMUM CONTENT

* OWNER/CONTRACTOR RESPONSIBLE FOR REVIEW OF GEOTECHNICAL REPORT AND ANY DEVIATION FROM RECOMMENDED PAVEMENT SECTION.

STANDARD DUTY PAVEMENT*

NTS



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* OWNER/CONTRACTOR RESPONSIBLE FOR REVIEW OF GEOTECHNICAL REPORT OR TEST PITS AND ANY DEVIATION FROM RECOMMENDED PAVEMENT SECTION.

HEAVY DUTY PAVEMENT*

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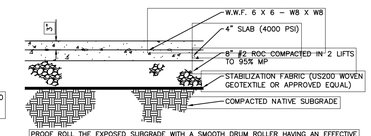

PROOF ROLL THE EXPOSED SUBGRADE WITH A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE FOR OF AT LEAST 60OLBS/LI. ANY AREAS EXHIBITING WEAVING, YIELDING, RUTTING, OR BOILING SHOULD BE REWORKED BY OVER EXCAVATED AND REPLACEMENT WITH STRUCTURAL FILL COMPACTED TO 95% MP

COMPACT FOUNDATION COURSE WITH A MINIMUM OF 5 PASSES OF A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT OF AT LEAST 60OLBS/LI. THE FINISHED SURFACE SHOULD BE UNIFORM AND DENSE AND COMPACTED TO 95% MP, WITHIN A MOISTURE RANGE OF 2% OF OPTIMUM CONTENT

STANDARD DUTY CONCRETE PAVEMENT

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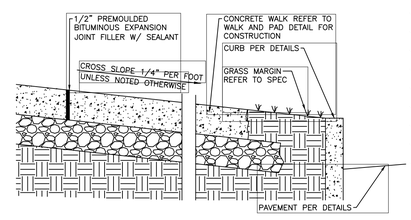
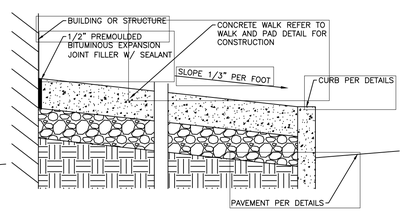


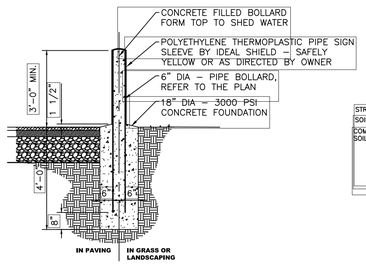
SIDEWALK W/ GRASS MARGIN

NTS



SIDEWALK UP TO CURB / BLDG. LINE

NTS



SEE PLANS FOR QUANTITIES AND LOCATIONS.

TYPICAL BOLLARD SECTION

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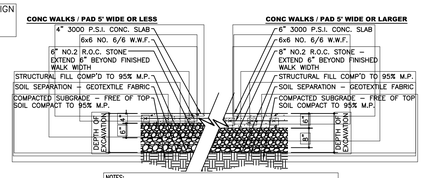
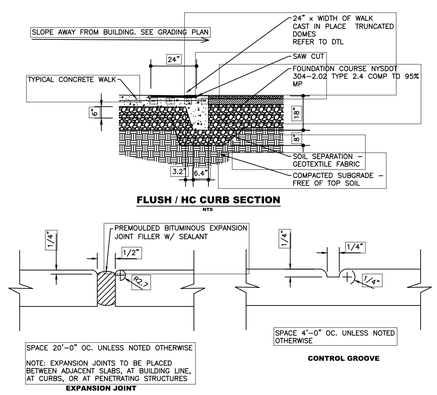


NOTES:
1.SAW CUT JOINT SPACING @ MAX 5' O.C.
2.WALK CROSS SLOPE IS NOT TO EXCEED 1.5% OR 1/8" / FT
3.WALK RUNNING SLOPE IS NOT TO EXCEED 4% (UNO) OR 1/2"/ FT
4.PAD SHALL BE PITCHED TO DRAIN 1/8" / FT
5.ALL EXTERIOR CONCRETE TO BE BROOM FINISHED PERPENDICULAR TO THE WALK
6.SIDEWALK THRU DRIVEWAY'S SHALL 6" MIN. THICK W/ W.W.F.6X6/10X10

NOTES:
1.CONCRETE SIDEWALKS WITHIN N.Y.S.D.O.T. R.O.W. SHALL CONFORM TO SPECIFICATION 608.01100015

CONCRETE WALKS & PADS TYP. SECTION

NTS



PAD / WALK - JOINT DETAILS

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NO.	DATE	REVISIONS
8		
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0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

UNAUTHORIZED ALTERATION OR ADDITION TO THESE PLANS IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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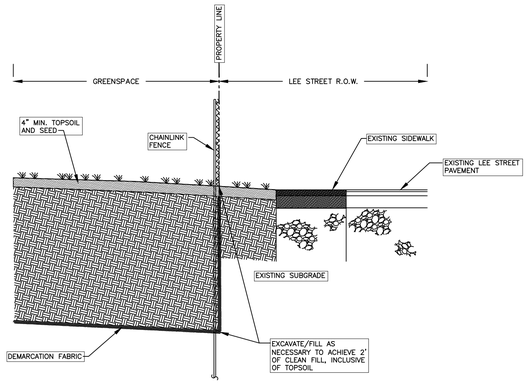
LEWISTON, NY 14092
PHONE (716) 754-2256
FAX (716)754-4252

DETAILS - PAVING AND WZTC

Powerhouse
229 Elk Street
City of Buffalo, Erie County, New York 14210
prepared for:
South Buffalo Development, LLC
333 Gates Circle
Buffalo, New York 14203
Project Contact: Advanced Design Group (716) 754-2256

scale: AS NOTED | date: 11-6-19 | project no.: 18-4805 | sheet: 10of 11



SECTION "A-A"
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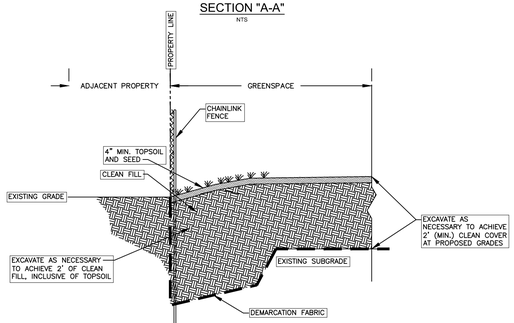

SECTION "B-B"
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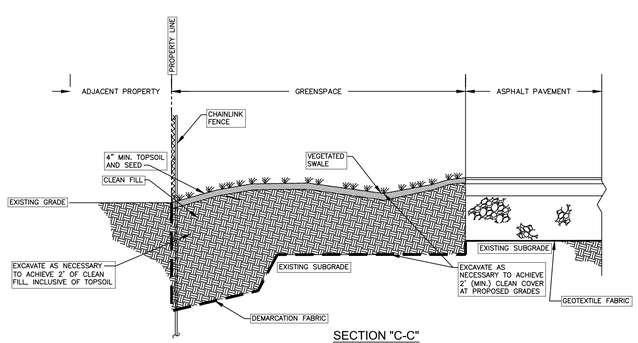

SECTION "C-C"
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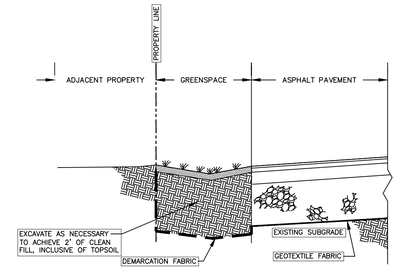

SECTION "D-D"
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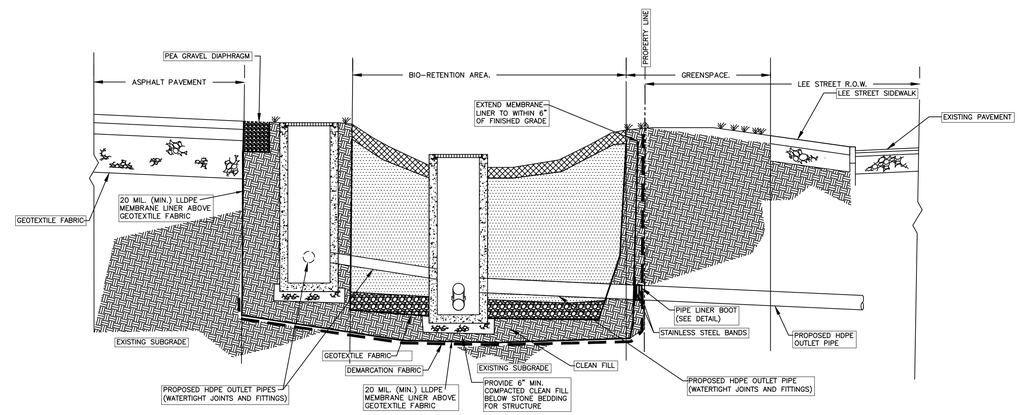

SECTION "E-E"
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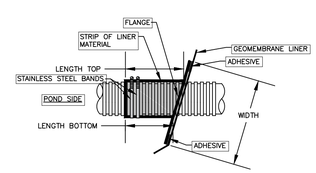

DIA. OF PIPE	LENGTH TOP	LENGTH BOTTOM	WIDTH
6"	27"	18"	24"SQ.
12"	54"	18"	50"SQ.

PIPE LINER BOOT DETAIL
NTS

NO.	DATE	REVISIONS
0	11/6/19	FOR AGENCY REVIEW - NOT FOR CONSTRUCTION
1		
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STATE OF NEW YORK ★ LICENSED PROFESSIONAL ENGINEER ★ 081407 ★ LICENSED PROFESSIONAL ENGINEER ★ STATE OF NEW YORK

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TYPICAL SECTIONS

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City of Buffalo, Erie County, New York 14210
prepared for:
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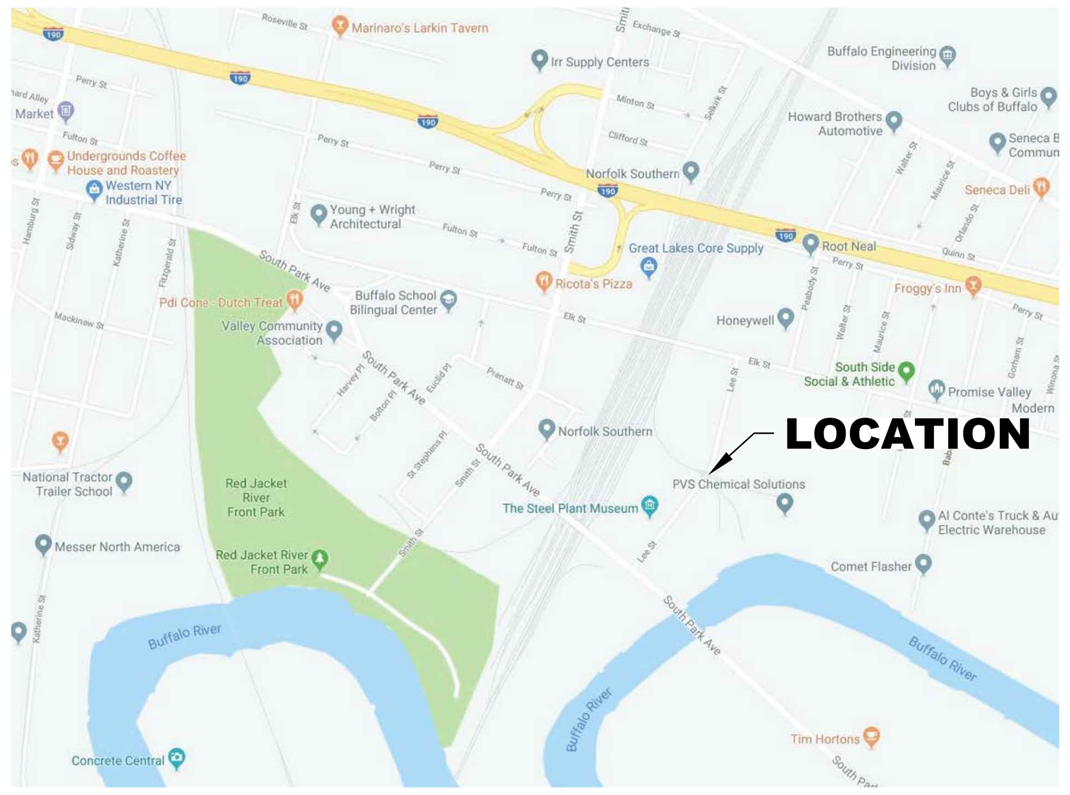
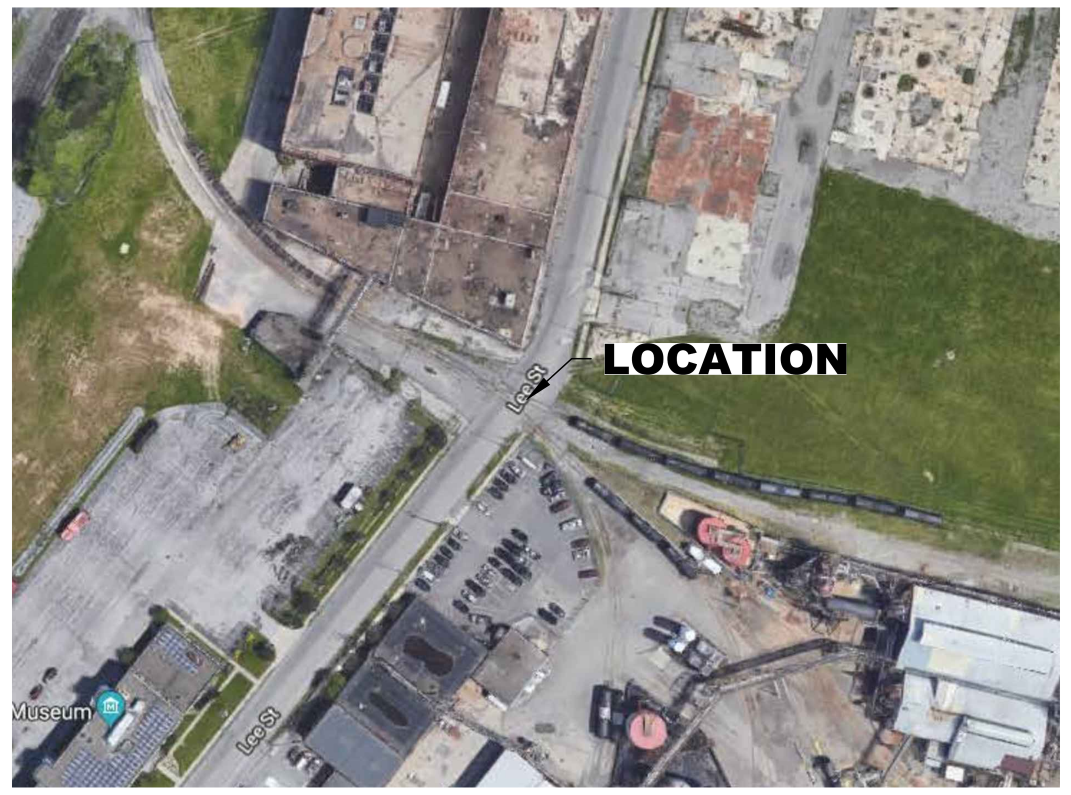
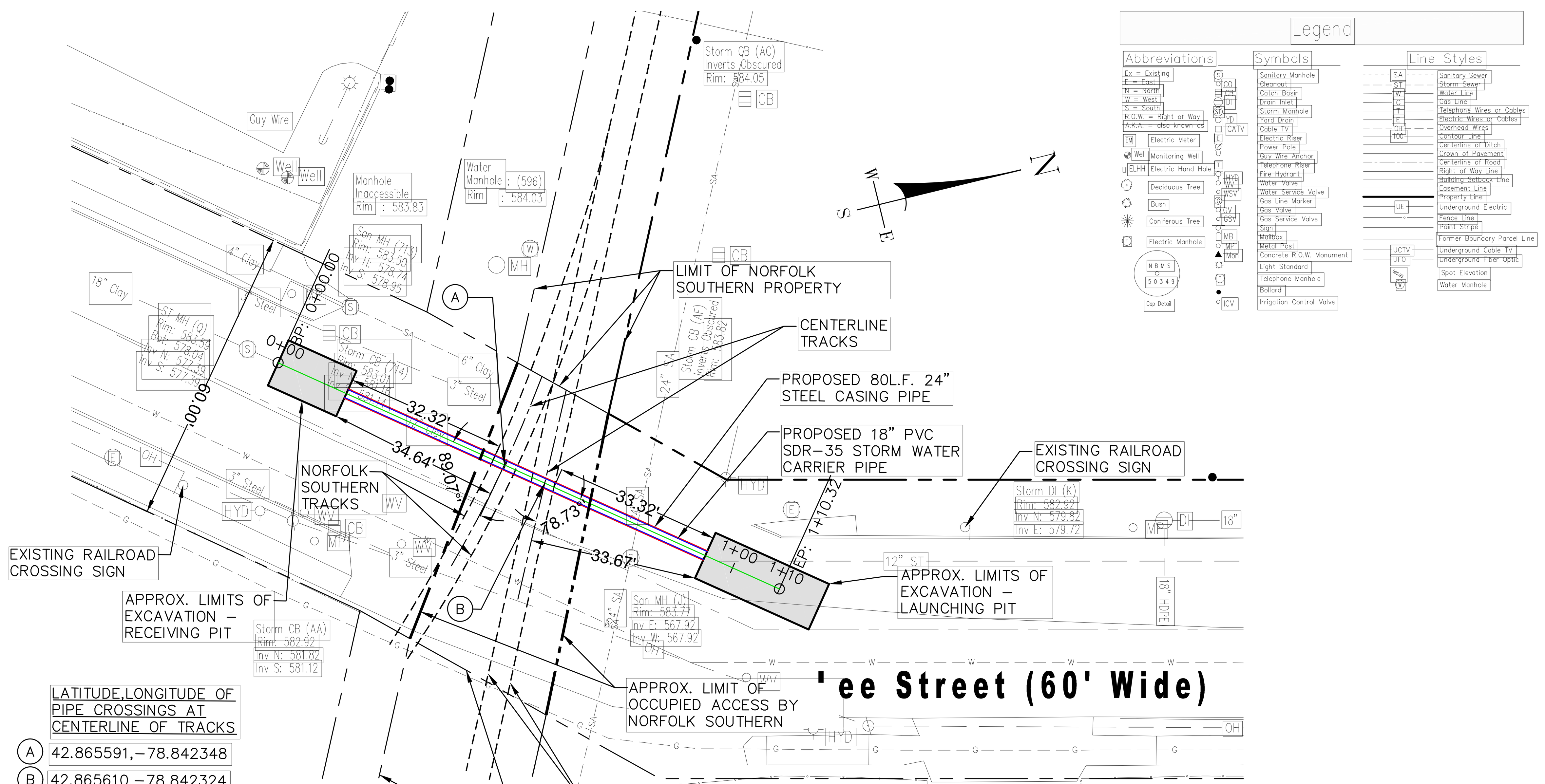


LOCATION MAP
NTS



AERIAL PHOTO
NTS

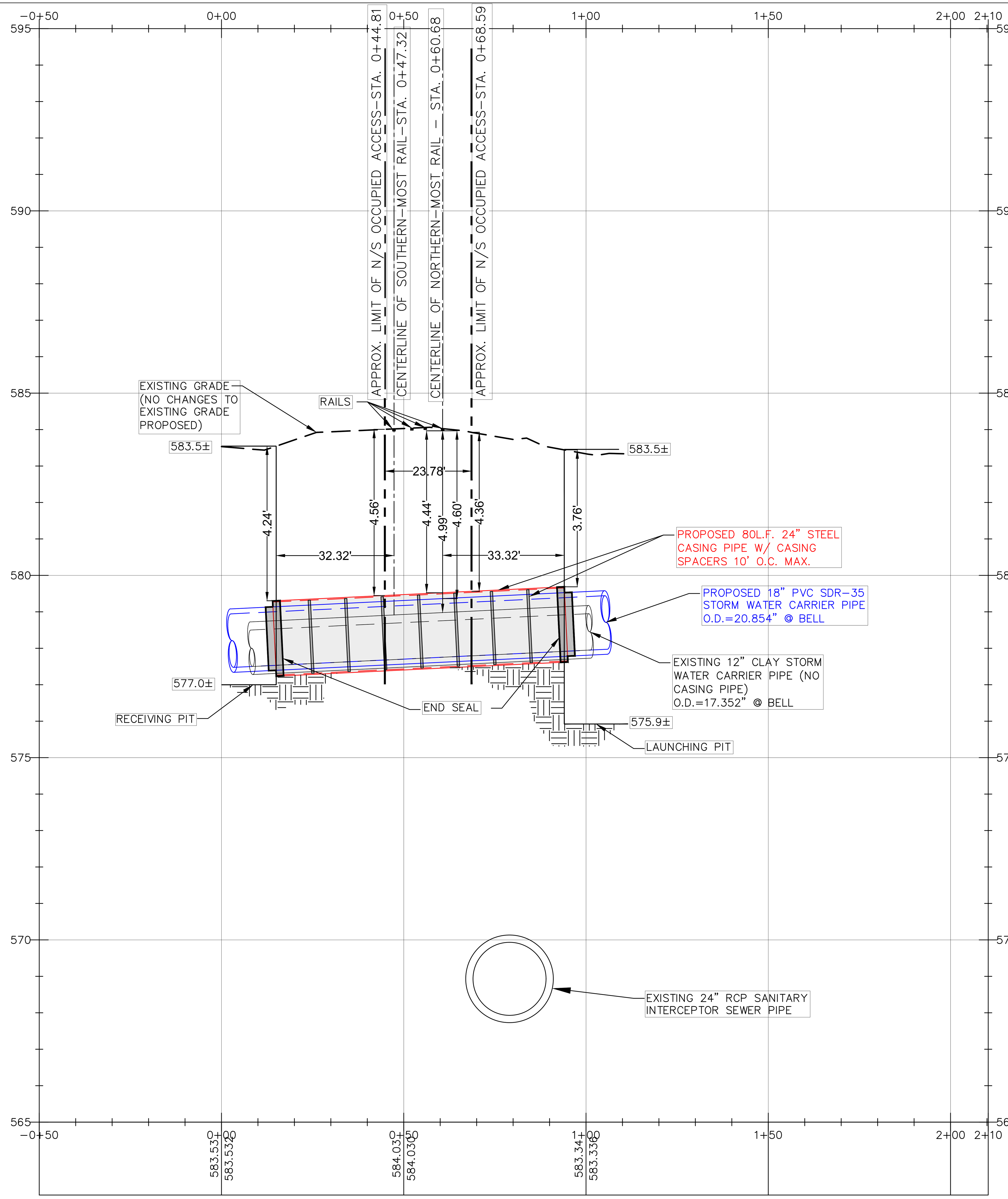


MAP REFERENCE

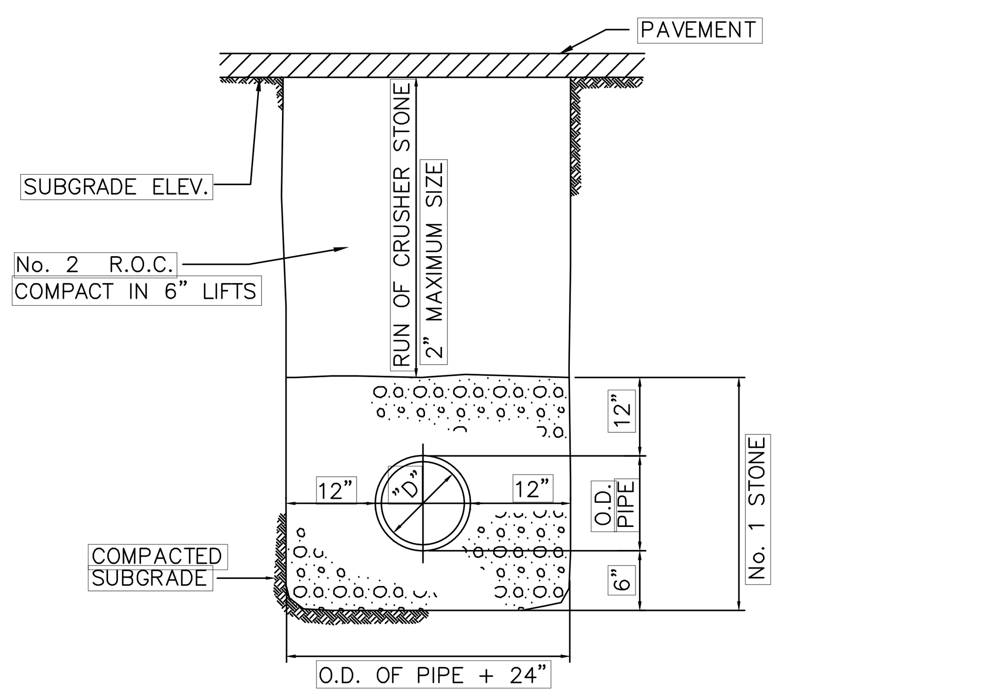
MAP SHOWING BOUNDARY & TOPOGRAPHIC SURVEY OF PROPERTY OWNED BY SOUTH BUFFALO DEVELOPMENT LLC, LOT 134 & 137, TOWNSHIP 10, RANGE 8, CITY OF BUFFALO, COUNTY OF ERIE, STATE OF NEW YORK; TAX PARCEL IDS: 122.12-1-35.1 & 122.12-1-36, PREPARED BY NIAGARA BOUNDARY AND MAPPING SERVICES; DATED DECEMBER 19, 2016 AND LAST REVISED JANUARY 4, 2017, JOB NO. 6941-16.

FACILITY CROSSING - PLAN VIEW
AAR/DOT Crossing No. 864979D
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.



FACILITY CROSSING - PROFILE VIEW
SCALE: 1" = 20'H / 1"=2'V



PAVEMENT/GUTTER SECTION

NOTES:
1. SAW CUT ALL EDGES OF EXISTING PAVEMENT AND BASE TO FULL DEPTH IN ONE PASS.
2. GENERAL EXCAVATION, ALL SPOIL MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
3. PLACE A MIN. OF 6" OF #1 STONE SCOOPED TO RECEIVE PIPE WITH "NO BEARING ON BELL".

STORM SEWER TRENCH DETAILS
NTS

CONSTRUCTION NOTES AND SPECIFICATIONS

1. UTILITIES AS SHOWN ON THESE DRAWINGS ARE PLOTTED FROM FIELD EVIDENCE AND INFORMATION SUPPLIED BY VARIOUS UTILITY AGENCIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. ADVANCED DESIGN GROUP P.E. & L.S., P.C. ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE UNDERGROUND UTILITIES. CONTRACTORS MUST CALL U.F.P.O. AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION 1-800-962-7962. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL PROPOSED ELEVATIONS SHOWN HEREON ARE FINISHED GRADE ELEVATIONS.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NORFOLK SOUTHERN CORPORATION SPECIFICATIONS FOR PIPELINE OCCUPANCY OF NORFOLK SOUTHERN CORPORATION PROPERTY, BUFFALO SEWER AUTHORITY AND THE CITY OF BUFFALO CONSTRUCTION SPECIFICATIONS, RULES AND DETAILS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AND PROVIDE ALL BONDS REQUIRED FOR THIS WORK.
5. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT, IF AVAILABLE, FOR ALL WORK, OR PROVIDE TEST PITS; SUBMISSION OF A BID INDICATES THAT THE SITE CONTRACTOR AND THE GENERAL CONTRACTOR HAVE ACCEPTED THE FINDINGS OF THE REPORT/TEST PITS AND WILL PROVIDE ALL WORK IN CONFORMANCE WITH ITS RECOMMENDATIONS.
6. CONTRACTOR TO COORDINATE WITH PUBLIC AND PRIVATE UTILITY OWNERS PRIOR TO START OF CONSTRUCTION AND NOTIFY DESIGN ENGINEER OF ANY UTILITY LOCATIONS THAT MAY HAVE AN AFFECT ON THE APPROVED DESIGN.
7. CONTRACTOR TO CONTACT NORFOLK SOUTHERN DIVISION ENGINEER'S OFFICE PRIOR TO CONSTRUCTION. DIVISION ENGINEER'S OFFICE TO PROVIDE NORFOLK SOUTHERN'S INSPECTION OF THE PROJECT AND COORDINATE ALL OTHER CONSTRUCTION ASPECTS OF THE PROJECT THAT RELATE TO NORFOLK SOUTHERN (FLAGGING, TRACK WORK, PROTECTION OF SIGNAL CABLES, ETC.).
8. STEEL CASING PIPE TO HAVE A SPECIFIED MINIMUM YIELD STRENGTH OR AT LEAST 35,000 PSI.
9. JOINTS BETWEEN SECTIONS OF STEEL CASING PIPE SHALL BE FULLY WELDED AROUND THE COMPLETE CIRCUMFERENCE OF THE PIPE.
10. STEEL CASING PIPE SHALL HAVE A MINIMUM WALL THICKNESS OF 0.375 INCHES.
11. CARRIER PIPE TO BE 18" PVC SDR-35 OR BETTER.
12. CARRIER PIPE TO BE LAID WITH SUFFICIENT SLACK SO THAT IT IS NOT IN TENSION.
13. CASING PIPE FOR CARRIER PIPE SHALL HAVE BOTH ENDS OF THE CASING BLOCKED UP IN SUCH A WAY AS TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL, BUT ALLOWING LEAKAGE TO PASS IN THE EVENT OF A CARRIER BREAK.
14. THE BORING OPERATION SHALL BE PROGRESSED ON A 24-HR BASIS WITHOUT STOPPAGE (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF PIPE HAS REACHED THE RECEIVING PIT.
15. DURING THE BORING OPERATION, THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.
16. THE OVER-CUT BY THE CUTTING HEAD FOR THE BORING OPERATION SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE PIPE BY MORE THAN ½ INCH. IF VOIDS SHOULD DEVELOP OR IF THE BORED HOLE DIAMETER IS GRATER THAN THE OUTSIDE DIAMETER OF THE PIPE BY MORE THAN APPROXIMATELY 1 INCH, GROUTING OR OTHER METHODS APPROVED BY NORFOLK SOUTHERN SHALL BE EMPLOYED TO FILL SUCH VOIDS.
17. CONTRACTOR TO SUBMIT PLANS AND DESCRIPTION OF CUTTING HEAD ARRANGEMENT TO BE USED FOR THE BORING OPERATION TO NORFOLK SOUTHERN PRIOR TO CONSTRUCTION. NO WORK SHALL PROCEED UNTIL APPROVAL IS OBTAINED.
18. ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH, INTERRUPT, OR ENDANGER THE OPERATION OF TRAINS NOR DAMAGE, DESTROY, OR ENDANGER THE INTEGRITY OF RAILROAD FACILITIES. ALL WORK ON OR NEAR NORFOLK SOUTHERN PROPERTY SHALL BE CONDUCTED IN ACCORDANCE WITH NORFOLK SOUTHERN SAFETY RULES AND REGULATIONS.
19. CONTRACTOR TO OBTAIN APPROVAL OF EXCAVATION PIT DESIGN AND SHORING SYSTEM FROM THE CITY OF BUFFALO, BUFFALO SEWER AUTHORITY AND NORFOLK SOUTHERN PRIOR TO BEGINNING ANY EXCAVATION.
20. UPON COMPLETION OF BORING OPERATION, CONTRACTOR TO BACKFILL EXCAVATION PIT ACCORDING TO THE STORM SEWER TRENCH DETAIL. PAVEMENT REPAIRS TO MATCH EXISTING PAVEMENT SECTION.
21. ALL APPLICABLE ANSI, AREMA, ASTM, AWWA AND NACE STANDARDS AND SPECIFICATIONS SHALL APPLY UNLESS OTHERWISE NOTED.
22. BYPASS PUMPING TO BE PROVIDED, AS NECESSARY, FROM UPSTREAM STRUCTURE TO DOWNSTREAM STRUCTURE. EXCAVATION DE-WATERING TO BE DISCHARGED TO A SEDIMENT TRAPPING DEVICE PRIOR TO DISCHARGE.
23. EXISTING CLAY TILE PIPE TO BE AUGURED OUT ALONG WITH EXCESS MATERIAL AS CASING PIPE IS ADVANCED.
24. BUFFALO SEWER AUTHORITY TO BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NO.	DATE	REVISIONS
8		
7		
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3		
2	10/15/19	PIPELINE OCCUPANCY APPLICATION - REVISED PER AECOM COMMENTS - FOR AGENCY REVIEW - NOT FOR CONSTRUCTION
1	9/19/19	PIPELINE OCCUPANCY APPLICATION - REVISED PER B.S.A. COMMENTS - FOR AGENCY REVIEW - NOT FOR CONSTRUCTION
0	8/23/19	PIPELINE OCCUPANCY APPLICATION - FOR AGENCY REVIEW - NOT FOR CONSTRUCTION

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PROFESSIONAL ENGINEERING & LAND SURVEYING, PC
781 Cayuga Street
Lewiston, NY 14092
Phone (716) 754-2256
Fax (716) 754-4252

FACILITY CROSSING PLAN AND PROFILE

NORFOLK SOUTHERN PIPELINE OCCUPANCY PLAN

AAR/DOT No. 864979D
Lee Street
City of Buffalo, Erie County, New York 14210
Project Contact: Advanced Design Group (716) 754-2256

scale: AS NOTED | date: 8-23-19 | project no.: 18-4805 | sheet: 1 of 1