Periodic Review Report

Former Trico Plant Site
NYSDEC BCP #C915281
Buffalo, New York

May 21, 2025
Revised July 15, 2025

Prepared for:

847 Main Street, LLC and

791 Washington Street, LLC

Prepared by:

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Former Trico Plant Site (BCP Site No. C915281), located in the City of Buffalo, Erie County, New York (see Figures 1 and 2).

This PRR has been prepared in accordance with the NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010; Ref. 1) and the NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been prepared for the Site. This PRR and the associated IC/EC Form (see Appendix A) have been completed for the post-remedial period from April 26, 2024 to April 26, 2025. Appendix B includes photographs taken during the reporting period.

1.1 Site Background

847 Main Street, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC on October 24, 2013, to investigate and remediate the approximate ±2.11-acre Site located at 628 Ellicott Street (formerly 791 Washington Street), in the City of Buffalo, Erie County, New York. The BCA was amended on February 16, 2016 to add the entity 791 Washington Street, LLC and amended again on July 3, 2019 to identify 791 Washington Street, LLC as the property owner. BCP activities were performed in accordance with BCA Index #C915281-10-13.

The Site is identified as Section 111.31, Block 1, Lot 1.11 on the Erie County Tax Map. The Site is approximately ±2.11-acres in size and is bounded by a parking lot and building associated with the Innovation Center of the Buffalo Niagara Medical Campus to the north, Goodell Street to the south, Ellicott Street to the east, and Washington Street to the west (see Figure 2).

The Site consists of a complex of five former industrial buildings now totaling approximately 497,660 square feet after redevelopment with a building footprint of approximately 84,000 square feet and former Burton Street to the north. The oldest of the five (5) buildings was constructed circa 1890 as a portion of the Christian Weyand Brewery that operated at the Site until the enactment of prohibition. The building was purchased in 1920 by the Trico Products Corporation for the manufacturing of windshield wiper blades for the automobile industry. The remaining buildings were constructed from 1920 to 1954. The Trico Products Corporation operated at the Site until approximately 1993. Historic operations included electroplating, smelting, die-casting, rubber extrusion, and metal fabrication. The building complex was idle since at least 2000. The Site was purchased by 791 Washington Street, LLC in May 2017 from the Buffalo Brownfield Restoration Corporation who acquired the property in 2007.

Remediation as discussed in Section 1.2 was performed in 2019. Redevelopment activities also began in 2019 and were halted during the COVID pandemic. Redevelopment resumed in October 2022 and continued through this reporting period. Redevelopment activities related to the Site Management Plan implementation were completed in April 2024 and redevelopment activities this reporting period did not involve subsurface activities but buildout of the residential spaces within the building. The residential portions of the building have been redeveloped with the exception of the commercial spaces on the 1st and 2nd floor. A Certificate of Occupancy was issued (see Appendix C).

1.2 Remedial History

A Remedial Investigation (RI) was completed in accordance with a NYSDEC-approved Remedial Investigation & Alternative Analysis Work Plan (RI/AA WP, Ref. 2). RI activities were completed between May and June 2016 with supplemental investigation activities being completed in November and December 2016. The RI included the completion of soil borings and installation of monitoring wells/piezometers to assess soil and groundwater conditions, soil vapor intrusion (SVI) sampling (indoor, outdoor, and sub-slab air), interior utility observations, and basement surface water sampling at the Site. Results of the RI were summarized in the NYSDEC-approved Remedial Investigation/Alternatives Analysis (RI/AA, Ref. 3)

Select chlorinated volatile organic compounds (cVOCs) were detected exceeding 6NYCRR Part 375 Protection of Groundwater Soil Cleanup Objectives (PGWSCOs, Ref. 4), and select semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals (arsenic, mercury, and barium) were detected exceeding Restricted-Residential SCOs (RRSCOs) in subsurface soil samples.

cVOCs were detected exceeding TOGS 1.1.1 Groundwater Quality Standards/Guidance Values (GWQS, Ref. 5) at multiple groundwater sampling locations in the central portion of the Site. Two (2) individual SVOCs and certain naturally occurring metals were identified exceeding GWQS. VOCs were not detected above their respective GWQS in the two (2) off-site wells.

Results of the SVI sampling identified that the building requires soil vapor mitigation due to the elevated concentrations of trichloroethene (TCE), cis-1,2-dichlorethene (cis-DCE), and 1,1-dichloroethene (1,1-DCE) that were detected based on the New York State Department of Health (NYSDOH) SVI Guidance decision matrices (Ref. 6).

The results of the basement surface water sampling indicate that low levels of metals and pesticides are present in the water. No VOCs, PCBs, or herbicides were detected above method detection limits (MDLs).

Based on the findings of the RI, an Alternatives Analysis (AA) was completed. The AA outlined the Remedial Action Objectives (RAOs) and required remedial activities to be completed to achieve a Track 4 Restricted-Residential Use cleanup. The remedial actions described in the AAR, Decision Document (Ref. 7) and Remedial Action Work Plan (RAWP, Ref. 8) were as follows:

- Removal of hydraulic lifts, associated infrastructure and associated impacted soil/fill.
- In-Situ direct injection of biological amendments to address areas of the Site impacted with chlorinated VOCs in groundwater.
- Installation of an active sub-slab depressurization (ASD) system within the existing building. *[NYSDEC/NYSDOH have issued an approval letter dated March 21, 2024 to a request to not install the ASD at the Site. This is further discussed on page 3 of this section.]*
- Cleaning accessible utility and/or sewer structures with evidence of potential impacts.
- Sub-basement water removal, treatment, and discharge.
- Removing and properly disposing off-site miscellaneous abandoned regulated waste materials; and abating building components for lead, asbestos, oil staining, and PCBs as required during redevelopment.
- Maintenance and replacement of site cover system within areas of the building footprint that will undergo demolition/redevelopment.
- Development of a Site Management Plan (SMP, Ref. 9) for post-certificate of completion (COC) operation, maintenance, and monitoring.
- Filing an Environmental Easement (EE) with Erie County, which was done on October 31, 2019.

An ASD System Design Work Plan (Ref. 10) was prepared to present the results of the sub-slab communication testing that was completed in the basement of the building and to provide the ASD system design requirements. On March 13, 2024 791 Washington Street LLC submitted a Request for SMP Variance for the ASD System (Ref. 11), as the entire basement and southwest corners of the Street Level and 2nd floor portions of the building will be primarily used for indoor parking. The ventilation systems for the parking areas consist of seven (7) make up air units which bring tempered outdoor air into the parking areas, and twelve (12) exhaust fans. Three (3) of the exhaust fans (EF), EF-4 (basement parking area), EF-7 (basement parking area), and EF-12 (2nd floor parking) operate continuously and place the parking areas under negative pressure relative to the occupied spaces (see Parking Are Ventilation Drawings in Appendix D). In a letter dated March 21, 2024, NYSDEC/NYSDOH indicated that variance was acceptable, if the lowest floors of the building remain parking (not occupied), are continuously ventilated, and remaining

contamination onsite continues to decrease. If any of these conditions change, a soil vapor intrusion assessment will be required. NYSDEC/NYSDOH requested this change be reflected in the SMP.

A RAWP Addendum Work Plan (RAWP Addendum, Ref. 12) was also prepared on behalf of 847 Main Street, LLC and 791 Washington Street, LLC. The RAWP Addendum provided the scope of work to address PCB contamination that was identified in the former interior loading area and certain limited areas of the building basement that formerly contained oil-filled electrical equipment (referred to as electrical equipment areas, or EEAs). The sampling of the loading dock area and EEAs were completed in accordance with NYSDEC-approved work plans: Loading Dock Concrete & Soil Sampling Work Plan (Ref. 13) and Concrete-Slab Sampling Work Plan for Areas Formerly Containing Oil-Filled Electrical Equipment (Ref. 14), respectively. PCBs identified above 1 mg/kg were addressed by removal, off-site disposal, and cover system replacement.

In May and June 2019, groundwater amendment injections were completed to address the cVOCs detected in the groundwater within the central portion of the Site. The groundwater injections consisted of 89 injection locations within the central portion of the building and in the sidewalk along Ellicott Street east of the building. The injections consisted of three (3) amendments manufactured by Regenesis: 3-D Microemulsion (3DME, also known as HRC Advanced®); Chemical Reducing Solution (CRS®); and Bio-Dechlor Inoculum Plus (BDI), which were mixed with water in the field prior to injection. In total, 16,000 pounds (lbs) of 3DME, 6,400 lbs of CRS, and 96 lbs of BDI were injected into the subsurface groundwater. The depth of the injections ranged from 3.5 to 13.5 feet below the lower basement area and 11 to 21 fbgs in the upper basement. Groundwater sampling completed in July, August, and September 2019, to monitor the effects of the groundwater injections indicated that the groundwater amendment injections were effective in reducing the concentrations of cVOCs in the monitoring wells, as further discussed in Section 4.3.

The Site is covered by a hardscape cover system (see Figure 3) in the form of the concrete building footprint, and asphalt roadway and concrete sidewalk of former Burton Street in the northwest corner of the Site. The 2-foot-thick crushed stone cover (2-inch crusher run) systems that were placed in select areas of the Site in 2019 (e.g., the former subbasement area and former EEAs where the concrete floors were removed due to PCB contamination) were removed and replaced with hardscape (concrete slabs) as part of redevelopment activities. Exposure to remaining contamination in the soil/fill at the Site is prevented by the hardscape cover system in place over the Site.

The Site was remediated to a 6NYCRR Part 375 Track 4 Restricted-Residential use cleanup. Materials removed from the Site included: friable and non-friable ACM; paint debris; hydraulic lifts/oil; water, sediment, and sludge present within the building; miscellaneous drums and oils

from former equipment/machinery left within the building; RI derived soil and water drums; oil-filled electrical equipment (TSCA and non-TSCA); PCB-impacted concrete (TSCA and non-TSCA regulated); and decontamination water/supplies. A summary of contaminated materials removed from the Site is included in the NYSDEC-approved Final Engineering Report (FER, Ref. 15). NYSDEC issued a Certificate of Completion dated December 26, 2019 for the Site, which was filed with Erie County (File 2020016567).

In accordance with the SMP the following remedial actions needed to be completed prior to building occupancy.

- Removal of PCB contamination greater than 50 mg/kg in the suspended concrete slab on the street level of the building (future parking area) and installation of a 6-inch concrete cap over areas with less 50 mg/kg PCBs *[the concrete cap will no longer be necessary as the PCB contaminated concrete was removed in its entirely and documented in the 2023 PRR];*
- Remediation of PCBs detected above 50 mg/kg on a small area of the wall in the western portion of the former loading dock area, in consultation with NYSDEC/NYSDOH; *[this wall area was addressed in May 2023 as discussed in the 2024 PRR]*; and

Installation of the ASD system within the building in accordance with the ASD System Work Plan. *[NYSDEC/NYSDOH have issued an approval letter dated March 21, 2024 to a request to not install the ASD at the Site, as discussed above on page 3 this PRR.]*

1.3 Compliance

The Site is in compliance as the cover system is in place and the three (3) exhaust fans associated with the parking ventilation systems are in operation.

Redevelopment activities in this reporting period involved building out of residential apartment units. Activities associated with the Excavation Work Notification for Subsurface Utility & Foundation Activities (EWN, Ref. 16), as required by the SMP, were completed in April 2024.

1.4 Recommendations

Any future redevelopment activities to be conducted will be completed in accordance with the SMP and documented in the associated PRR reporting period.

2. Site Overview

The Site was remediated under the BCP to a Track 4 Restricted Residential cleanup. The remediated property is subject to a comprehensive, site-wide SMP which identifies requirements for monitoring and maintenance of engineering and institutional controls, post-remedial media (groundwater and building material) monitoring and sampling, operation of the three (3) exhaust fans associated with the parking area ventilation systems, and procedures for post-remedial excavation, demolition, and related activities.

Redevelopment activities in this reporting period involved construction of residential apartment units and did not involve subsurface activities.

The areas surrounding the Site have not changed.

3. Remedy Performance

A post-remedial site inspection and an annual groundwater monitoring event were completed at the Site as required by the SMP during this reporting period. Per the SMP, groundwater monitoring events for years 2022 on will be completed annually.

The site inspection involving a walk-over of the Site covered by this PRR was performed to visually observe and document the use of the Site for restricted residential, commercial, and/or industrial use, confirm absence of site groundwater use, inspect the cover system integrity, and verify conformance with other requirements under the SMP. The groundwater monitoring event involved sample collection for VOC analysis, as further discussed in Section 4.3.

The cover system and three (3) exhaust fans (EF-4, -7, and -12) of the parking area ventilation systems are in place and functioning, as intended. Redevelopment activities in this reporting period involved construction of residential apartment units and did not involve subsurface activities.

The results of the groundwater sampling, as further discussed in Section 4.3, generally indicate a decrease in cVOC concentrations compared to concentrations observed prior to remedial activities. Further monitoring will be completed as required by the SMP.

The completed IC/EC Certification forms and site photographs are included in Appendices A and B, respectively.

4. Site Management Plan

A site-wide SMP was prepared for the Site and approved by the Department in December 2019 [A revised draft of the SMP was submitted to NYSDEC in March 2025 and is pending approval]. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since contaminated soil, groundwater, and soil vapor remains beneath the Site, Institutional Controls and Engineering Controls (IC/ECs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all IC/ECs at the Site. At the time of the site inspection, the Site is compliant with all institutional control requirements. The engineering control requirements (i.e., cover system) that have been disturbed at various locations throughout the interior as part of the redevelopment have been replaced and are compliant. The exterior portion of the cover system along Burton Street is compliance.

4.1.1 Institutional Controls (ICs)

The Site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may be used for restricted residential; commercial, industrial uses, subject to local zoning laws.
- All ECs must be operated and maintained as specified in this SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP.

- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP.
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries (BCP Site boundary) shown on Figure 2, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the Site are prohibited.

4.1.2 Engineering Controls (ECs)

Engineering controls at the Site include:

- Cover System – Exposure to remaining contamination in soil/fill at the Site is prevented by a final cover system placed over the Site. This cover system is comprised of a minimum of 6-inches of existing asphalt pavement and subbase (northeastern exterior portion of the Site along former Burton Street), concrete-covered sidewalks and concrete building slabs. Areas of interior cover system disturbed during redevelopment have been replaced/reinstalled.

- The interior parking areas in the entire Basement and southwestern portions of the Street Level and 2nd Floor of the building were outfitted with a dedicated ventilation system. The ventilation system for the parking areas consist of seven (7) make up air units which bring tempered outdoor air into the parking areas, and twelve (12) exhaust fans. EF-4, -7, and -12 operate continuously and place the parking areas under negative pressure relative to the occupied spaces.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the NYSDEC-approved SMP for the Site. The EWP provides guidelines for the management of soil/fill material during intrusive activities. Future intrusive work that will penetrate the cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, will be performed in compliance with the EWP.

4.2.1 Site Redevelopment Activities[1]

Redevelopment activities began in late October 2022 and continued into the current reporting period. However, subsurface activities were completed in the previous reporting period (April 2024), and the cover system has been in-place since that time.

Redevelopment activities in this reporting period involved construction of residential apartment units and did not involve subsurface activities.

4.3 Post-Remediation Media Monitoring and Sampling

Three (3) monitoring wells (RIMW-2, RIMW-4, and RIMW-7R) were required to be sampled as part of the current approved groundwater monitoring plan. The three (3) wells were sampled in July 2024. The groundwater wells are sampled for Target Compound List (TCL) VOCs. The results of the groundwater sampling are summarized in Table 1 and the groundwater laboratory reports are included in Appendix E with the groundwater field forms. Figure 4 contains monitoring well locations and analytical results for the monitoring wells with GWQS exceedances. Table 1 also includes the historic sample results dating back to 2016, which represent pre-remedial conditions, and from 2019 on which represent post-remedial conditions following the groundwater injections, for comparative purposes. The results of the sampling are discussed below by location.

RIMW-2: TCE (6 ug/l) was the only compound detected above method detection limits and was detected slightly above its respective GWQS of 5 ug/l. Prior to remedial actions, TCE was present in RWMW-2 at 11 ug/l. TCE concentrations at this location since the remedial injections (2019) which have fluctuated from 4.3 to 7.8 ug/l in the past 10 sampling events, with an average TCE concentration of 5.7 ug/l, an average decrease of 48%.

RIMW-4: cis-DCE, trans-DCE, and VC were detected above their respective GWQS in the 2024 sampling event. Total cVOC concentrations were approximately 425 ug/l prior to remedial injections and the most recent event was 124 ug/l, about a 71% decrease. There was a slight increase this past round, but the average total cVOC concentration over the past 5 years (7 sample rounds 2020 through 2024) is 137 ug/l, about a 68% decrease.

As requested by NYSDEC (June 25, 2024 Site Management & PRR response letter), MW-4 was developed (10 well volumes were removed, see logs in Appendix E) and the bottom depth of the 1-inch well at this location was confirmed at approximately 11 fbgs.

[1] Although not believed to be related to the remedies applied at the Site under the BCP, Ownership has been made aware of a nuisance odor in a few currently unoccupied units on the 4th floor. Testing to determine the source and possible cause is ongoing.

RIMW-7/7R: cis-DCE, trans-DCE, TCE, and total xylene were detected above their respective GWQS and the total cVOC concentrations were 64 ug/l compared to total CVOCs of 225.5 ug/l, prior to remedial injections, an approximate 71% decrease. This location could not be sampled 2020 through 2022, as building debris was covering the location.

The results of the annual post-remediation groundwater sampling continue to indicate there has been improvement in the groundwater quality at the Site since the groundwater remedial action has been completed. Groundwater monitoring will continue on an annual basis, as required by the SMP.

In this reporting period and with NYSDEC approval, monitoring wells, RIMW-1, -3, -5, -6, and -8 were decommissioned. The monitoring well decommissioning logs are included in Appendix F.

4.4 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the institutional controls and engineering controls employed on the Site are unchanged from the original design and/or previous certification. The Annual Certification includes a Site Inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to verify that:

- the IC/ECs are in place, effective, performing as designed,
- nothing has occurred that would impair the ability of the controls to protect the public health and environment,
- nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls, and
- access is available to the Site to evaluate continued maintenance of such controls.

Inspection of the Site was conducted by Mr. Christopher Boron. P.G. of Roux on April 24, 2025, a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, no subsurface work was observed and the cover system and parking area ventilation systems (EF-4, -7, and -12) were in operation.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A.

Any future redevelopment activities that disturb the existing cover system are subject to the NYSDEC-approved SMP.

4.5 Operation, Monitoring and Maintenance Plan

A SMP Variance was prepared and submitted to NYSDEC/NYSDOH on March 13, 2024, which requested the use of the basement ventilation systems from the indoor parking areas to be used to address the SVI concern at the Site prior to building occupancy. NYSDEC/NYSDOH issued a letter on March 21, 2024, indicating that the SMP Variance was acceptable, "*as long as the lowest floors of the building remain parking (not occupied), are continuously ventilated, and remaining contamination onsite continues to decrease. If any of these conditions change, a soil vapor intrusion assessment will be required*.".

The basement parking areas are outfitted with a ventilation system. Two (2) exhaust fans (EF-4 and EF-7) associated with the ventilation system in the basement operate continuously and place the basement parking area under negative pressure relative to the occupied spaces on the floors above. This building control for the Site was installed post-COC (during redevelopment construction activities) and prior to building occupancy. Additionally, EF-12, in the 2nd floor parking area also operates continuously.

If the exhaust fans are not in operation, a licensed HVAC contractor should be contacted to assess and repair the exhaust fans, as needed.

5. Conclusions and Recommendations

Conclusions for this reporting period are as follows:

- The cover system and the parking area ventilation system are in place and functioning as intended.
- No redevelopment activities associated with cover system disturbance were completed in this reporting period.
- Groundwater sampling performed during the reporting period, as required by the SMP, indicates continued decrease in cVOC concentrations at the Site and improvement in the groundwater quality since remedial actions have been completed.
- Monitoring wells, RIMW-1, -3, -5, -6, and -8 were decommissioned during this reporting period.
- Annual sampling will be completed at RIMW-2, RIMW-4, and RIMW-7R in June/July 2025.
- The SMP was revised during this reporting period and submitted to NYSDEC for review and approval.

Recommendations for the next reporting period are as follows:

- Any future disturbances of the cover system will require a SMP EWP Notification to submitted to NYSDEC for review and approval prior to initiating any subsurface work.

6. Declaration/Limitation

Personnel under direct supervision of Roux conducted the annual site inspection for BCP Site No. C915281, located in Buffalo, New York, according to generally accepted practices. This report complied with the scope of work provided to 847 Main Street, LLC and 791 Washington Street LLC, by Roux.

This report has been prepared for the exclusive use of 847 Main Street, LLC and 791 Washington Street, LLC. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of 847 Main Street, LLC and 791 Washington Street, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Roux.

References

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12. Benchmark Environmental Engineering & Science, PLLC. *Remedial Action Work Plan Addendum, Former Trico Plant, BCP Site C915281*. December 2019.

13. Benchmark Environmental Engineering & Science, PLLC. *Loading Dock Concrete & Soil Sampling Work Plan, Former Trico Plant (BCP Site No. C9152811)*. November 18, 2019.

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16. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Excavation Work Notification, Former Trico Plant, BCP Site No. C915281, Excavation Work notification for Subsurface Utility & Foundation Activities.* October 19, 2019.

17. Benchmark Civil/Environmental Engineering & Geology, PLLC. *Work Plan for Removal of Interior PCB-Impacted Wall, Former Trico Plant (BCP Site No. C915281), 791 Washington Street, Buffalo, New York.* May 11, 2023.

TABLES

Table 1
Summary of Groundwater Analytical Results
Former Trico Plant
Buffalo, New York

PARAMETER [1]	GWQS [2]	RI MW-1 DECOMMISSIONED	RI MW-2											RI MW-3 DECOMMISSIONED	RI MW-4											RI MW-5 DECOMMISSIONED
		06/14/16	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	06/28/23	07/25/24	06/14/16	06/14/16	07/01/19	08/09/19	09/14/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	06/28/23	07/25/24	06/14/16
Volatile Organic Compounds (VOCs) - ug/L																										
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	44	ND	5.8 J	ND	ND	ND	ND	ND	ND	ND	ND	3 J	3.2 J	ND	12	12	8.8 J	13 J	5.4 J	6 J	ND	ND	ND	ND
Benzene	1	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.73 J	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60	ND	0.96 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	0.98 J	3	ND	0.37 J	ND	ND	0.41 J	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**140**	**110**	ND	**120**	**180**	**34**	**7.7**	**8.9**	4.7	**6**	**19**	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	--	0.64 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	2.1 J	1.8	1.5	0.94	ND	1.3 J	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**200**	**160**	ND	**89**	**230 D**	**54**	**50**	**39**	**49**	**43**	**59**	ND
Trichloroethene	5	ND	**11**	4.4	**6.1**	**5.3**	**6.8**	**7.8**	4.3	**6.4**	**5.3**	4.6	**6**	ND	**82**	**78**	1.3	**32**	1.1 J	ND	ND	ND	ND	ND	0.96 J	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.1**	**8.7**	ND	**9.3**	**73**	**17**	**8**	**9.6**	**6.4**	**12**	**45**	ND
Xylenes , total	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6 J	ND
TOTAL cVOCs	--	0	11	4.4	6.1	5.3	6.8	7.8	4.3	6.4	5.3	4.6	6	0	424.7 J	356.7	1.3	250.3	484.1	105	66	58	60	61	123.96 J	0
Total VOCs	--	0.64	55.96	5.4	22.9	5.3	6.8	7.8	4.3	6.4	5.3	4.6	6	4.66	429.9	391.4	27.86	263.28	495.9 J	120,1	73.3	65	61	61	127.86 J	0
Semi-Volatile Organic Compounds (SVOCs) - ug/L																										
Acetophenone	--	ND	0.95 J	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Benzaldehyde	--	ND	ND	--	--	--	--	--	--	--	--	--	--	0.28 J	ND	--	--	--	--	--	--	--	--	--	--	ND
Benzo(a)pyrene	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Benzo(b)fluoranthene	0.002	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Benzo(ghi)perylene	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Butyl benzyl phthalate	50	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Chrysene	0.002	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Diethyl phthalate	50	ND	ND	--	--	--	--	--	--	--	--	--	--	0.7 J	ND	--	--	--	--	--	--	--	--	--	--	ND
Fluoranthene	50	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Phenanthrene	50	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Pyrene	50	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Total Metals - ug/L																										
Aluminum	--	24,400	3,200	--	--	--	--	--	--	--	--	--	--	69,800	122,000	--	--	--	--	--	--	--	--	--	--	15,000
Arsenic	25	ND	ND	--	--	--	--	--	--	--	--	--	--	**26**	**48**	--	--	--	--	--	--	--	--	--	--	ND
Barium	1,000	340 B	55 B	--	--	--	--	--	--	--	--	--	--	**1600 B**	850 B	--	--	--	--	--	--	--	--	--	--	180 B
Beryllium	3	ND	ND	--	--	--	--	--	--	--	--	--	--	2.9	**5.1**	--	--	--	--	--	--	--	--	--	--	ND
Cadmium	5	2.2	ND	--	--	--	--	--	--	--	--	--	--	3.9	3.8	--	--	--	--	--	--	--	--	--	--	ND
Calcium	--	610,000	219,000	--	--	--	--	--	--	--	--	--	--	849,000	1,830,000	--	--	--	--	--	--	--	--	--	--	164,000
Chromium	50	40	**110**	--	--	--	--	--	--	--	--	--	--	**110**	**170**	--	--	--	--	--	--	--	--	--	--	18
Cobalt	5	**20**	ND	--	--	--	--	--	--	--	--	--	--	**75**	**120**	--	--	--	--	--	--	--	--	--	--	**7.1**
Copper	200	42	ND	--	--	--	--	--	--	--	--	--	--	130	**210**	--	--	--	--	--	--	--	--	--	--	16
Cyanide, Total	200	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	36	--	--	--	--	--	--	--	--	--	--	ND
Iron	300	**40,800**	**3,000**	--	--	--	--	--	--	--	--	--	--	**103,000**	**185,000**	--	--	--	--	--	--	--	--	--	--	**17,800**
Lead	25	**81**	ND	--	--	--	--	--	--	--	--	--	--	**220**	**390**	--	--	--	--	--	--	--	--	--	--	**32**
Magnesium	35,000	**231,000**	**122,000**	--	--	--	--	--	--	--	--	--	--	**350,000**	**682,000**	--	--	--	--	--	--	--	--	--	--	**66,600**
Manganese	300	**1,800**	200	--	--	--	--	--	--	--	--	--	--	**4,400**	**7,400**	--	--	--	--	--	--	--	--	--	--	**540**
Mercury	0.7	ND	ND	--	--	--	--	--	--	--	--	--	--	0.65	0.47	--	--	--	--	--	--	--	--	--	--	ND
Nickel	100	44	18	--	--	--	--	--	--	--	--	--	--	**160**	**260**	--	--	--	--	--	--	--	--	--	--	17
Potassium	--	28,200	67,200	--	--	--	--	--	--	--	--	--	--	30,600	44,600	--	--	--	--	--	--	--	--	--	--	8,000
Sodium	20,000	**2,260,000**	**882,000**	--	--	--	--	--	--	--	--	--	--	**563,000**	**362,000 J**	--	--	--	--	--	--	--	--	--	--	**566,000**
Vanadium	14	**56**	ND	--	--	--	--	--	--	--	--	--	--	**150**	**240**	--	--	--	--	--	--	--	--	--	--	**26**
Zinc	2,000	370	41	--	--	--	--	--	--	--	--	--	--	1,100	820	--	--	--	--	--	--	--	--	--	--	90
Dissolved Metals - ug/L																										
Aluminum	--	--	ND	--	--	--	--	--	--	--	--	--	--	270 J	630 J	--	--	--	--	--	--	--	--	--	--	ND
Barium	1,000	--	17 J	--	--	--	--	--	--	--	--	--	--	60 J	27 J	--	--	--	--	--	--	--	--	--	--	32 J
Calcium	--	--	209,000 J	--	--	--	--	--	--	--	--	--	--	184,000 J	230,000 J	--	--	--	--	--	--	--	--	--	--	70,000 J
Cobalt	5	--	ND	--	--	--	--	--	--	--	--	--	--	**7.3 J**	ND	--	--	--	--	--	--	--	--	--	--	ND
Iron	300	--	ND	--	--	--	--	--	--	--	--	--	--	230 J	**530 J**	--	--	--	--	--	--	--	--	--	--	ND
Magnesium	35,000	--	**120,000 J**	--	--	--	--	--	--	--	--	--	--	**77,600 J**	**123,000 J**	--	--	--	--	--	--	--	--	--	--	27,400 J
Manganese	300	--	160 J	--	--	--	--	--	--	--	--	--	--	240 J	110 J	--	--	--	--	--	--	--	--	--	--	27 J
Nickel	100	--	15 J	--	--	--	--	--	--	--	--	--	--	11 J	ND	--	--	--	--	--	--	--	--	--	--	ND
Potassium	--	--	63,000 J	--	--	--	--	--	--	--	--	--	--	12800 J	17,400 J	--	--	--	--	--	--	--	--	--	--	2600 J
Sodium	20,000	--	**884,000 J**	--	--	--	--	--	--	--	--	--	--	**607000 J**	**437,000 J**	--	--	--	--	--	--	--	--	--	--	**569,000 J**
Zinc	2,000	--	15 J	--	--	--	--	--	--	--	--	--	--	27 J	ND	--	--	--	--	--	--	--	--	--	--	ND
PCB - ug/L																										
Aroclor 1248	0.09	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
Pesticides and Herbicides - ug/L																										
4,4'-DDD	0.3	ND	0.088 J	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	ND
delta-BHC	0.01	ND	ND	--	--	--	--	--	--	--	--	--	--	**0.011 J**	ND	--	--	--	--	--	--	--	--	--	--	ND
Field Measurements (Units as Indicated)																										
pH (units)	6.5 - 8.5	7.6	7.2	NT	7.39	7.33	7.3	7.04	7.24	7.11	7.33	7.32	7.54	7.5	7.5	NT	7.08	6.9	7.07	7.17	7.3	7.36	7.43	7.22	6.96	7.8
Temperature (oC)	--	11.3	8.9	NT	12.5	12.4	13.1	11.8	8.2	12.8	14.3	12.4	15.1	9.5	9.5	NT	12.9	13.7	15.5	11.7	6.8	12.1	14.3	14	15.8	10.2
Specific Conductance (uS)	--	1340	5180	NT	5199	5093	6784	5412	5838	7521	5637	5320	3799	4762	3870	NT	3776	3889	3741	5831	3848	3789	2860	4527	4150	3282
Turbidity	--	>1000	131	NT	85.2	111	60.5	34.4	65	9.12	18.1	135	7.4	>1000	>1000	NT	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	790	>1000
DO (ppm)	--	2.61	5.24	NT	1.3	4.05	1.48	1.91	2.68	2.88	1.63	1.76	2.57	4.34	2.75	NT	2.01	1.11	1.48	3.15	3.49	1.53	2.09	1.02	1.6	3.44
ORP (mV)	--	-25	-248	NT	-63	-163	196	190	197	252	162	32	80	41	-58	NT	-200	-280	-125	-76	-80	-246	-139	-141	-104	-34

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds or analytes were reported as non-detect.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

B = Compound was found in the blank and the sample.

F1 = MS and/or MSD Recovery is outside acceptance limits.

F2 = MS/MSD RPD exceeds control limits.

J = Estimated value; result is less than the reporting limit but greater than zero.

BOLD = Result exceeds GWQS.

Table 1
Summary of Groundwater Analytical Results
Former Trico Plant
Buffalo, New York

PARAMETER [1]	GWQS [2]	RI MW-6 DECOMMISSIONED											RI MW-7/7R												RI MW-8 DECOMMISSIONED
		06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	09/13/22	06/28/23	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	01/24/23	06/15/23	07/25/24	06/14/16
Volatile Organic Compounds (VOCs) - ug																									
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	2.8	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	0.57 J	ND	ND						ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	10	ND	ND	ND		ND		ND	ND	ND	ND	12 J	ND						ND	ND	ND	ND
Acetone	50	3.8 J	ND	4.4 J	ND	ND	ND		ND		ND	ND	14	ND	6.8 J	ND						ND	ND	ND	4.3 J
Benzene	1	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Carbon disulfide	60	0.38 J	ND	ND	ND	ND	ND		ND		ND	ND	0.42 J	0.33	ND	ND						0.67 J	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
cis-1,2-Dichloroethene	5	1.9	2.2	3.1	2.8	3.6	3.5		4.4		ND	**3.8 J**	**36 F1**	**45**	**40**	**39**						ND	2.7 J	**10**	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	3.1	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Methyl acetate	--	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Methylcyclohexane	--	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Methyl tert butyl ether	10	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	0.54 J	0.53 J	ND	ND						ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						ND	ND	ND	ND
trans-1,2-Dichloroethene	5	1.3	1.5	2.2	ND	1.8 J	ND		2.1		ND	ND	**100 J**	**110 D**	**110**	**100**						**65**	**68**	**17**	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	**89 J**	**110 D**	**100**	**100**						ND	1.2 J	**37**	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	**15**	**12**	**14**						**30**	**41**	ND	ND
Xylenes , total	5	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND						MD	ND	**15**	ND
TOTAL cVOCs	--	3.2	3.7	5.3	2.8	5.4 J	3.5	NS	6.5	NS	0	3.8	225.54	280.57	262	253						95	112.9	64	0
Total VOCs	--	7.38	3.7	19.7	2.8	5.4 J	3.5	NS	6.5	NS	0	3.8	239.96	281.43	280.8	253						95.7	112.9	84.9	4.3
Semi-Volatile Organic Compounds (SVO																									
Acetophenone	--	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Benzaldehyde	--	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Benzo(a)pyrene	**ND**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Benzo(b)fluoranthene	**0.002**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Benzo(ghi)perylene	--	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Butyl benzyl phthalate	**50**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	2.3 J
Chrysene	**0.002**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Diethyl phthalate	**50**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Fluoranthene	**50**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Phenanthrene	**50**	ND	---	---	---	---	---	---	---	---	---	---	0.75 J	---	---	---	---	---	---	---	---	---	---	---	ND
Pyrene	**50**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Total Metals - ug/L																									
Aluminum	--	3,700	---	---	---	---	---	---	---	---	---	---	1,800	---	---	---	---	---	---	---	---	---	---	---	1,400
Arsenic	**25**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Barium	**1,000**	120 B	---	---	---	---	---	---	---	---	---	---	180 J	---	---	---	---	---	---	---	---	---	---	---	360 B
Beryllium	**3**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Cadmium	**5**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Calcium	--	142,000	---	---	---	---	---	---	---	---	---	---	224,000	---	---	---	---	---	---	---	---	---	---	---	151,000
Chromium	**50**	5.9	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	9.9
Cobalt	**5**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	**6.6**
Copper	**200**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	13
Cyanide, Total	**200**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Iron	**300**	**3,800**	---	---	---	---	---	---	---	---	---	---	**2,100**	---	---	---	---	---	---	---	---	---	---	---	**1,700**
Lead	**25**	10	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	19
Magnesium	**35,000**	**71,700**	---	---	---	---	---	---	---	---	---	---	**103,000**	---	---	---	---	---	---	---	---	---	---	---	**61,600**
Manganese	**300**	120	---	---	---	---	---	---	---	---	---	---	140	---	---	---	---	---	---	---	---	---	---	---	160
Mercury	**0.7**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.24
Nickel	**100**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	14
Potassium	--	9,800	---	---	---	---	---	---	---	---	---	---	8,700	---	---	---	---	---	---	---	---	---	---	---	37,900
Sodium	**20,000**	**300,000**	---	---	---	---	---	---	---	---	---	---	**78,600**	---	---	---	---	---	---	---	---	---	---	---	**248,000**
Vanadium	**14**	5.5	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Zinc	**2,000**	70	---	---	---	---	---	---	---	---	---	---	100 J	---	---	---	---	---	---	---	---	---	---	---	190
Dissolved Metals - ug/L																									
Aluminum	--	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Barium	**1,000**	---	---	---	---	---	---	---	---	---	---	---	15 J	---	---	---	---	---	---	---	---	---	---	---	19 J
Calcium	--	---	---	---	---	---	---	---	---	---	---	---	215,000 J	---	---	---	---	---	---	---	---	---	---	---	144,000 J
Cobalt	**5**	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	**5.5 J**
Iron	**300**	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Magnesium	**35,000**	---	---	---	---	---	---	---	---	---	---	---	**99,900 J**	---	---	---	---	---	---	---	---	---	---	---	**59,700 J**
Manganese	**300**	---	---	---	---	---	---	---	---	---	---	---	87 J	---	---	---	---	---	---	---	---	---	---	---	120 J
Nickel	**100**	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Potassium	--	---	---	---	---	---	---	---	---	---	---	---	8,300 J	---	---	---	---	---	---	---	---	---	---	---	32,700 J
Sodium	**20,000**	---	---	---	---	---	---	---	---	---	---	---	**77,900 J**	---	---	---	---	---	---	---	---	---	---	---	**244,000 J**
Zinc	**2,000**	---	---	---	---	---	---	---	---	---	---	---	94 J	---	---	---	---	---	---	---	---	---	---	---	52 J
PCB - ug/L																									
Aroclor 1248	**0.09**	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	ND
Pesticides and Herbicides - ug/L																									
4,4'-DDD	**0.3**	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	ND
delta-BHC	**0.01**	ND	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--	--	ND
Field Measurements (Units as Indicated)																									
pH (units)	**6.5 - 8.5**	7.4	NT	7.74	7.53	7.55	7.49	NS	7.62	NS	7.42	7.42	7.2	NT	6.72	6.63	NS	NS	NS	NS		7.51	7.4	7.35	7.5
Temperature (oC)	--	9.4	NT	14.7	13.2	12.2	11.6	NS	12.9	NS	13.3	13.3	9.5	NT	12.3	12.2	NS	NS	NS	NS		7.7	12.4	14.9	9.8
Specific Conductance (uS)	--	2350	NT	1643	2038	1914	2048	NS	1907	NS	1831	1831	1793	NT	1797	1960	NS	NS	NS	NS		1647	1628	1638	2184
Turbidity	--	47.9	NT	352	92.8	143	109	NS	49.2	NS	141	141	113	NT	57.3	15.4	NS	NS	NS	NS		128	45.4	299	172
DO (ppm)	--	4.98	NT	2.82	2.35	1.71	1.95	NS	1.57	NS	1.67	1.67	5.34	NT	0.46	1.33	NS	NS	NS	NS		7.9	2.31	3.59	3.66
ORP (mV)	--	-209	NT	-152	-106	-111	-57	NS	-133	NS	20	20	-70	NT	-251	-245	NS	NS	NS	NS		-204	-196	3	-204

Was Not Sampled Due to heavy rains flooding well location

Was Not Sampled Due to heavy rains flooding well location

Was Not Sampled Due to Building Debris Over Well

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds or analytes were reported as non-detect.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

B = Compound was found in the blank and the sample.

F1 = MS and/or MSD Recovery is outside acceptance limits.

F2 = MS/MSD RPD exceeds control limits.

J = Estimated value; result is less than the reporting limit but greater than zero.

BOLD = Result exceeds GWQS.

Table 1
Summary of Groundwater Analytical Results
Former Trico Plant
Buffalo, New York

PARAMETER [1]	GWQS [2]	RI MW-9 RECOMMENDED												RI MW-10 RECOMMENDED										RI MW-11 (OFF-SITE) RECOMMENDED					RI MW-12 (OFF-SITE) RECOMMENDED				
		06/14/16	11/28/16	11/28/2016 DUP	12/09/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	06/14/16	6/14/2016 DUP	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	11/28/16	7/1/19	8/9/19	9/13/19	7/21/20	11/28/16	7/1/19	8/9/19	9/13/19	7/21/20
Volatile Organic Compounds (VOCs) - ug																																
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	11	23	4.1 J	ND	ND	ND	ND	ND	2.4 J	ND	9.6 J	ND	ND	ND	ND	ND	ND	ND	ND	8.6 J	ND	ND	ND	ND	8.1 J	ND	ND
Acetone	50	16 J	6.7	5.8	ND	ND	5.5 J	20	26	28 J	3.6 J	19 J	ND	20	19	ND	4.6 J	ND	ND	ND	ND	ND	3 J	ND	5.2 J	ND	ND	8.5	ND	6.6 J	ND	ND
Benzene	1	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.54	ND	ND	0.7	ND	0.34 J	ND	0.42 J	ND	ND
Carbon disulfide	60	1.4 J	ND	ND	ND	0.23 J	0.22 J	ND	1.5	ND	0.34 J	ND	ND	1.9	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27 J	0.65 J	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	0.99 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J	0.65 J	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	1.8 J	3.1	2.2 J	ND	ND	ND	ND	2.8	4.1	2.5	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	1.1	1.4	2.7	2.2	ND	ND	2.5	1.6 F2	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93 J	ND	ND	ND	ND	ND
Styrene	5	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	**4,200**	**8.5**	**7.2**	4.9	ND	0.38 J	1	0.68 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	0.71 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	**7**	1	0.74	0.45 J	**11**	**7.8**	4.2	3.7	ND	0.88	ND	ND	2.5	2.8	1.9	2.4	**11**	3.4	2	3.2	1.9	2	1.3	ND	ND	ND	ND	ND	0.33 J	ND	1.1	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes , total	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL cVOCs	--	4,208.8	12.6	10.14 J	5.35 J	11.71 J	8.18 J	5.2	7.18 J	4.1 J	3.38 J	2.7 J	0	2.5	2.8	1.9	2.4	3.4	2	3.2	1.9	2	1.3	2.8	1.1	1.4	2.7	2.2	0.61	0	3.6	1.6 F2	ND
Total VOCs	--	49723.5	19.3	15.94	5.35	12.93	24.9	48.2	38.78 J	32.1 J	7.32 J	21.7 J	0	24.4	26.1	2.35	17.25	3.8	2.43 J	3.2	1.9	2	1.3	6.34	1.37	15.85	3.4	3.13	9.45	0	18.72	1.6	ND
Semi-Volatile Organic Compounds (SVO																																	
Acetophenone	--	0.5 J	---	---	---	---	---	---	---	---	---	---	---	0.51 J	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzaldehyde	--	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	0.48 J	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(b)fluoranthene	0.002	**0.71 J**	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(ghi)perylene	--	0.5 J	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butyl benzyl phthalate	50	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chrysene	0.002	**0.56 J**	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethyl phthalate	50	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	50	1.1 J	---	---	---	---	---	---	---	---	---	---	---	0.68 J	0.46 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene	50	ND	---	---	---	---	---	---	---	---	---	---	---	0.74 J	0.81 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	50	0.84 J	---	---	---	---	---	---	---	---	---	---	---	0.46 J	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Metals - ug/L																																	
Aluminum	--	430	---	---	---	---	---	---	---	---	---	---	---	1300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	25	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Barium	1,000	110 B	---	---	---	---	---	---	---	---	---	---	---	49 B	44 B	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beryllium	3	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	5	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Calcium	--	104,000	---	---	---	---	---	---	---	---	---	---	---	111,000	113,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium	50	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	5	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper	200	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide, Total	200	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Iron	300	**410**	---	---	---	---	---	---	---	---	---	---	---	**1,300**	**1,200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	25	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Magnesium	35,000	**50,300**	---	---	---	---	---	---	---	---	---	---	---	**44,600**	**45,100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese	300	120	---	---	---	---	---	---	---	---	---	---	---	140	140	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	0.7	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	100	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium	--	4,000	---	---	---	---	---	---	---	---	---	---	---	9,900	9,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sodium	20,000	**84,500**	---	---	---	---	---	---	---	---	---	---	---	**89,100**	**89,100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Vanadium	14	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	2,000	760	---	---	---	---	---	---	---	---	---	---	---	31	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Metals - ug/L																																	
Aluminum	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Barium	1,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Calcium	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Iron	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Magnesium	35,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potassium	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sodium	20,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	2,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PCB - ug/L																																	
Aroclor 1248	0.09	ND	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pesticides and Herbicides - ug/L																																	
4,4'-DDD	0.3	ND	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
delta-BHC	0.01	ND	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Measurements (Units as Indicated)																																	
pH (units)	6.5 - 8.5	7.2	7.36	7.36	7.27	NT	6.49	6.99	7.24	7.44	7.65	7.42	7.41	7.1	7.1	NT	7.47	7.47	7.44	7.38	7.44	7.57	7.6	7.46	NT	7.4	7.5	7.44	7.53	NT	7.43	7.44	7.41
Temperature (oC)	--	10.5	10.1	10.1	10.8	NT	12.8	13	16	13.4	9	15.1	16	10.4	10.4	NT	13.6	13.6	13	12.6	8.6	13.2	14.1	8.4	NT	14.3	15.1	18.1	7.6	NT	14	16.5	15.4
Specific Conductance (uS)	--	1293	2503	2503	2407	NT	1568	2280	1840	1472	1017	1226	1264	1016	1016	NT	1038	1043	1262	1193	1164	1184	1263	2507	NT	2029	1976	2002	3502	NT	6191	6145	6106
Turbidity	--	122	10	10	25.8	NT	57	422	401	92	215	147	4.6	41	41	NT	6.22	25.7	34.5	32.9	111	45.3	40.4	21.7	NT	43.1	73.1	69.6	14.1	NT	56.4	152	43
DO (ppm)	--	8.48	1.99	1.99	3.26	NT	0.96	0.67	0.91	1.39	1.42	3.87	1.61	7.39	7.39	NT	1.19	4.89	1.1	2.07	1.84	2.02	2.11	2.29	NT	1.54	1.63	0.49	4.62	NT	1.46	2.03	1.69
ORP (mV)	--	47	-88	-88	-12	NT	-135	-208	-174	-92	-103	-170	-120	167	167	NT	-89	127	176	181	201	170	113	-92	NT	-230	-126	-143	-96	NT	-122	-85	-85

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds or analytes were reported as non-detect.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)

Definitions:

ND = Parameter not detected above laboratory detection limit.

"--" = No value available for the parameter; Parameter not analysed for.

B = Compound was found in the blank and the sample.

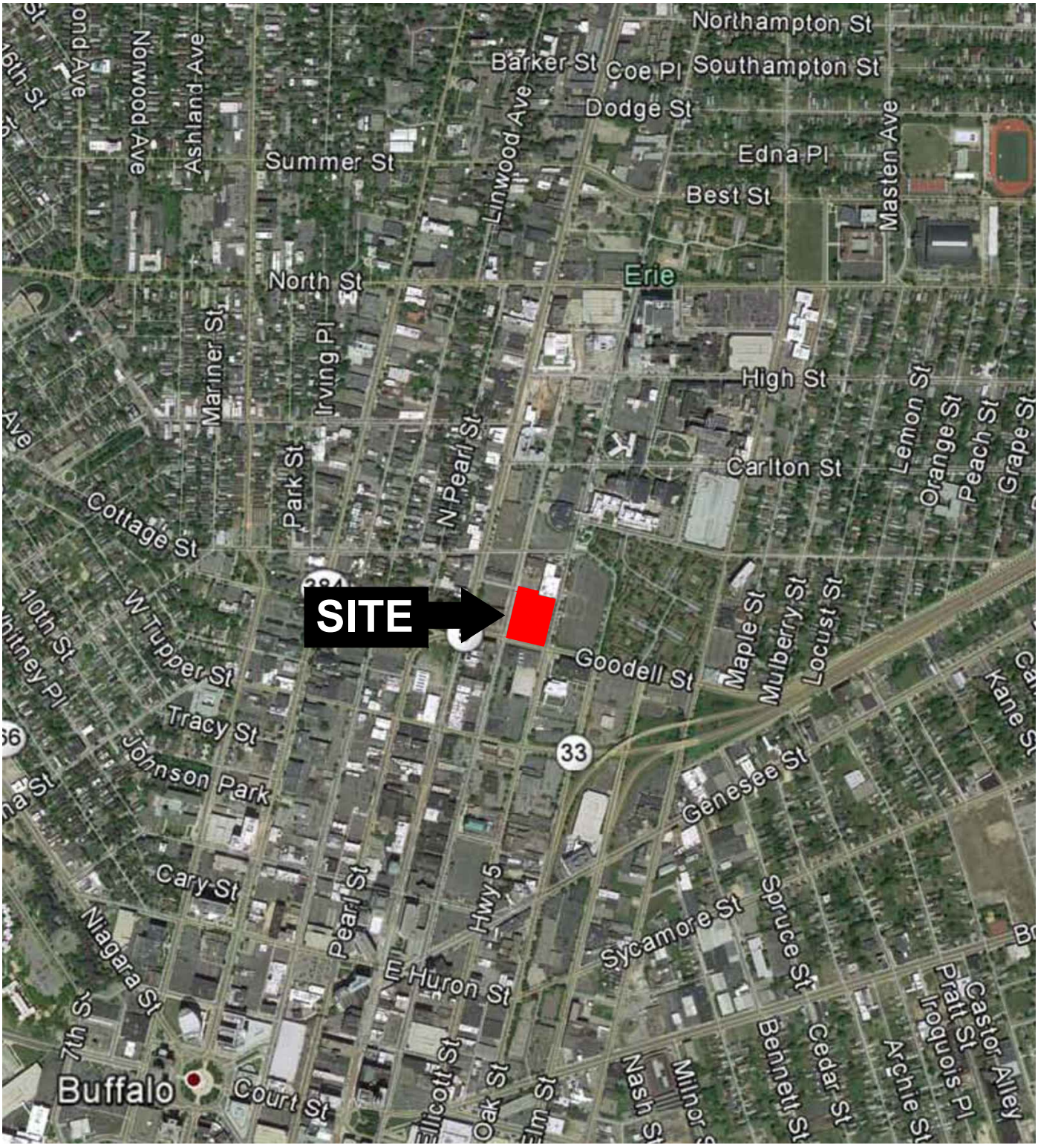
F1 = MS and/or MSD Recovery is outside acceptance limits.

F2 = MS/MSD RPD exceeds control limits.

J = Estimated value; result is less than the reporting limit but greater than zero.

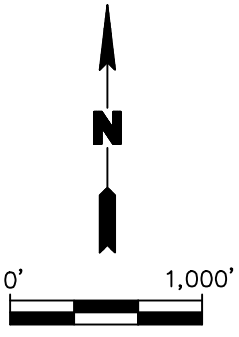
BOLD = Result exceeds GWQS.

FIGURES



QUADRANGLE LOCATION

SOURCE:
BUFFALO, NY, 2010
USGS 7.5 MINUTE TOPOGRAPHIC MAP



Title:

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915218)
628 ELLICOTT STREET, BUFFALO, NEW YORK

Prepared for:

847 MAIN STREET, LLC &
791 WASHINGTON STREET, LLC

ROUX	Compiled by: RFL	Date: MAY 2025	FIGURE 1
	Prepared by: CNK	Scale: AS SHOWN	
	Project Mgr: CZB	Project: 4398.0001B000	
	File: FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG		

F:\CAD\TURNKEY\KROG\FORMER TRICO BUILDING BCP\PERIODIC REVIEW REPORTS\2025\FIGURE 1; SITE LOCATION AND VICINITY MAP.DWG

LEGEND:

BCP SITE BOUNDARY

GOOGLE IMAGE DECEMBER 2024

N

50’ 0 50’

Title:

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915281)
628 ELLICOTT STREET, BUFFALO, NEW YORK

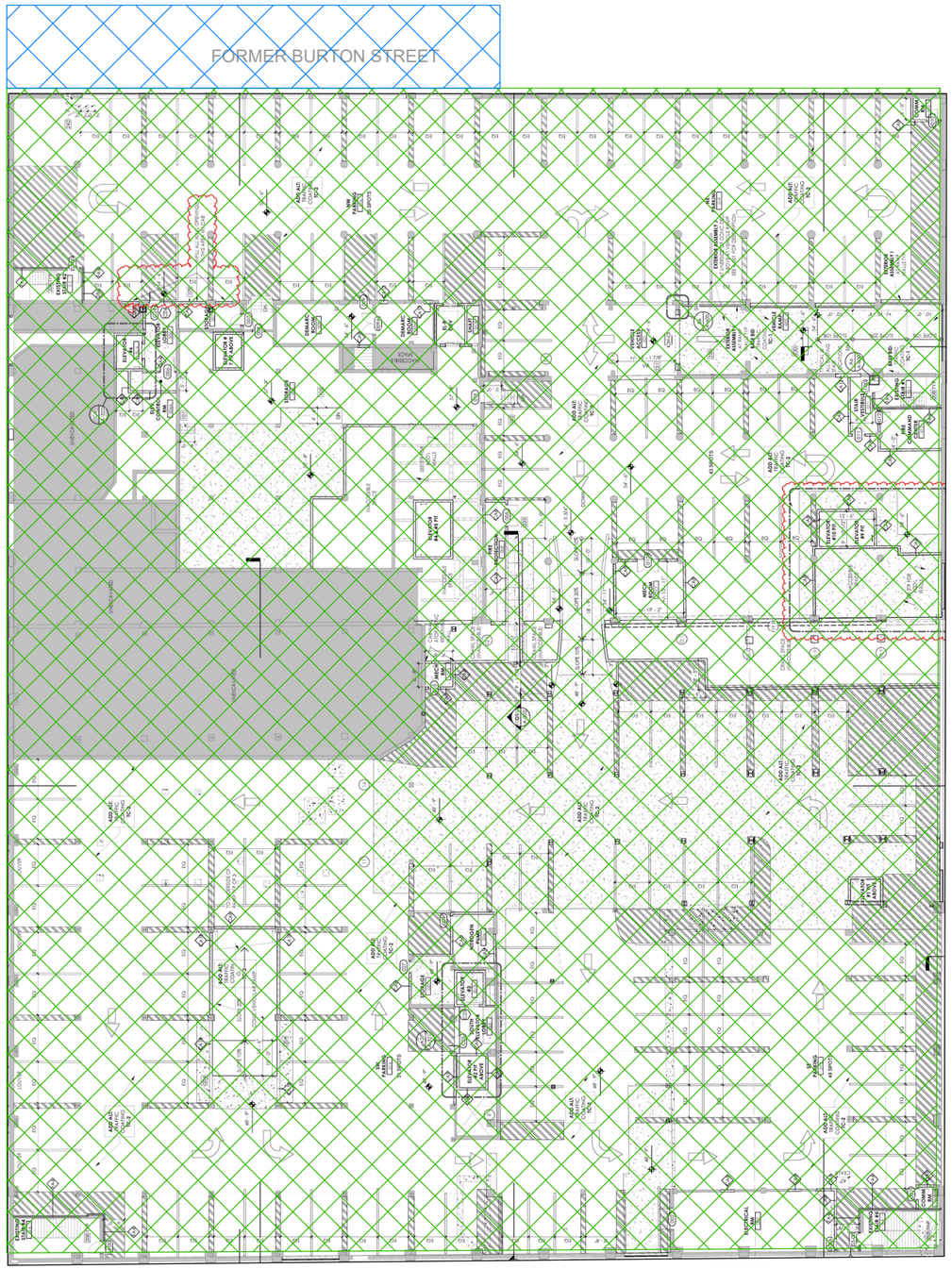
Prepared for:

847 MAIN STREET, LLC &
791 WASHINGTON STREET, LLC

ROUX

Compiled by: RFL	Date: MAY 2025	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: CZB	Project: 4398.0001B000	
File: FIGURE 2; SITE PLAN AERIAL.DWG		

F:\CAD\TURNKEY\KROG\FORMER TRICO BUILDING BCP\PERIODIC REVIEW REPORTS\2025\FIGURE 2; SITE PLAN AERIAL.DWG



LEGEND:

CONCRETE COVER SYSTEM

ASPHALT COVER SYSTEM

N

40’ 0 40’

Title:

SITE COVER SYSTEM MAP

PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915281)
628 ELLICOTT STREET, BUFFALO, NEW YORK

Prepared for:

847 MAIN STREET, LLC &
791 WASHINGTON STREET, LLC

ROUX

Compiled by: RFL	Date: MAY 2025
Prepared by: CNK	Scale: AS SHOWN
Project Mgr: CZB	Project: 4398.0001B000
File: FIGURE 3; SITE COVER SYSTEM MAP.DWG	

FIGURE 3

F:\CAD\TURNKEY\KROG\FORMER TRICO BUILDING BCP\PERIODIC REVIEW REPORTS\2025\FIGURE 3; SITE COVER SYSTEM MAP.DWG

RIMW-2											
	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	05/07/21	11/09/21	07/21/22	06/28/23	07/25/24
TCE	11	4.4	6.1	5.3	6.8	7.8	4.3	6.4	5.3	4.6	6

RIMW-7/7R							
	06/14/16	07/01/19	08/09/19	09/13/19	01/24/23	06/15/23	07/25/24
PCE	0.54	0.53	ND	ND	ND	ND	ND
CIS 1,2 DCE	36	45	40	39	ND	2.7	10
TRANS 1, 2 DCE	100	110	110	100	65	68	17
TCE	89	110	100	100	ND	1.2	37
VC	ND	15	12	14	30	41	ND
XYLENES	ND	ND	ND	ND	ND	ND	15

RIMW-4											
	06/14/16	07/01/19	08/09/19	09/14/19	07/21/20	11/20/20	05/07/21	11/09/21	7/21/22	06/28/23	07/25/24
BENZENE	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS 1,2 DCE	140	110	ND	120	180	34	7.7	8.9	4.7	6	19
TRANS 1, 2 DCE	200	160	ND	89	230	54	50	39	49	43	59
TCE	82	78	1.3	32	1.1	ND	ND	ND	ND	ND	0.96
VC	2.1	8.7	ND	9.3	73	17	8	9.6	6.4	12	45

LEGEND:

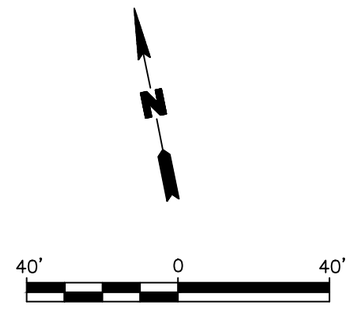
RIMW-2 — MONITORING WELL LOCATION

RIMW-9 — DECOMMISSIONED MONITORING WELL LOCATION

RIMW-2	← WELL NUMBER
06/14/16	← SAMPLE DATE
TCE 11	← CONCENTRATION (ug/l)

TCE ← COMPOUND

NOTES:
1. CIS 1, 2 DCE = CIS-1,2-DICHLOROETHENE
   TRANS 1, 2 DCE = TRANS-1,2-DICHLOROETHENE
   PCE = TETRACHLOROETHENE
   TCE = TRICHLOROETHENE
   VC = VINYL CHLORIDE
2. ug/l = MICROGRAMS PER LITER
3. ONLY DISSOLVED METAL RESULTS SHOWN
4. COMPLETE GROUNDWATER SUMMARY RESULTS PROVIDED ON TABLE 4 OF THE SMP.
5. cVOC MEANS CHLORINATED VOLATILE ORGANIC COMPOUNDS LISTED ABOVE IN NOTE 3



Title:
GROUNDWATER SAMPLING LOCATIONS AND CVOC RESULTS
PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915281)
628 ELLICOTT STREET, BUFFALO, NEW YORK

Prepared for:
847 MAIN STREET, LLC &
791 WASHINGTON STREET, LLC

ROUX

Compiled by: RFL	Date: MAY 2025	FIGURE 4
Prepared by: CNK	Scale: AS SHOWN	
Project Mgr: CZB	Project: 4398.0001B000	
File: FIGURE 4; GROUNDWATER RESULTS SUMMARY.DWG		

F:\CAD\TURNKEY\KROG\FORMER TRICO BUILDING BCP\PERIODIC REVIEW REPORTS\2025\FIGURE 4; GROUNDWATER RESULTS SUMMARY.DWG

APPENDICES

APPENDIX A

IC/EC Forms & Documentation

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. **C915281**

Site Name **Former Trico Plant**

Site Address: 628 Ellicott Street Zip Code: 14203
City/Town: Buffalo
County: Erie
Site Acreage: 2.110

Reporting Period: April 26, 2024 to April 26, 2025

	YES	NO
1. Is the information above correct?	X	☐
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?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? Building Occupancy Permit	X	☐
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? Interior residential apartments only.	X	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

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?	☐	X

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)	X	☐

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. C915281 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
111.31-1-1.11	791 Washington Street, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan O&M Plan IC/EC Plan Monitoring Plan

. Prohibition of use of groundwater.
. Restricted Residential Use.
. Soil Vapor Intrusion Evaluation for any future structures.
. Soil Management or Excavation Work Plan for any future intrusive work.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
111.31-1-1.11	Vapor Mitigation Cover System

If the lowest floors of the building remain as parking (not occupied), are continuously ventilated, and remaining contamination onsite continues to decrease, no SSDS is required. If these conditions change, a SVI assessment will be required.

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 Engineering Control 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
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the 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
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C915281

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 Peter Krog (print name) at 4 Centre Drive, Orchard Park, NY 14127 (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

5/21/25
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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.

I Christopher Boron (print name) at 2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218 (print business address),

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		5/20/25

APPENDIX B

Site Photographs

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: Burton Street, asphalt and concrete cover, looking east.

Photo 2: Burton Street, asphalt and concrete cover, looking west.

Photo 3: Exterior discharge for Exhaust Fan (EF) -7 from parking lot ventilation system on Burton Street, looking south.

Photo 4: Interior location of EF-7 in northern portion of basement parking area looking northwest.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: Exterior discharge for EF-12 from 2nd floor parking lot ventilation system on Washington Street, looking east.

Photo 6: Interior location of EF-12 on western portion of 2nd floor parking area looking southwest.

Photo 7: Exterior discharge for EF-4 from basement level parking lot ventilation system on Washington Street, looking south.

Photo 8: Interior location of EF-4 on western portion of basement level parking area looking northwest.

SITE PHOTOGRAPHS

Photo 9:

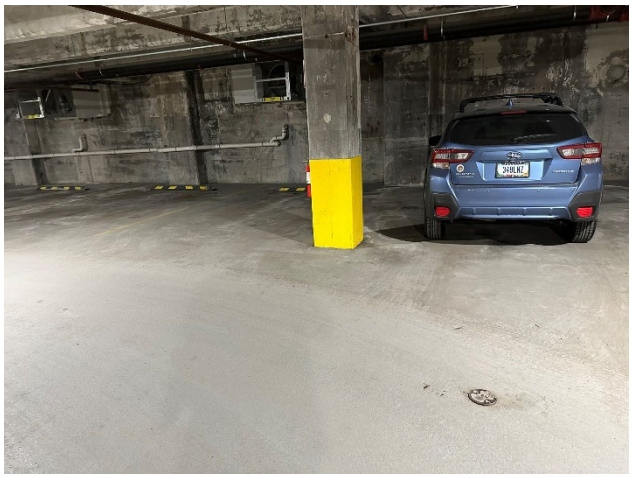


Photo 10:

Photo 11:

Photo 12:

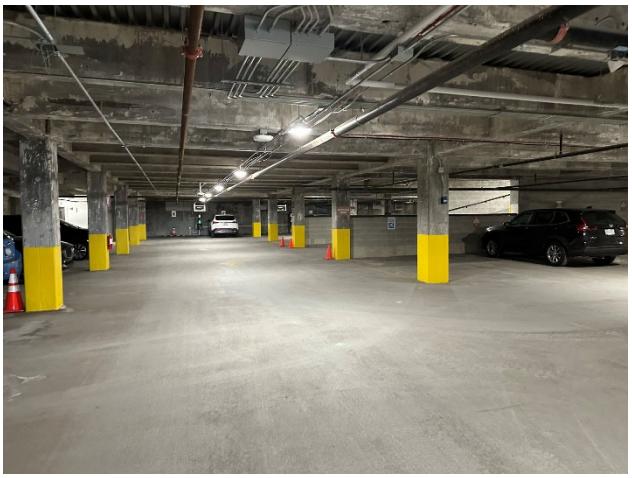


Photo 9: Concrete cover system in western central portion of basement in vicinity of MW-4, looking west.

Photo 10: MW-7R.

Photo 11: MW-2 in garage area off Washington Street

Photo 12: Concrete cover in southern portion of basement looking west.

SITE PHOTOGRAPHS

Photo 13:

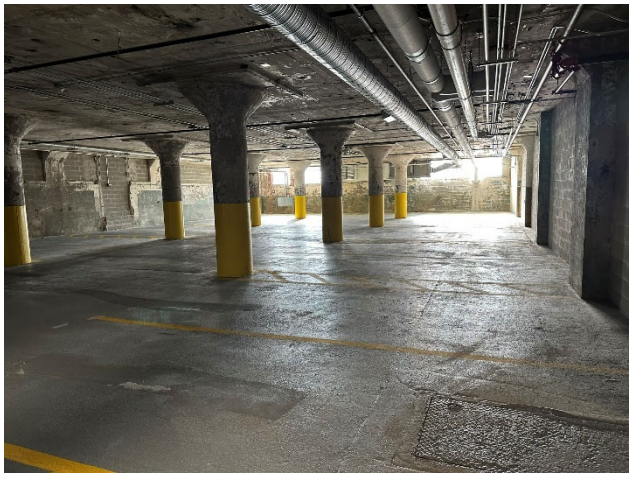


Photo 14:

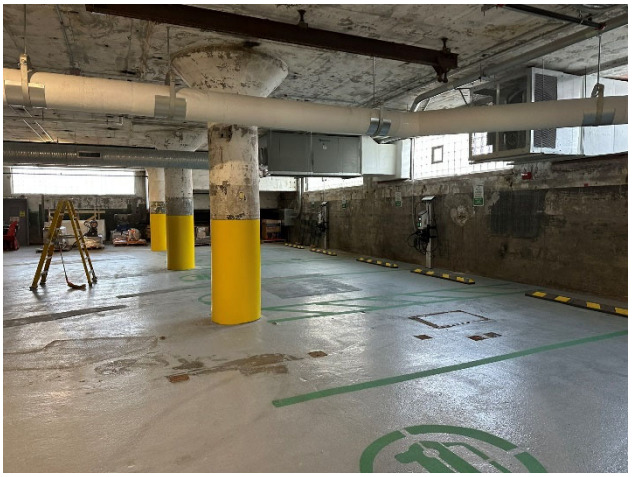


Photo 15:

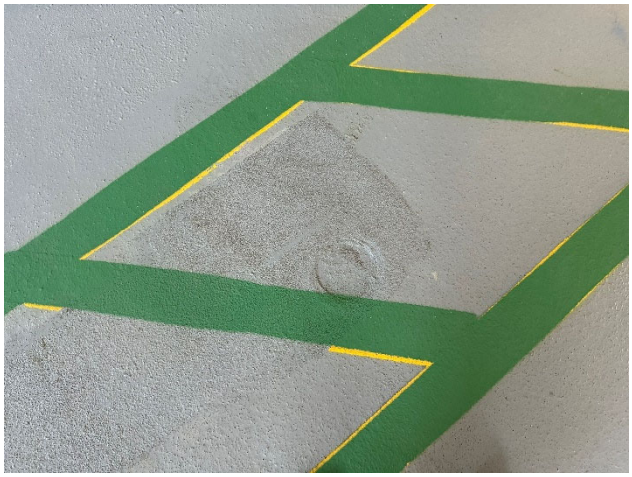


Photo 16:

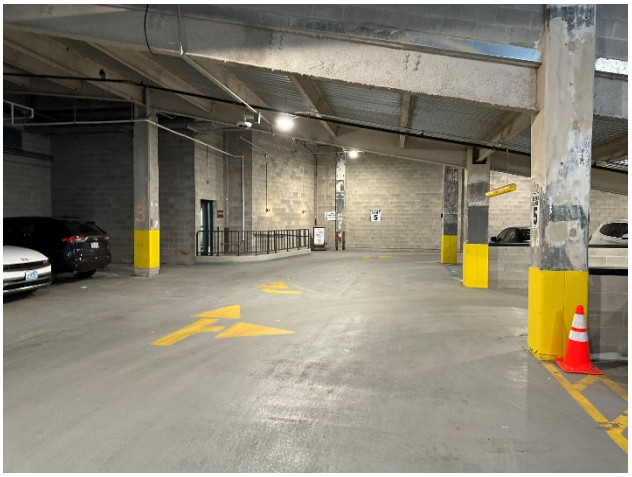


Photo 13: Concrete cover in northeastern portion of basement, looking east.

Photo 14: Concrete cover in northwestern portion of basement looking west.

Photo 15: Location of decommissioned well MW-3.

Photo 16: Entrance to parking area on street level off Washington Street, looking east.

SITE PHOTOGRAPHS

Photo 17:

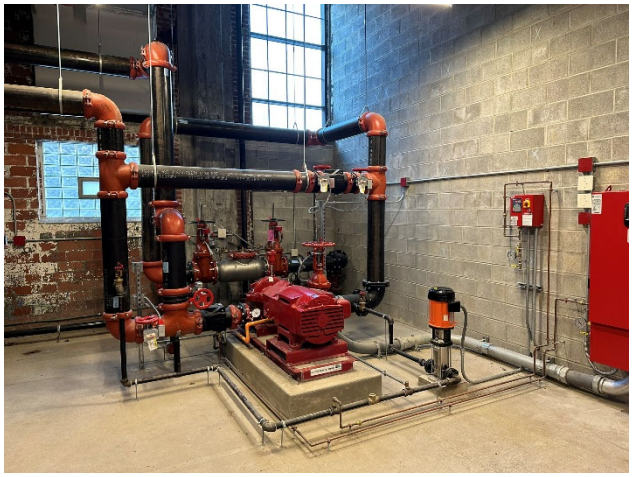


Photo 18:

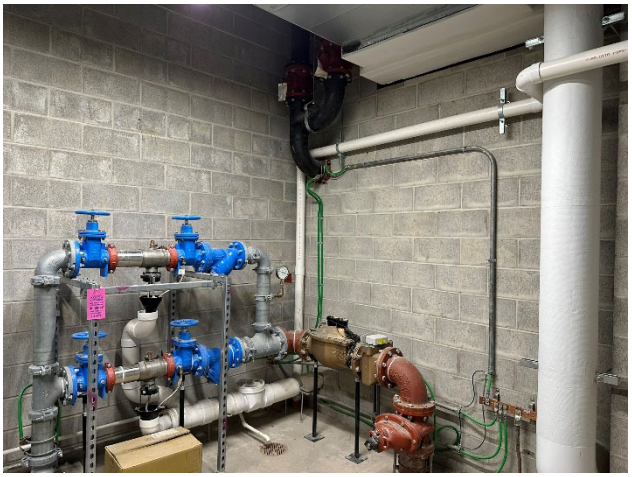


Photo 19:

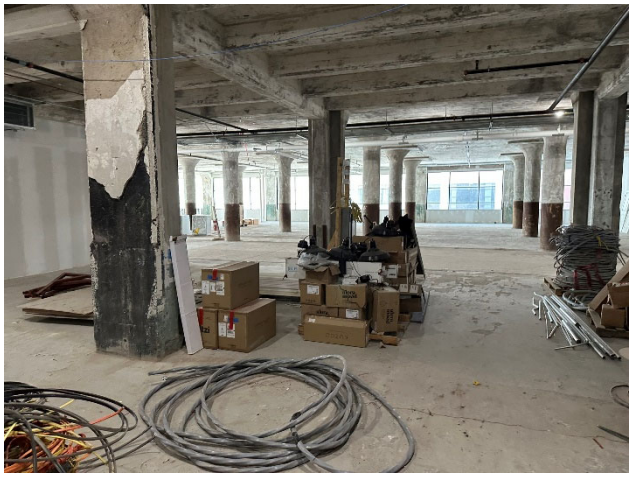


Photo 20:

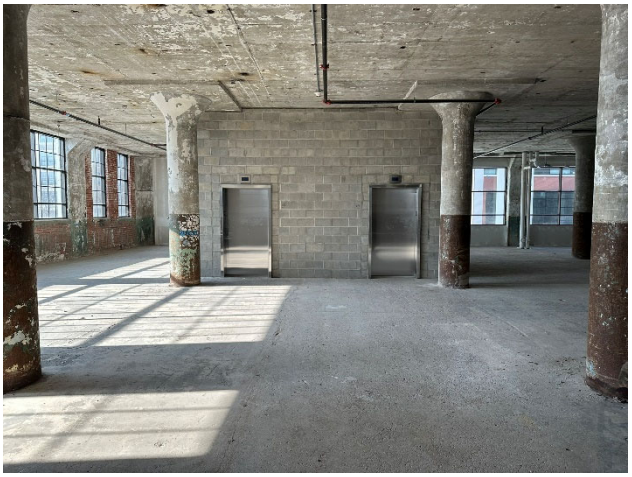


Photo 17: Fire pump room, southern portion of former location of PCB impacted wall, looking west.

Photo 18: Water pump room, northern portion of former location of PCB impacted wall, looking west.

Photo 19: 1st floor commercial space in central portion of building to be developed in future, looking south.

Photo 20: 1st floor commercial space in eastern portion of building to be developed in future, looking south.

APPENDIX C

Certificate of Occupancy

CITY OF BUFFALO

Certificate of Occupancy

Certificate No.: 10052396

In accordance with the appropriate laws of the State of New York and/or the Ordinances of the City of Buffalo the structure(s) located at **791 WASHINGTON (CONDITIONAL CERTIFICATE)** Buffalo, New York, having been inspected and found to conform substantially to applicable laws, ordinances, rules or regulations, said structure(s) is hereby certified for occupancy. This certificate is issued subject to the limitation herein specified and is valid until revoked unless automatically voided by the conditions set forth on the reverse side of this certificate.

Date Issued: 12/30/2024

Commissioner of Permit and Inspection Services

No. Units: 242 **No. Stories: 6** **No. Rooms: 0**

Construction: 1B **Class: R2** **Zoning District: N-1C**

Sprinkler: YES NFPA13 **Smoke Detectors: YES** **Carbon Monoxide Detectors: YES**

Application Codes: City Code, Zoning Ordinance, Title 19

Permit No.: 9506319 **Permit Date: 09/06/2022**

Inspector: JOSEPH SACCO **Date Inspected: 12/30/2024** **Expiration Date: 03/30/2025**

Description: 242 UNIT MULTIPLE DWELLING DWELLING (CONDITIONAL CERTIFICATE)

Commercial Space: 0 SQ. FT.

BASEMENT	LOWER SOUTH LOBBY, PARKING & BIKE ROOM
STRT. LEVEL	LOBBY, DOG WASH STATION, PARKING & LOADING DOCK
1ST FLOOR	15 DWELLING UNITS, MAINTENANCE ROOM, MANAGER'S OFFICE, RESTROOM, MEDIA & MULTI-PURPOSE ROOM
2ND FLOOR	20 DWELLING UNITS & PARKING
3RD FLOOR	42 DWELLING UNITS, ELECTRICAL ROOMS, DATA ROOMS & JANITOR'S CLOSETS
4TH FLOOR	55 DWELLING UNITS, ELECTRICAL ROOMS, DATA ROOMS, JANITOR'S CLOSET, BUSINESS CENTER & STORAGE ROOM
5TH FLOOR	58 DWELLING UNITS, ELECTRICAL ROOMS, DATA ROOMS & JANITOR'S CLOSET
6TH FLOOR	52 DWELLING UNITS, ELECTRICAL ROOMS, DATA ROOMS, COMMUNITY ROOM, FITNESS ROOM, RESTROOMS, PATIO & DOG PARK

SEE REVERSE SIDE

THIS CERTIFICATE IS NULL AND VOID IF:

1. This certificate is altered in any manner. There shall be no additions, deletions or unauthorized changes in the occupancy or use of the structure noted on the certificate at the time of issue.

2. Any substantial violation(s) of law or ordinance is found to exist subsequent to issuance of the certificate; i.e., continued compliance is required.

NOTE: Certificate issued for multiple dwellings shall be renewed every three years after the date of issue.

CITY OF BUFFALO

Certificate of Occupancy

CONDITIONS:

1) Ingress & egress to units shall be free & clear of obstructions at all times. All exits must terminate to public right of way.

2) Ongoing construction is not to interfere with operations of building.

3) Apply & approval of variance for smoke alarms on beams or installed per NYS Code.

4) Complete buildout for outdoor patio/dog walk on 6th floor and freight elevator #8.

5) Remove temporary power from parking ramp.

6) Establish 2nd power source for fire pump.

7) Future buildout for non-designated space with separate permit at street level, 1st, 2nd and 3rd floors.

Conditions to be met within 90 days.

SEE REVERSE SIDE

THIS CERTIFICATE IS NULL AND VOID IF:

1. This certificate is altered in any manner. There shall be no additions, deletions or unauthorized changes in the occupancy or use of the structure noted on the certificate at the time of issue.

2. Any substantial violation(s) of law or ordinance is found to exist subsequent to issuance of the certificate; i.e., continued compliance is required.

NOTE: Certificate issued for multiple dwellings shall be renewed every three years after the date of issue.

APPENDIX D

Parking Area Ventilation System Drawings

DIRECT GAS-FIRED MAKE-UP AIR UNIT SCHEDULE

UNIT No.	LOCATION	SERVICE	CFM	ESP "W.G.	SUPPLY FAN RPM	SONES	MOTOR		HEATING SECTION						ELECTRICAL			MANUFACTURER	MODEL	WEIGHT	REMARKS
							RPM	ENCLOSURE	INPUT	OUTPUT	EAT	LAT	EFFICIENCY	TYPE	POWER	MCA	MOP				
MAU-1	LOWER LEVEL PARKING	GARAGE HEATING	1500	1.0	1425	12.1	1725	ODP	193.7	178.2	0 °F	110 °F	92.0 %	NATURAL GAS	480-3-60	2.9	15	GREENHECK	DG-109-H10	489 LBS	SEE NOTES
MAU-2	LOWER LEVEL PARKING	GARAGE HEATING	1000	1.0	1545	15.9	1725	ODP	129.1	118.8	0 °F	110 °F	92.0 %	NATURAL GAS	480-3-60	2.3	15	GREENHECK	DG-108-H10	479 LBS	SEE NOTES
MAU-3	LOWER LEVEL PARKING	GARAGE HEATING	1500	1.0	1425	12.1	1725	ODP	193.7	178.2	0 °F	110 °F	92.0 %	NATURAL GAS	480-3-60	2.9	15	GREENHECK	DG-109-H10	489 LBS	SEE NOTES
MAU-4	LOWER LEVEL PARKING	GARAGE HEATING	1500	1.0	1425	12.1	1725	ODP	193.7	178.2	0 °F	110 °F	92.0 %	NATURAL GAS	480-3-60	2.9	15	GREENHECK	DG-109-H10	489 LBS	SEE NOTES
MAU-5	STREET LEVEL PARKING	GARAGE HEATING	1500	1.0	1425	12.1	1725	ODP	193.7	178.2	0 °F	110 °F	92.0 %	NATURAL GAS	480-3-60	2.9	15	GREENHECK	DG-109-H10	489 LBS	SEE NOTES
MAU-6	SECOND LEVEL PARKING	GARAGE HEATING	1500	1.0	1425	12.1	1725	ODP	193.7	178.2	0 °F	110 °F	92.0 %	NATURAL GAS	480-3-60	2.9	15	GREENHECK	DG-109-H10	489 LBS	SEE NOTES
MAU-7	FIRST FLOOR	LOADING DOCK	800	1.0	1567	8.9	1725	ODP	103.3	95.0	0 °F	110 °F	92.0 Ø	NATURAL GAS	208-1-60	11.7	20	GREENHECK	DG-P115-H05	369 LBS	SEE NOTES

NOTES:
1. PROVIDE OUTDOOR AIR ARRANGEMENT.
2. PROVIDE V-BANK FILTER MODULE, BURNER MODULE, AND FAN MODULE.
3. PROVIDE 120V MOTORIZED DAMPER INTERLOCKED WITH THE RESPECTIVE AIR HANDLING UNIT.
4. PROVIDE INSULATED CABINET ENCLOSURE.
5. PROVIDE FREEZE PROTECTION CONTROLS.
6. PROVIDE DISCHARGE TEMPERATURE CONTROLLER.
7. PROVIDE HANGING KIT WITH VIBRATION ISOLATORS.
8. PROVIDE FLEXIBLE DUCT CONNECTIONS.
9. PROVIDE FACTORY MOUNTED ELECTRICAL DISCONNECT SWITCH.
10. PROVIDE SMOKE DETECTORS.
11. PROVIDE DIRTY FILTER SWITCH.
12. PROVIDE BURNER CAPABLE OF 30:1 TURNDOWN.

PARKING GARAGE EXHAUST FAN SCHEDULE

UNIT No.	LOCATION	SERVICE	TYPE	CFM	ESP "W.G.	FAN			MOTOR		ELECTRICAL		MANUFACTURER	MODEL	WEIGHT	REMARKS
						SONES	RPM	DRIVE	RPM	HP	POWER	FLA				
EF-1	LOWER LEVEL PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	9,000	0.30	26	797	DIRECT	1725	2	460-3-60	-	GREENHECK	SC3-24-620-A20	80	1,5,6,7,8,9
EF-2	LOWER LEVEL PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	9,000	0.30	26	797	DIRECT	1725	2	460-3-60	-	GREENHECK	SC3-24-620-A20	80	1,5,6,7,8,9
EF-3	LOWER LEVEL PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	9,000	0.30	26	797	DIRECT	1725	2	460-3-60	-	GREENHECK	SC3-24-620-A20	80	1,5,6,7,8,9
EF-4	LOWER LEVEL PARKING	GENERAL GARAGE VENITLATION	SIDEWALL PROP	3,000	0.30	14.5	666	DIRECT	1725	3/4	460-3-60	-	GREENHECK	SC3-24-625-B7	317	1,5,6,7,8,9
EF-5	LOWER LEVEL PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	10,000	0.30	26	797	BELT	1725	1-1/2	480-3-60	3.0	GREENHECK	SBE-3H36-15	317	1,5,6,7,8,9
EF-6	LOWER LEVEL PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	10,000	0.30	26	797	BELT	1725	1-1/2	480-3-60	3.0	GREENHECK	SBE-3H36-15	317	1,5,6,7,8,9
EF-7	LOWER LEVEL PARKING	GENERAL GARAGE VENTILATION	SIDEWALL PROP	3,000	0.30	14.5	666	BELT	1725	1/3	115-1-60	7.2	GREENHECK	SBE-3H30-3	241	1,5,6,7,8,9
EF-8	FIRST FLOOR PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	7,000	0.30	23	923	BELT	1725	1	208-3-60	4.6	GREENHECK	SBE-3H30-10	254	1,5,6,7,8,9
EF-9	FIRST FLOOR PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	7,000	0.30	23	923	BELT	1725	1	208-3-60	4.6	GREENHECK	SBE-3H30-10	254	1,5,6,7,8,9
EF-10	SECOND FLOOR PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	11,000	0.30	28	844	BELT	1725	1-1/2	460-3-60	3.0	GREENHECK	SBE-3H36-15	317	1,5,6,7,8,9
EF-11	SECOND FLOOR PARKING	EMERGENCY VENTILATION	SIDEWALL PROP	12,000	0.5	32	820	BELT	1725	3	460-3-60	4.8	GREENHECK	SBE-2H36-30	171	1,5,6,7,8,9
EF-12	MECH. ROOM 207	GENERAL GARAGE VENTILATION	SIDEWALL PROP	5,100	0.30	18.1	779	BELT	1725	3/4	460-3-60	1.6	GREENHECK	SBE-3H30-7	250	1,5,6,7,8,9

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT.
2. PROVIDE FLEXIBLE DUCT CONNECTIONS.
3. PROVIDE LOW VOLTAGE MOTORIZED OPERATED DAMPER. REFER TO THE SPECIFICATIONS FOR OPERATION.
4. PROVIDE HANGING KIT WITH VIBRATIONS ISOLATORS.
5. PROVIDE WIRE GUARD FAN ENCLOSURE.
6. PROVIDE SHEET METAL PLENUM CONNECTION FULL SIZE OF OUTLET CONNECTION.
7. PROVIDE BACK-DRAFT DAMPER.
8. PROVIDE MANUFACTURER'S WALL MOUNTING BRACKET KIT.

BOILER SCHEDULE

UNIT No.	LOCATION	SERVICE	MAXIMUM INPUT (MBH)	MINIMUM INPUT (MBH)	CAPACITY (MBH)	AHRI THERMAL EFFICIENCY	TURNDOWN	FLOWRATE (GPM)	TEMPERATURE RISE (°F)	PRESSURE DROP (FT H20)	GAS CONNECTION SIZE	AIR INLET SIZE	VENTING SIZE	SHIPPING WEIGHT	POWER	FLA	"LAARS" MODEL No.	REMARKS
B-1	6TH FLOOR MECHANICAL ROOM	HOT WATER SUPPLY	2,500	125.0	2,300	92%	5:1	200	20	1.7	2"	8"Ø	9"Ø	3,652 LBS	480-3-60	8.7	MGH2500	SEE NOTES
B-2	6TH FLOOR MECHANICAL ROOM	HOT WATER SUPPLY	2,500	125.0	2,300	92%	5:1	200	20	1.7	2"	8"Ø	9"Ø	3,652 LBS	480-3-60	8.7	MGH2500	SEE NOTES
B-3	6TH FLOOR MECHANICAL ROOM	HOT WATER SUPPLY	2,500	125.0	2,300	92%	5:1	200	20	1.7	2"	8"Ø	9"Ø	3,652 LBS	480-3-60	8.7	MGH2500	SEE NOTES

NOTES:
1. PROVIDE CONDENSATE NEUTRALIZATION KIT.
2. PROVIDE 14"W.C. MAXIMUM GAS PRESSURE, 4"W.C. MINIMUM GAS PRESSURE.
3. PROVIDE HEADER SENSOR.
4. PROVIDE 10-YEAR HEAT EXCHANGER WARRANTY.
5. PROVIDE WITH BOILER PUMP - SEE PUMP SCHEDULE.

PUMP SCHEDULE

UNIT No.	LOCATION	SERVICE	FLOW (GPM)	PRESSURE DROP (FT H20)	SUCTION PIPING CONNECTION	DISCHARGE PIPING CONNECTION	PUMP SPEED (RPM)	EFFICIENCY @ DUTY POINT	HP	POWER	AMPS	TYPE	MANUFACTURER	MODEL No.	WEIGHT (LBS)	REMARKS
BP-1	6TH FLOOR MECHANICAL ROOM	BOILER B-1	105	8.0	2"	2"	-	-	3.0	460-3-60	4.0	INLINE	BELL & GOSSETT	XL 45-375	50 LBS	2
BP-2	6TH FLOOR MECHANICAL ROOM	BOILER B-2	105	8.0	2"	2"	-	-	3.0	460-3-60	4.0	INLINE	BELL & GOSSETT	XL 45-375	50 LBS	2
BP-3	6TH FLOOR MECHANICAL ROOM	BOILER B-3	105	8.0	2"	2"	-	-	3.0	460-3-60	4.0	INLINE	BELL & GOSSETT	XL 45-375	50 LBS	2
LP-1	6TH FLOOR MECHANICAL ROOM	HEAT PUMP LOOP	1800	95	8"	6"	1770	87.4%	60.0	460-3-60	-	BASE MOUNTED	BELL & GOSSETT	6E SERIES E-1510	1230 LBS	1,2,3,4
LP-2	6TH FLOOR MECHANICAL ROOM	HEAT PUMP LOOP	1800	95	8"	6"	1770	87.4%	60.0	460-3-60	-	BASE MOUNTED	BELL & GOSSETT	6E SERIES E-1510	1230 LBS	1,2,3,4
LP-3	LOWER LEVEL MECHANICAL ROOM	RADIANT FLOOR HEATING	130	50	3"	3"	-	-	5.0	460-3-60	-	INLINE	BELL & GOSSETT	E-80 2.5X2.5X9.5C	225 LBS	2
LP-5	LOWER LEVEL MECHANICAL ROOM	RADIANT ZONE 6	10	35	1-1/2"	1-1/2"	-	-	-	208-1-60	2.0	IN-LINE PACKAGED VFD	BELL & GOSSETT	XL 55-45	12 LBS	2
LP-6	3RD FLOOR MECHANICAL ROOM	RADIANT ZONE 7	17	35	1-1/2"	1-1/2"	-	-	-	208-1-60	2.0	IN-LINE PACKAGED VFD	BELL & GOSSETT	XL 55-45	41 LBS	2
CTP-1	6TH FLOOR MECHANICAL ROOM	COOLING TOWER LOOP	1800	55	8"	6"	1770	83.4%	40.0	460-3-60	-	BASE MOUNTED	BELL & GOSSETT	6BD SERIES E-1510	1085 LBS	1,3,4,5
CTP-2	6TH FLOOR MECHANICAL ROOM	COOLING TOWER LOOP	1800	55	8"	6"	1770	83.4%	40.0	460-3-60	-	BASE MOUNTED	BELL & GOSSETT	6BD SERIES E-1510	1085 LBS	1,3,4,5
TP-1	6TH FLOOR MECHANICAL ROOM	RADIANT ZONE 1 THRU 6	209	34	3"	3"	1800	74.9%	3.0	460-3-60	-	IN-LINE PACKAGED VFD	BELL & GOSSETT	XL 45-375	50 LBS	2
UP-1	6TH FLOOR MECHANICAL ROOM	HEAT PUMP LOOP - HEAT ADD	153	20	3"	3"	-	-	-	208-1-60	6.0	IN-LINE PACKAGED VFD	BELL & GOSSETT	XL 40-275	72 LBS	2
LP-7	6TH FLOOR MECHANICAL ROOM	RUN-AROUND LOOP	362	20	4"	3"	1615	78.1%	3.0	460-3-60	-	BASE MOUNTED	BELL & GOSSETT	3AD SERIES E-1510	231 LBS	1,3,4,5
LP-8	6TH FLOOR MECHANICAL ROOM	RUN-AROUND LOOP	362	20	4"	3"	1615	78.1%	3.0	460-3-60	-	BASE MOUNTED	BELL & GOSSETT	3AD SERIES E-1510	231 LBS	1,3,4,5

NOTES:
1. PROVIDE FLEXIBLE PIPE CONNECTIONS.
2. PROVIDE VARIABLE FREQUENCY DRIVES.
3. PROVIDE WITH INERTIA BASE - FILL WITH CONCRETE.
4. PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD.
5. PROVIDE STARTER / DISCONNECT.

HEAT EXCHANGER SCHEDULE

UNIT No.	LOCATION	SERVICE	TYPE	MANUFACTURER	MODEL No.	HOT SIDE						COLD SIDE						HEAT TRANSFER			INTERNAL VOLUME	DRY WEIGHT	FLOODED WEIGHT	REMARKS
						FLOW (GPM)	MEDIUM	EWT °F	LWT °F	PD (FT H2O)	CONNECTION SIZE	FLOW (GPM)	MEDIUM	EWT °F	LWT °F	PD (FT H2O)	CONNECTION SIZE	TOTAL HEAT EXCHANGED (MBH)	LMTD	EFFECTIVE SURFACE AREA (SQFT)				
HEX-1	6TH FLOOR MECHANICAL ROOM	HEAT PUMP-COOLING TOWER LOOP	PLATE & FRAME	BELL & GOSSETT	GPX AP41	900	WATER	100	90	23.1	6"	900	WATER	85	95	23.1	6"	4481.8	5 °F	736.3	50.5 GAL	2340 LBS	2761 LBS	SEE NOTES
HEX-2	6TH FLOOR MECHANICAL ROOM	HEAT PUMP-COOLING TOWER LOOP	PLATE & FRAME	BELL & GOSSETT	GPX AP41	900	WATER	100	90	23.1	6"	900	WATER	85	95	23.1	6"	4481.8	5 °F	736.3	50.5 GAL	2340 LBS	2761 LBS	SEE NOTES
HEX-3	LOWER LEVEL MECHANICAL ROOM	SNOW MELTING SYSTEM	PLATE & FRAME	TACO	PF 205-75-4-NH	209.2	WATER	140	121	4.95	3"	140	40% GLYCOL	100	130	2.9	3"	1951.3	-	188.6	-	955 LBS	1107 LBS	SEE NOTES

NOTES:
1. PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD.
2. PROVIDE AHRI LIQUID TO LIQUID HEAT EXCHANGER CERTIFICATION.

EXPANSION TANK SCHEDULE (ET)

UNIT No.	LOCATION	SERVICE	TYPE	VOLUME - ACCEPTANCE VOLUME	FLUID	CONNECTION SIZE	FACTORY CHARGE PRESSURE	DRY WEIGHT (LBS)	MANUFACTURER	MODEL No.	REMARKS
ET-1	2ND FLOOR BOILER ROOM	HEAT PUMP SYSTEM	FLOOR MOUNTED PRE-CHARGED	34 GAL	WATER	1" NPT	24PSI	224 LBS	B&G	D-120V	SEE NOTES
ET-2	2ND FLOOR BOILER ROOM	HEAT PUMP SYSTEM	FLOOR MOUNTED PRE-CHARGED	34 GAL	WATER	1" NPT	24PSI	224 LBS	B&G	D-120V	SEE NOTES
ET-3	LOWER LEVEL BOILER ROOM	RADIANT FLOOR HEATING	FLOOR MOUNTED PRE-CHARGED	23 GAL	40%- PROP. GLYCOL	1" NPT	12 PSI	120 LBS	TACO	CA90-125	SEE NOTES
ET-4	3RD FLOOR MECHANICAL ROOM	RADIANT FLOOR HEATING	BLADDER TYPE - INLINE	23 GAL	40%- PROP. GLYCOL	1" NPT	12 PSI	120 LBS	TACO	CA90-125	SEE NOTES

NOTES:
1. PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD.
2. PROVIDE ASME RATED TANK.

COOLING TOWER SCHEDULE

UNIT No.	MANUFACTURER	MODEL No.	EAT DB/WB °F	WATER FLOW RATE (GPM)	EWT °F	LWT °F	CAPACITY (NOMINAL TONS)	FANS				PIPING CONNECITONS			DIMENSIONS			ELECTRICAL						SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	REMARKS
																		TOWER			ELECTRIC BASIN HEATER					
								NO. OF FANS	AIRFLOW (EA.)	TSP WG (EA.)	HP (EA.)	WATER INLET	WATER OUTLET	CW MAKE-UP.	LENGTH	WIDTH	HEIGHT	POWER	TOWER HP	TOWER FLA	POWER	NO. HEATERS	KW EACH			
CT-1	TOWER TECH	TTXR-061975	89.7 / 78.0	1800	95.0	85.0	750	6	22,128	1.323	7.5	10"Ø	10"Ø	2"Ø	19'-3"	12'-0"	17'-¼"	460-3-60	45.0	73.8	460-3-60	2	6 KW	11,662	20,000	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE TOWER TECH MODEL "TTXR-06 ANCHOR PAD AND FOOTPAD SUPPORTS.
3. PROVIDE MODEL "T9900" CONTROL PANEL.
4. PROVIDE VDF CONTROL PANEL FOR OPERATION IN CONJUNCTION WITH VFD TOWER FANS.
5. COOLING TOWER SHALL BE PROVIDED WITH (2) SEPARATE SINGLE POWER POINT CONNECTIONS. (1) FOR THE TOWER AND (1) FOR THE BASIN HEATERS.

PACKAGED FILTRATION SYSTEM SCHEDULE

UNIT No.	LOCATION	MANUFACTURER	MODEL No.	FLOWRATE (GPM)	INLET CONNECTION	OUTLET CONNECTION	PURGE CONNECTION	MAX. PRESSURE (PSI)	MAX. TEMP (°F)	ELECTRICAL			DRY WEIGHT (LBS)	REMARKS
										POWER	FLA	PUMP HP		
FS-1	6TH FLOOR	LAKOS	TBX-0400-ABV	400	6"Ø FLANGED	4"Ø GROOVED	1-1/2"	150 PSI	100°F	460-3-60	11.0	7.5	1083 LBS	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE INLET / OUTLET VALVE KIT.
3. PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD.

WATER TO WATER HEAT PUMP SCHEDULE

UNIT No.	LOCATION	HEATING CAPACITY (MBH)	HEAT OF ABSORPTION (MBH)	INPUT (kW)	COP AHRI	SOURCE SIDE				LOAD SIDE				ELECTRICAL			BRANCH PIPING CONNECTION	JOHNSON MODEL NO.	REMARKS
						EWT °F	LWT °F	GPM	PD-FT	EWT °F	LWT °F	GPM	PD-FT	VOLTAGE	MCA	MOCP			
WWHP-1	3RD FLOOR	84.4	58.5	7.6	4.2	70	58.3	10	7.1	110	126.9	10	9.9	460-3-60	6.9	15	1-1/4"	RHSWD75	SEE NOTES

NOTES:
1. PROVIDE AUTO BALANCE HOSE KIT.
2. PROVIDE FUSED DISCONNECT SWITCH.

WATER SOURCE HEAT PUMP SCHEDULE (HORIZONTAL)

TYPE	LOCATION	NOMINAL TONAGE	CFM	GPM	PD (FT H20)	COOLING			HEATING		ELECTRICAL			BRANCH PIPING		JOHNSON CONTROLS MODEL No.	REMARKS
						CAPACITY (MBH)	SENSIBLE (MBH)	EER (AHRI)	CAPACITY (MBH)	COP	VOLTAGE	MCA	MOCP	WATER	DRAIN CONNECTION		
HP-1	2ND FLOOR	3.0	1200	7.0	7.6	35.9	28.4	14.5	N/A	N/A	460-3-60	6.9	15	1-1/4"Ø	1-1/4"Ø	RBSH036	SEE NOTES
HP-2	2ND FLOOR	4.0	1600	9.0	12.4	46.0	34.9	14.5	N/A	N/A	460-3-60	9.6	15	1-1/4"Ø	1-1/4"Ø	RBSH048	SEE NOTES
HP-3	5TH FLOOR	3.0	1200	7.0	7.6	35.9	28.4	14.5	N/A	N/A	460-3-60	6.9	15	1-1/4"Ø	1-1/4"Ø	RBSH036	SEE NOTES
HP-4	5TH FLOOR	3.0	1200	7.0	7.6	35.9	28.4	14.5	N/A	N/A	460-3-60	6.9	15	1-1/4"Ø	1-1/4"Ø	RBSH036	SEE NOTES
HP-5	STREET	0.5	350	2.0	6.2	6.9	4.7	11.3	10.1	4.41	115-1-60	9.1	15	3/4"Ø	3/4"Ø	RBSH006	SEE NOTES
HP-6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HP-7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HP-8	STREET	2.0	800	4.5	11.3	22.2	17.0	11.3	26.2	4.60	265-1-60	12.0	15	1"Ø	1-1/4"Ø	RBSH024	SEE NOTES
HP-9	4TH FLOOR	0.5	350	2.0	6.2	6.9	4.7	11.3	N/A	N/A	115-1-60	9.1	15	3/4"Ø	3/4"Ø	RBSH006	SEE NOTES
HP-10	4TH FLOOR	0.5	350	2.0	6.2	6.9	4.7	11.3	N/A	N/A	115-1-60	9.1	15	3/4"Ø	3/4"Ø	RBSH006	SEE NOTES
HP-11	4TH FLOOR	3.0	1200	7.0	7.6	35.9	28.4	14.5	N/A	N/A	460-3-60	6.9	15	1-1/4"Ø	1-1/4"Ø	RBSH036	SEE NOTES
HP-12	4TH FLOOR	3.0	1200	7.0	7.6	35.9	28.4	14.5	N/A	N/A	460-3-60	6.9	15	1-1/4"Ø	1-1/4"Ø	RBSH036	SEE NOTES
HP-13	6TH FLOOR	0.75	350	2.0	6.0	8.9	5.3	11.3	N/A	N/A	115-1-60	11.5	15	3/4"Ø	3/4"Ø	RBSH009	SEE NOTES
HP-14	6TH FLOOR	0.75	350	2.0	6.0	8.9	5.3	11.3	N/A	N/A	115-1-60	11.5	15	3/4"Ø	3/4"Ø	RBSH009	SEE NOTES
HP-15	6TH FLOOR	0.75	350	2.0	6.0	8.9	5.3	11.3	N/A	N/A	115-1-60	11.5	15	3/4"Ø	3/4"Ø	RBSH009	SEE NOTES
HP-16	6TH FLOOR	0.75	350	2.0	6.0	8.9	5.3	11.3	N/A	N/A	115-1-60	11.5	15	3/4"Ø	3/4"Ø	RBSH009	SEE NOTES

NOTES:
1. PROVIDE AUTO BALANCE HOSE KIT.
2. PROVIDE FUSED DISCONNECT SWITCH.
3. PROVIDE 5-SPEED ECM FAN MOTOR.
3. DATA BASED ON 86°F EWT DURING THE COOLING MODE AND 68°F EWT DURING THE HEATING MODE.

ELECTRIC UNIT HEATER

UNIT No.	LOCATION	FLOOR	"MARKEL" MODEL No.	CHARACTERISTICS						POWER	REMARKS
				KW	BTU'S	AMPS	CFM	TEMPERATURE RISE	MOUNTING HEIGHT		
EUH-1	NITROGEN PUMP 104	LOWER LEVEL	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-2	WATER ROOM SL7	STREET LEVEL	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-3	FIRE PUMP ROOM SL6	STREET LEVEL	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-4	FIRE PUMP ROOM SL6	STREET LEVEL	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-5	MECHANICAL ROOM	LOWER LEVEL	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-6	FIRE PROTECTION 005	LOWER LEVEL	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-7	MECH RM 207	2ND FLOOR	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES
EUH-8	6TH FLOOR MECH. RM.	6TH FLOOR	G1G5103N	3.3	11.2	11.9	400	26 °F	9' AFF	277-1-60	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT.
2. PROVIDE BUILT-IN / WALL THERMOSTAT (REFER TO FLOOR PLANS).
3. PROVIDE WALL BRACKET KIT MODEL "A5100".

ELECTRIC INFRARED HEATER SCHEDULE

UNIT No.	LOCATION	FLOOR	SERVICE	KW	BTU/HR	MOUNTING HEIGHT	No. OF LAMPS	POWER	"FOSTORIA" MODEL No.	REMARKS
EIH-1	EAST VEHICULAR ENTRY	STREET LEVEL	SNOW/ICE MELTING	4.8	16,382	10'	3	480-3-60	MTM SERIES	SEE NOTES
EIH-2	EAST VEHICULAR ENTRY	STREET LEVEL	SNOW/ICE MELTING	4.8	16,382	10'	3	480-3-60	MTM SERIES	SEE NOTES

NOTES:
1. PROVIDE ADJUSTABLE MOUNTING BRACKET.
2. PROVIDE SNOW AND ICE MELTING POWER CONTROL EQUIPMENT.
3. PROVIDE 3-LEG POWER STARTER / CONTACTOR.
4. PROVIDE WIRE GUARD.
5. MOUNT HEATER APPROXIMATELY 10'-0"-30" ASYMMETRIC ABOVE SLAB.
6. PROVIDE STAINLESS STEEL FINISH.

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Seal

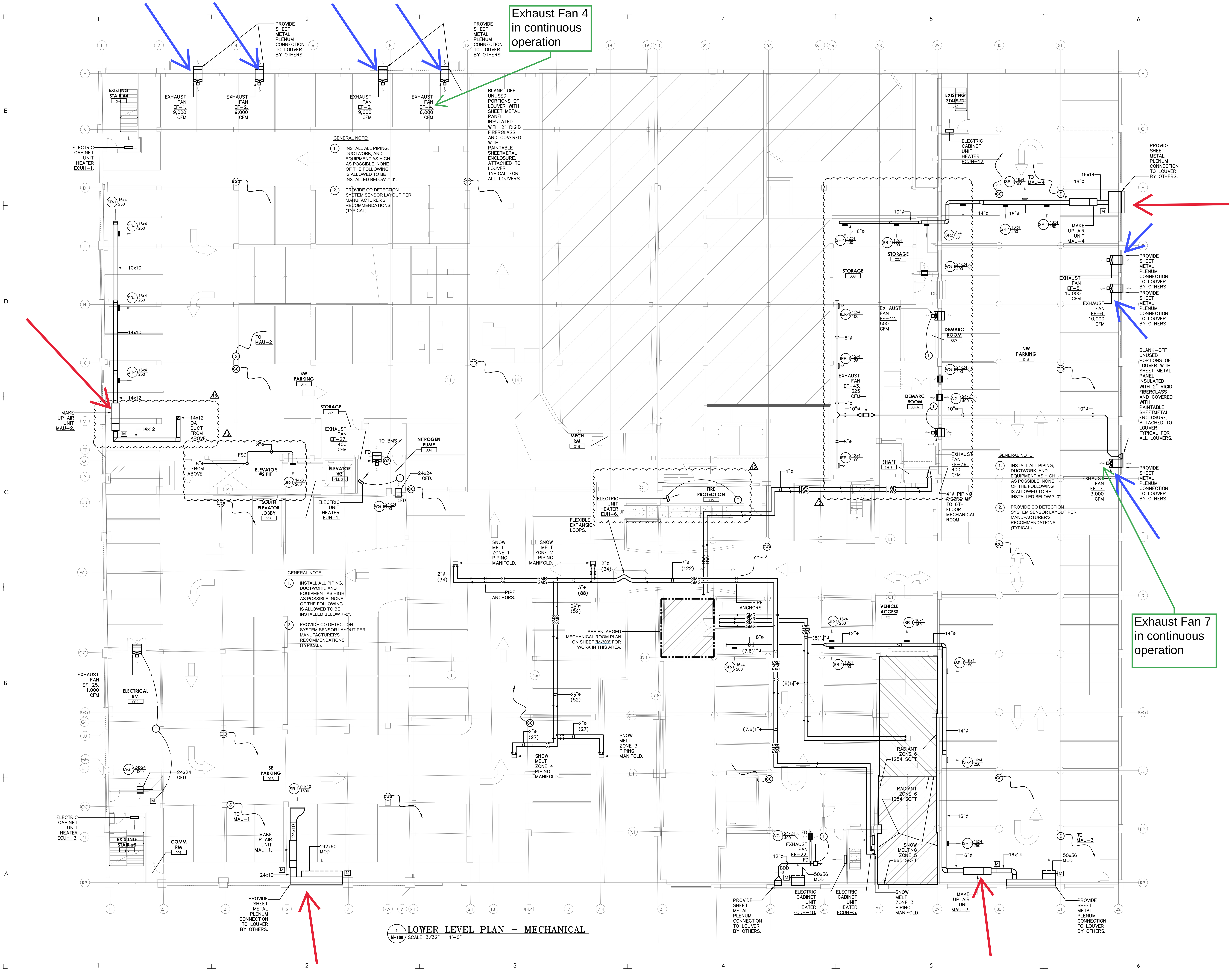
CONSTRUCTION DOCUMENTS
01/28/2022

Revisions

Description	Date
Rev 8	05/10/1
Rev 11	01/24/2
Rev 12	03/19/2
Rev 13 Permit Update	01/14/2
Rev 14	01/28/2

MECHANICAL - SCHEDULES

A|r Job No: 508.01
Client No:
Drawn by: BPZ
Sheet No:
M-001


Exhaust Fan 4 in continuous operation
Exhaust Fan 7 in continuous operation
PROVIDE SHEET METAL PLENUM CONNECTION TO LOUVER BY OTHERS.
EXHAUST FAN EF-1, 9,000 CFM
EXHAUST FAN EF-2, 9,000 CFM
EXHAUST FAN EF-3, 9,000 CFM
EXHAUST FAN EF-4, 6,000 CFM
BLANK-OFF UNUSED PORTIONS OF LOUVER WITH SHEET METAL PANEL INSULATED WITH 2" RIGID FIBERGLASS AND COVERED WITH PAINTABLE SHEETMETAL ENCLOSURE, ATTACHED TO LOUVER TYPICAL FOR ALL LOUVERS.
EXISTING STAIR #4
ELECTRIC CABINET UNIT HEATER ECUH-1.
GENERAL NOTE:
1. INSTALL ALL PIPING, DUCTWORK, AND EQUIPMENT AS HIGH AS POSSIBLE, NONE OF THE FOLLOWING IS ALLOWED TO BE INSTALLED BELOW 7'-0".
2. PROVIDE CO DETECTION SYSTEM SENSOR LAYOUT PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL).
EXISTING STAIR #2
ELECTRIC CABINET UNIT HEATER ECUH-12.
MAKE UP AIR UNIT MAU-4
EXHAUST FAN EF-5, 10,000 CFM
EXHAUST FAN EF-6, 10,000 CFM
EXHAUST FAN EF-7, 3,000 CFM
EXHAUST FAN EF-42, 500 CFM
EXHAUST FAN EF-43, 325 CFM
EXHAUST FAN EF-39, 400 CFM
STORAGE
DEMARC ROOM
NW PARKING
SW PARKING
MAKE UP AIR UNIT MAU-2.
TO MAU-2
14x12 OA DUCT FROM ABOVE
STORAGE
EXHAUST FAN EF-27, 400 CFM
TO BMS
NITROGEN PUMP
ELEVATOR #2 PIT
ELEVATOR #3
SOUTH ELEVATOR LOBBY
ELECTRIC UNIT HEATER EUH-1.
24x24 OED.
MECH RM
FIRE PROTECTION
ELECTRIC UNIT HEATER EUH-6.
FLEXIBLE EXPANSION LOOPS.
4"ø PIPING RISERS UP TO 6TH FLOOR MECHANICAL ROOM.
SHAFT
SNOW MELT ZONE 1 PIPING MANIFOLD.
SNOW MELT ZONE 2 PIPING MANIFOLD.
SNOW MELT ZONE 3 PIPING MANIFOLD.
SNOW MELT ZONE 4 PIPING MANIFOLD.
PIPE ANCHORS.
SEE ENLARGED MECHANICAL ROOM PLAN ON SHEET "M-300" FOR WORK IN THIS AREA.
VEHICLE ACCESS
RADIANT ZONE 8 1254 SQFT
RADIANT ZONE 6 1254 SQFT
SNOW MELTING ZONE 5 665 SQFT
EXHAUST FAN EF-25, 1,000 CFM
ELECTRICAL RM
SE PARKING
TO MAU-1
MAKE UP AIR UNIT MAU-1.
192x60 MOD
EXISTING STAIR #5
COMM RM
ELECTRIC CABINET UNIT HEATER ECUH-3.
EXHAUST FAN EF-22.
ELECTRIC CABINET UNIT HEATER ECUH-18.
ELECTRIC CABINET UNIT HEATER ECUH-5.
MAKE UP AIR UNIT MAU-3.
TO MAU-3
50x36 MOD
1 LOWER LEVEL PLAN – MECHANICAL M-100 SCALE: 3/32" = 1'-0"

Architectural Resources
505 Franklin St, Buffalo, New York 14202
303 West 13th Street, New York, New York 10014
716-883-5566 716-883-5569 fax

The Krog Group
4 Centre Drive
Orchard Park, NY 14127
Ph. (716) 667-1234

C.J. Brown Energy, P.C.

tredo ENGINEERS
755 Seneca Street, Suite 202, Buffalo, New York 14210

C&S Engineers
141 Elm Street, Suite 100
Buffalo, NY 14203

Trico Redevelopment

791 Washington Street, LLC
791 Washington Street
Buffalo, NY 14203

Seal

CONSTRUCTION DOCUMENTS
01/28/2022

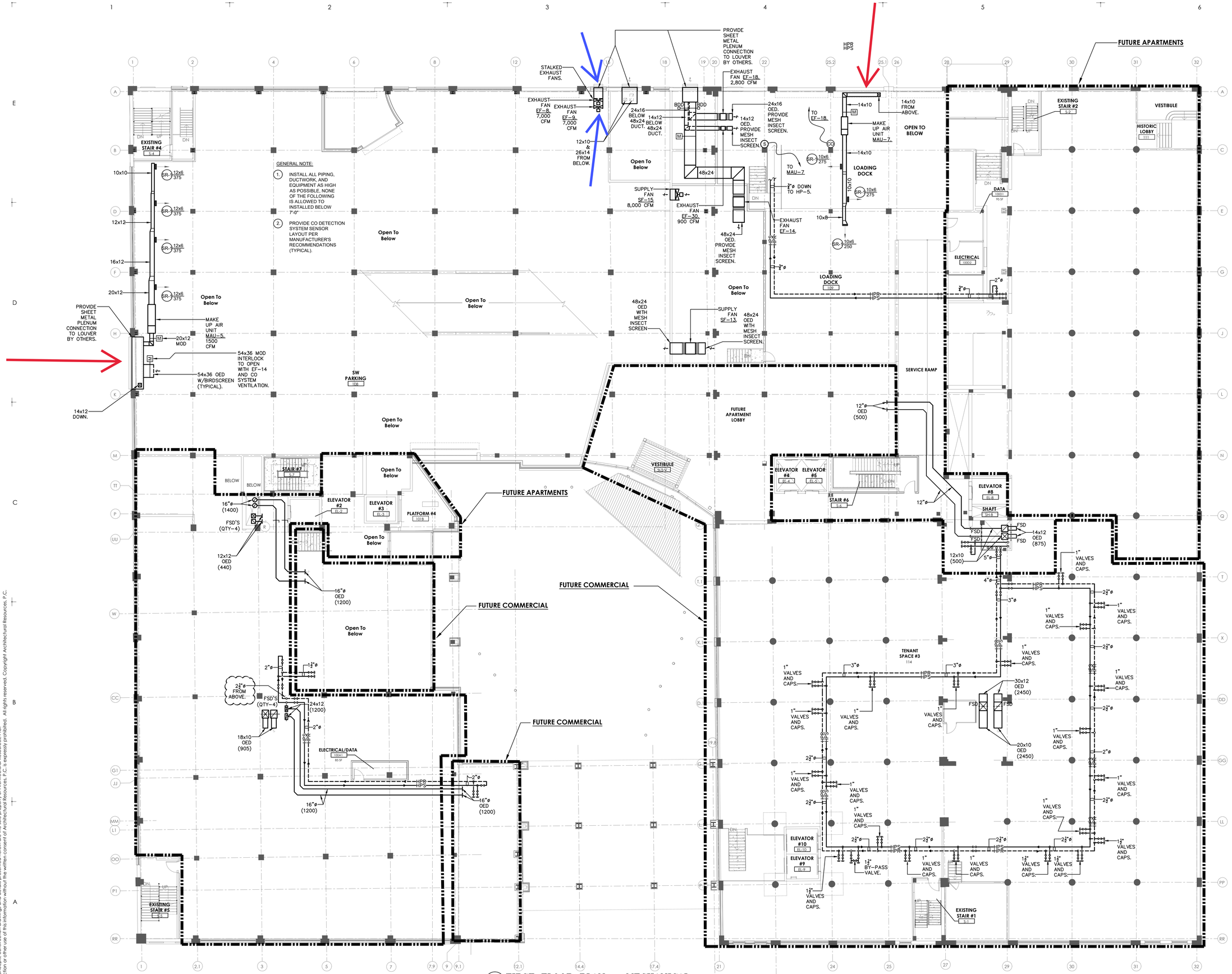
Revisions

Description	Date
Rev 8	05/10/1
Rev 11	01/24/2
Rev 12	03/19/2
Rev 13 Permit Update	01/14/2
Rev 14	01/28/2

LOWER LEVEL FLOOR PLAN MECHANICAL

A|r Job No: 508.01
Client No:
Drawn by: BPZ
Sheet No:

M-100



1 FIRST FLOOR PLAN – MECHANICAL
M-102 SCALE: 3/32" = 1'-0"

Architectural Resources
505 Franklin St
Buffalo, New York 14202
303 West 13th Street
New York, New York 10014
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The Krog Group
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Orchard Park, NY 14127
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Energy Utilization & Commissioning Specialists

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716.876.0667 fax

C&S Engineers
141 Elm Street, Suite 100
Buffalo, NY 14203
716-847-1630 716-847-1454

Trico Redevelopment
791 Washington Street, LLC
791 Washington Street
Buffalo, NY 14203

Seal

CONSTRUCTION DOCUMENTS
01/28/2022

Revisions

Description	Date
Rev 8	05/10/1
Rev 11	01/24/2
Rev 12	03/19/2
Rev 13 Permit Update	01/14/2
Rev 14	01/28/2

FIRST FLOOR PLAN MECHANICAL

A | r Job No: 508.01
Client No:
Drawn by: BPZ

Sheet No.
M-102

Exhaust Fan 12 in continuous operation

GENERAL NOTE:

1. INSTALL ALL PIPING, DUCTWORK, AND EQUIPMENT AS HIGH AS POSSIBLE. NONE OF THE FOLLOWING IS ALLOWED TO INSTALLED BELOW 7'-0"
2. PROVIDE CO DETECTION SYSTEM SENSOR LAYOUT PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL).

EXISTING STAIR #4 S-4

EXISTING STAIR #3 S-3

EXISTING STAIR #2 S-2

EXISTING STAIR #5 S-5

EXISTING STAIR #1 S-1

STAIR #7 S-7

STAIR #6 S-6

EXHAUST FAN EF-10 11,000 CFM

EXHAUST FAN EF-11 12,000 CFM

EXHAUST FAN EF-12 5,100 CFM

MECH RM 207

PROVIDE SHEET METAL PLENUM CONNECTION TO LOUVER BY OTHERS.

BLANK-OFF UNUSED PORTIONS OF LOUVERS WITH SHEETMETAL PANEL INSULATE WITH 2" RIGID FIBERGLASS AND COVERED WITH PAINTABLE SHEETMETAL ENCLOSURE ATTACHED TO LOUVER (TYP. ALL LOUVERS).

ELECTRIC CABINET UNIT HEATER ECUH-9

ELECTRIC UNIT HEATER EUH-7.

PROVIDE SHEET METAL DRIP PAN UNDER PIPING WITHIN THE ELEC. ROOM.

HEAT PUMP HP-1

HEAT PUMP HP-2

PROVIDE SHEET METAL DRIP PAN UNDER WATER PIPING WITHIN THE ELEC. RM.

MAKE UP AIR UNIT MAU-6, 1500 CFM

TO MAU-6

ELEC/DATA 200D1

VALVE ROOM 200E1

APARTMENT SPACE 204

SE PARKING 202

PARKING VESTIBULE 215

ELEC RM 200B1

ELEV CONTROL RM 215

ELEVATOR #2 EL-2

ELEVATOR #3 EL-3

ELEVATOR #4 EL-4

ELEVATOR #5 EL-5

ELEVATOR #8 EL-8

ELEVATOR #10 EL-10

ELEVATOR #9 EL-9

SOUTH ELEVATOR LOBBY 211

SHAFT SH-D

SHAFT SH-E

SHAFT SH-F

SHAFT SH-C

COMMERCIAL SPACE #4 NE 205

ELECTRICAL/DATA 200A1

FUTURE APARTMENTS

FUTURE APARTMENTS

FUTURE COMMERCIAL

HVA-LS2,2

SECOND FLOOR PLAN – MECHANICAL

M-103 SCALE: 3/32" = 1'-0"

Architectural Resources
505 Franklin St
Buffalo, New York 14202
303 West 13th Street
New York, New York 10014
716-883-5566 716-883-5569 fax

The Krog Group
4 Centre Drive
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C.J. Brown Energy, P.C
Energy Utilization & Commissioning Specialists

tredo ENGINEERS
755 Seneca Street
Suite 202
Buffalo, New York 14210
716.878.7147 ph
716.876.0667 fax

C&S Engineers
141 Elm Street, Suite 100
Buffalo, NY 14203
716-847-1630 716-847-1454

Trico Redevelopment

791 Washington Street, LLC
791 Washington Street
Buffalo, NY 14203

Seal

CONSTRUCTION DOCUMENTS

01/28/2022

Revisions

Description	Date
Rev 8	05/10/1
Rev 11	01/24/2
Rev 12	03/19/2
Rev 13 Permit Update	01/14/2
Rev 14	01/28/2

SECOND FLOOR PLAN MECHANICAL

A|r Job No: 508.01
Client No:
Drawn by: BPZ
Sheet No:

M-103

APPENDIX E

Groundwater Information

ROUX

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Trico

Project No.:

Client: Kroy

Date: ~~7~~/25/24

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	1300	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☒ 6212375 ☐ 6243003 ☐ 6223973 ☐	TAB	4.00 7.00 10.01	3.97 7.01 9.97	4.0 7.0 10.0
☒ Turbidity meter	NTU	1300	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☒ 13120C030432 (Q) ☐ 17110C062619 (Q) ☐	TAB	10 NTU verification <0.4 20 100 800	 0.21 26.3 99.6 784	 0.4 20 100 800
☒ Sp. Cond. meter	uS mS	1300	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☒ 6212375 ☐ 6243003 ☐ 6223973 ☐	TAB	7,000 mS @ 25 °C	6,990	7,000
☐ PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm	1300	HACH Model HQ30d	171932597009 ☒ 100500041867 ☐ 22293299821 ☐	TAB	100% Satuartion	✓	
☐ Particulate meter	mg/m³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: TAB **DATE:** 7/25/24

ROUX

GROUNDWATER FIELD FORM

Project Name: Trico Date: 7/25/24

Location: Project No.: Field Team:

Well No. RFMW-4			Diameter (inches): 1"			Sample Date / Time:			
Product Depth (fbTOR): —			Water Column (ft): 10.04			DTW when sampled:			
DTW (static) (fbTOR): 0.96			One Well Volume (gal): 0.41			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 11.0			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1329	0 Initial	0	6.07	16.9	3794	>1000	1.05	-30	Black sed. Sulfur
1332	1 —	0.50	6.52	16.2	3911	>1000	1.82	-69	" "
1344	2 —	1.25	6.97	16.1	4082	>1000	0.84	-92	" "
1351	3 —	2.0	6.90	16.1	4078	>1000	1.35	-1000	" "
1355	4 —	2.5	6.98	16.1	4135	>1000	1.03	-103	" "
1406	5 —	3.0	7.01	16.2	4160	>1000	1.19	-107	" "
1412	6 —	3.5	6.99	16.2	4152	>1000	0.53	-99	" "
1426	7 —	4.0	6.96	15.7	4161	656	1.38	-96	" "
	8							-	
	9								
	10								
Sample Information:									
1430	S1 —	~~0.96~~	6.96	15.4	4150	750	1.60	104	" "
	S2								

Well No. RIMW-7R			Diameter (inches): 2"			Sample Date / Time:			
Product Depth (fbTOR): —			Water Column (ft): 12.96			DTW when sampled:			
DTW (static) (fbTOR): 3.15			One Well Volume (gal): 2.11			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 16.11			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1450	0 Initial	0	7.79	14.6	1692	>1000	2.19	-55	No odor Turbid
1455	10.11	2.25	7.40	15.3	1643	948	2.22	-25	" "
1500	9.72	5.0	7.44	15.2	1605	>1000	2.37	-15	" "
1511	11.10	6.5	7.35	14.8	1645	756	2.40	-16	" "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1515	S1 9.84	—	7.35	14.9	1638	299	3.59	3	" SC Turbid
	S2								

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Trico Date: 7/25/24

Location: Project No.: Field Team:

Well No. RIMW-2			Diameter (inches): 2"			Sample Date / Time:			
Product Depth (fbTOR): –			Water Column (ft): 4.12			DTW when sampled:			
DTW (static) (fbTOR): 12.12			One Well Volume (gal): 0.67			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 16.24			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1546	0 Initial	0	7.51	15.0	3190	30.6	2.89	95	clear No odor
1552	1 12.87	0.75	7.55	15.2	3628	21.4	2.64	77	" "
1610	2 13.10	1.50	7.52	15.1	3657	14.7	3.06	80	" "
1613	3 13.61	2.0	7.45	15.2	3785	6.97	2.09	70	" "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1625	S1 13.78	–	7.54	15.1	3799	7.43	2.57	80	" "
	S2								

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Christopher Z Boron
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 8/2/2024 11:55:00 AM

JOB DESCRIPTION

Benchmark-791 Washington St.(Trico site)

JOB NUMBER

480-222106-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Eurofins Buffalo

Job Notes

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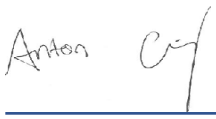
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-222106-1 Eurofins Buffalo

Job Narrative
480-222106-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/26/2024 3:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: RIMW-4 (480-222106-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: RIMW-2 (480-222106-1). Elevated reporting limits (RLs) are provided.

Method 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/or laboratory control sample duplicate (LCSD) associated with batch 480-719935 . The following samples were affected : RIMW-2 (480-222106-1), RIMW-4 (480-222106-2) and TRIP BLANK (480-222106-4).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-720077 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: RIMW-7R (480-222106-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-720077 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 associated sample is impacted: RIMW-7R (480-222106-3).

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

Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-2 — Lab Sample ID: 480-222106-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	6.0		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: RIMW-4 — Lab Sample ID: 480-222106-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		2.0	1.6	ug/L	2		8260C	Total/NA
m,p-Xylene	2.6	J	4.0	1.3	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	1.3	J	2.0	0.32	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	59		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	0.96	J	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	45		2.0	1.8	ug/L	2		8260C	Total/NA
Xylenes, Total	2.6	J	4.0	1.3	ug/L	2		8260C	Total/NA

Client Sample ID: RIMW-7R — Lab Sample ID: 480-222106-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.8		1.0	0.75	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.81	ug/L	1		8260C	Total/NA
Ethylbenzene	3.1		1.0	0.74	ug/L	1		8260C	Total/NA
m,p-Xylene	12		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	3.2		1.0	0.76	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	17		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	37		1.0	0.46	ug/L	1		8260C	Total/NA
Xylenes, Total	15		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-222106-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-2
Lab Sample ID: 480-222106-1
Date Collected: 07/25/24 16:25
Matrix: Water
Date Received: 07/26/24 15:39

Method: SW846 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			07/29/24 20:13	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/29/24 20:13	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			07/29/24 20:13	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/29/24 20:13	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/29/24 20:13	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/29/24 20:13	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			07/29/24 20:13	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			07/29/24 20:13	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			07/29/24 20:13	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			07/29/24 20:13	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			07/29/24 20:13	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/29/24 20:13	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			07/29/24 20:13	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			07/29/24 20:13	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			07/29/24 20:13	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			07/29/24 20:13	4
2-Butanone (MEK)	ND	*+	40	5.3	ug/L			07/29/24 20:13	4
2-Hexanone	ND		20	5.0	ug/L			07/29/24 20:13	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			07/29/24 20:13	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/29/24 20:13	4
Acetone	ND		40	12	ug/L			07/29/24 20:13	4
Benzene	ND		4.0	1.6	ug/L			07/29/24 20:13	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/29/24 20:13	4
Bromoform	ND		4.0	1.0	ug/L			07/29/24 20:13	4
Bromomethane	ND		4.0	2.8	ug/L			07/29/24 20:13	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/29/24 20:13	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/29/24 20:13	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/29/24 20:13	4
Chloroethane	ND		4.0	1.3	ug/L			07/29/24 20:13	4
Chloroform	ND		4.0	1.4	ug/L			07/29/24 20:13	4
Chloromethane	ND		4.0	1.4	ug/L			07/29/24 20:13	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			07/29/24 20:13	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/29/24 20:13	4
Cyclohexane	ND		4.0	0.72	ug/L			07/29/24 20:13	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/29/24 20:13	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			07/29/24 20:13	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/29/24 20:13	4
Isopropylbenzene	ND		4.0	3.2	ug/L			07/29/24 20:13	4
m,p-Xylene	ND		8.0	2.6	ug/L			07/29/24 20:13	4
Methyl acetate	ND		10	5.2	ug/L			07/29/24 20:13	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			07/29/24 20:13	4
Methylcyclohexane	ND		4.0	0.64	ug/L			07/29/24 20:13	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/29/24 20:13	4
n-Butylbenzene	ND		4.0	2.6	ug/L			07/29/24 20:13	4
N-Propylbenzene	ND		4.0	2.8	ug/L			07/29/24 20:13	4
o-Xylene	ND		4.0	3.0	ug/L			07/29/24 20:13	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			07/29/24 20:13	4
Styrene	ND		4.0	2.9	ug/L			07/29/24 20:13	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			07/29/24 20:13	4

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-2
Lab Sample ID: 480-222106-1
Date Collected: 07/25/24 16:25
Matrix: Water
Date Received: 07/26/24 15:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		4.0	1.4	ug/L			07/29/24 20:13	4
Toluene	ND		4.0	2.0	ug/L			07/29/24 20:13	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			07/29/24 20:13	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/29/24 20:13	4
Trichloroethene	**6.0**		4.0	1.8	ug/L			07/29/24 20:13	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			07/29/24 20:13	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/29/24 20:13	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/29/24 20:13	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*07/29/24 20:13*	*4*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*07/29/24 20:13*	*4*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/29/24 20:13*	*4*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-4
Lab Sample ID: 480-222106-2
Date Collected: 07/25/24 14:30
Matrix: Water
Date Received: 07/26/24 15:39

Method: SW846 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			07/29/24 20:38	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/29/24 20:38	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/29/24 20:38	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/29/24 20:38	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/29/24 20:38	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/29/24 20:38	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/29/24 20:38	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/29/24 20:38	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/29/24 20:38	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/29/24 20:38	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/29/24 20:38	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/29/24 20:38	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/29/24 20:38	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/29/24 20:38	2
2-Butanone (MEK)	ND	*+	20	2.6	ug/L			07/29/24 20:38	2
2-Hexanone	ND		10	2.5	ug/L			07/29/24 20:38	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			07/29/24 20:38	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/29/24 20:38	2
Acetone	ND		20	6.0	ug/L			07/29/24 20:38	2
Benzene	ND		2.0	0.82	ug/L			07/29/24 20:38	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/29/24 20:38	2
Bromoform	ND		2.0	0.52	ug/L			07/29/24 20:38	2
Bromomethane	ND		2.0	1.4	ug/L			07/29/24 20:38	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/29/24 20:38	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/29/24 20:38	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
Chloroethane	ND		2.0	0.64	ug/L			07/29/24 20:38	2
Chloroform	ND		2.0	0.68	ug/L			07/29/24 20:38	2
Chloromethane	ND		2.0	0.70	ug/L			07/29/24 20:38	2
cis-1,2-Dichloroethene	**19**		2.0	1.6	ug/L			07/29/24 20:38	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/29/24 20:38	2
Cyclohexane	ND		2.0	0.36	ug/L			07/29/24 20:38	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/29/24 20:38	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/29/24 20:38	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/29/24 20:38	2
m,p-Xylene	**2.6**	**J**	4.0	1.3	ug/L			07/29/24 20:38	2
Methyl acetate	ND		5.0	2.6	ug/L			07/29/24 20:38	2
Methyl tert-butyl ether	**1.3**	**J**	2.0	0.32	ug/L			07/29/24 20:38	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/29/24 20:38	2
Methylene Chloride	ND		2.0	0.88	ug/L			07/29/24 20:38	2
n-Butylbenzene	ND		2.0	1.3	ug/L			07/29/24 20:38	2
N-Propylbenzene	ND		2.0	1.4	ug/L			07/29/24 20:38	2
o-Xylene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
Styrene	ND		2.0	1.5	ug/L			07/29/24 20:38	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			07/29/24 20:38	2

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-4
Lab Sample ID: 480-222106-2
Date Collected: 07/25/24 14:30
Matrix: Water
Date Received: 07/26/24 15:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.72	ug/L			07/29/24 20:38	2
Toluene	ND		2.0	1.0	ug/L			07/29/24 20:38	2
trans-1,2-Dichloroethene	**59**		2.0	1.8	ug/L			07/29/24 20:38	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/29/24 20:38	2
Trichloroethene	**0.96**	**J**	2.0	0.92	ug/L			07/29/24 20:38	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/29/24 20:38	2
Vinyl chloride	**45**		2.0	1.8	ug/L			07/29/24 20:38	2
Xylenes, Total	**2.6**	**J**	4.0	1.3	ug/L			07/29/24 20:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*07/29/24 20:38*	*2*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/29/24 20:38*	*2*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/29/24 20:38*	*2*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-7R
Lab Sample ID: 480-222106-3
Date Collected: 07/25/24 15:15
Matrix: Water
Date Received: 07/26/24 15:39

Method: SW846 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			07/30/24 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/30/24 13:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/30/24 13:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/30/24 13:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/30/24 13:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/30/24 13:16	1
1,2,4-Trichlorobenzene	ND	*+	1.0	0.41	ug/L			07/30/24 13:16	1
1,2,4-Trimethylbenzene	**2.8**		1.0	0.75	ug/L			07/30/24 13:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/30/24 13:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/30/24 13:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/30/24 13:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/30/24 13:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/30/24 13:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/30/24 13:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/30/24 13:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/30/24 13:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/30/24 13:16	1
2-Hexanone	ND		5.0	1.2	ug/L			07/30/24 13:16	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/30/24 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/30/24 13:16	1
Acetone	ND		10	3.0	ug/L			07/30/24 13:16	1
Benzene	ND		1.0	0.41	ug/L			07/30/24 13:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/30/24 13:16	1
Bromoform	ND		1.0	0.26	ug/L			07/30/24 13:16	1
Bromomethane	ND		1.0	0.69	ug/L			07/30/24 13:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/30/24 13:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/30/24 13:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/30/24 13:16	1
Chloroethane	ND		1.0	0.32	ug/L			07/30/24 13:16	1
Chloroform	ND		1.0	0.34	ug/L			07/30/24 13:16	1
Chloromethane	ND		1.0	0.35	ug/L			07/30/24 13:16	1
cis-1,2-Dichloroethene	**10**		1.0	0.81	ug/L			07/30/24 13:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/30/24 13:16	1
Cyclohexane	ND		1.0	0.18	ug/L			07/30/24 13:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/30/24 13:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/30/24 13:16	1
Ethylbenzene	**3.1**		1.0	0.74	ug/L			07/30/24 13:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/30/24 13:16	1
m,p-Xylene	**12**		2.0	0.66	ug/L			07/30/24 13:16	1
Methyl acetate	ND		2.5	1.3	ug/L			07/30/24 13:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/30/24 13:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/30/24 13:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/30/24 13:16	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/30/24 13:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/30/24 13:16	1
o-Xylene	**3.2**		1.0	0.76	ug/L			07/30/24 13:16	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/30/24 13:16	1
Styrene	ND		1.0	0.73	ug/L			07/30/24 13:16	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/30/24 13:16	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-7R
Lab Sample ID: 480-222106-3
Date Collected: 07/25/24 15:15
Matrix: Water
Date Received: 07/26/24 15:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			07/30/24 13:16	1
Toluene	ND		1.0	0.51	ug/L			07/30/24 13:16	1
trans-1,2-Dichloroethene	**17**		1.0	0.90	ug/L			07/30/24 13:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/30/24 13:16	1
Trichloroethene	**37**		1.0	0.46	ug/L			07/30/24 13:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/30/24 13:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/30/24 13:16	1
Xylenes, Total	**15**		2.0	0.66	ug/L			07/30/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*07/30/24 13:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*07/30/24 13:16*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/30/24 13:16*	*1*

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-222106-4
Date Collected: 07/25/24 00:00
Matrix: Water
Date Received: 07/26/24 15:39

Method: SW846 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			07/29/24 21:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/29/24 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/29/24 21:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/29/24 21:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/29/24 21:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/29/24 21:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/29/24 21:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/29/24 21:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/29/24 21:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/29/24 21:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/29/24 21:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/29/24 21:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/29/24 21:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/29/24 21:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/29/24 21:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/29/24 21:02	1
2-Butanone (MEK)	ND	*+	10	1.3	ug/L			07/29/24 21:02	1
2-Hexanone	ND		5.0	1.2	ug/L			07/29/24 21:02	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/29/24 21:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/29/24 21:02	1
Acetone	ND		10	3.0	ug/L			07/29/24 21:02	1
Benzene	ND		1.0	0.41	ug/L			07/29/24 21:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/29/24 21:02	1
Bromoform	ND		1.0	0.26	ug/L			07/29/24 21:02	1
Bromomethane	ND		1.0	0.69	ug/L			07/29/24 21:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/29/24 21:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/29/24 21:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/29/24 21:02	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/24 21:02	1
Chloroform	ND		1.0	0.34	ug/L			07/29/24 21:02	1
Chloromethane	ND		1.0	0.35	ug/L			07/29/24 21:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/29/24 21:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/29/24 21:02	1
Cyclohexane	ND		1.0	0.18	ug/L			07/29/24 21:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/29/24 21:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/29/24 21:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/29/24 21:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/29/24 21:02	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/29/24 21:02	1
Methyl acetate	ND		2.5	1.3	ug/L			07/29/24 21:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/29/24 21:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/29/24 21:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/29/24 21:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/29/24 21:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/29/24 21:02	1
o-Xylene	ND		1.0	0.76	ug/L			07/29/24 21:02	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/29/24 21:02	1
Styrene	ND		1.0	0.73	ug/L			07/29/24 21:02	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/29/24 21:02	1

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-222106-4
Date Collected: 07/25/24 00:00
Matrix: Water
Date Received: 07/26/24 15:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			07/29/24 21:02	1
Toluene	ND		1.0	0.51	ug/L			07/29/24 21:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/29/24 21:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/29/24 21:02	1
Trichloroethene	ND		1.0	0.46	ug/L			07/29/24 21:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/29/24 21:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/29/24 21:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/29/24 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/29/24 21:02*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*07/29/24 21:02*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/29/24 21:02*	*1*

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-222106-1	RIMW-2	101	103	96
480-222106-2	RIMW-4	100	99	95
480-222106-3	RIMW-7R	109	100	108
480-222106-4	TRIP BLANK	99	94	91
LCS 480-719935/6	Lab Control Sample	99	102	97
LCS 480-720077/6	Lab Control Sample	108	97	109
MB 480-719935/9	Method Blank	99	99	93
MB 480-720077/8	Method Blank	108	102	108

Surrogate Legend

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

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

Lab Sample ID: MB 480-719935/9
Matrix: Water
Analysis Batch: 719935

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			07/29/24 13:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/29/24 13:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/29/24 13:25	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/29/24 13:25	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/29/24 13:25	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/29/24 13:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/29/24 13:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/29/24 13:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/29/24 13:25	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/29/24 13:25	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/29/24 13:25	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/29/24 13:25	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/29/24 13:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/29/24 13:25	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/29/24 13:25	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/29/24 13:25	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/29/24 13:25	1
2-Hexanone	ND		5.0	1.2	ug/L			07/29/24 13:25	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/29/24 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/29/24 13:25	1
Acetone	ND		10	3.0	ug/L			07/29/24 13:25	1
Benzene	ND		1.0	0.41	ug/L			07/29/24 13:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/29/24 13:25	1
Bromoform	ND		1.0	0.26	ug/L			07/29/24 13:25	1
Bromomethane	ND		1.0	0.69	ug/L			07/29/24 13:25	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/29/24 13:25	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/29/24 13:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/29/24 13:25	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/24 13:25	1
Chloroform	ND		1.0	0.34	ug/L			07/29/24 13:25	1
Chloromethane	ND		1.0	0.35	ug/L			07/29/24 13:25	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/29/24 13:25	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/29/24 13:25	1
Cyclohexane	ND		1.0	0.18	ug/L			07/29/24 13:25	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/29/24 13:25	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/29/24 13:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/29/24 13:25	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/29/24 13:25	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/29/24 13:25	1
Methyl acetate	ND		2.5	1.3	ug/L			07/29/24 13:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/29/24 13:25	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/29/24 13:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/29/24 13:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/29/24 13:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/29/24 13:25	1
o-Xylene	ND		1.0	0.76	ug/L			07/29/24 13:25	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/29/24 13:25	1
Styrene	ND		1.0	0.73	ug/L			07/29/24 13:25	1

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

Lab Sample ID: MB 480-719935/9
Matrix: Water
Analysis Batch: 719935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/29/24 13:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/29/24 13:25	1
Toluene	ND		1.0	0.51	ug/L			07/29/24 13:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/29/24 13:25	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/29/24 13:25	1
Trichloroethene	ND		1.0	0.46	ug/L			07/29/24 13:25	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/29/24 13:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/29/24 13:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/29/24 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/29/24 13:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/29/24 13:25*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/29/24 13:25*	*1*

Lab Sample ID: LCS 480-719935/6
Matrix: Water
Analysis Batch: 719935

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	24.7		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	61 - 148
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	23.6		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	79 - 122
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	56 - 134
1,2-Dibromoethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	80 - 124
1,2-Dichloroethane	25.0	23.6		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	23.5		ug/L		94	76 - 120
1,3,5-Trimethylbenzene	25.0	23.7		ug/L		95	77 - 121
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	22.4		ug/L		90	80 - 120
2-Butanone (MEK)	125	218	*+	ug/L		174	57 - 140
2-Hexanone	125	127		ug/L		102	65 - 127
4-Isopropyltoluene	25.0	23.9		ug/L		96	73 - 120
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	131		ug/L		105	56 - 142
Benzene	25.0	22.6		ug/L		91	71 - 124
Bromodichloromethane	25.0	24.0		ug/L		96	80 - 122
Bromoform	25.0	28.2		ug/L		113	61 - 132
Bromomethane	25.0	24.1		ug/L		97	55 - 144
Carbon disulfide	25.0	22.0		ug/L		88	59 - 134
Carbon tetrachloride	25.0	26.7		ug/L		107	72 - 134
Chlorobenzene	25.0	23.1		ug/L		92	80 - 120

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

Lab Sample ID: LCS 480-719935/6
Matrix: Water
Analysis Batch: 719935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	25.0	25.9		ug/L		104	69 - 136
Chloroform	25.0	21.7		ug/L		87	73 - 127
Chloromethane	25.0	24.5		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
Cyclohexane	25.0	26.4		ug/L		106	59 - 135
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	25.4		ug/L		102	59 - 135
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
Isopropylbenzene	25.0	23.7		ug/L		95	77 - 122
m,p-Xylene	25.0	23.4		ug/L		93	76 - 122
Methyl acetate	50.0	47.9		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	22.4		ug/L		90	77 - 120
Methylcyclohexane	25.0	25.2		ug/L		101	68 - 134
Methylene Chloride	25.0	22.9		ug/L		91	75 - 124
n-Butylbenzene	25.0	24.8		ug/L		99	71 - 128
N-Propylbenzene	25.0	24.2		ug/L		97	75 - 127
o-Xylene	25.0	23.7		ug/L		95	76 - 122
sec-Butylbenzene	25.0	24.3		ug/L		97	74 - 127
Styrene	25.0	23.6		ug/L		95	80 - 120
tert-Butylbenzene	25.0	23.2		ug/L		93	75 - 123
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	23.4		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	23.1		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	26.0		ug/L		104	62 - 150
Vinyl chloride	25.0	26.6		ug/L		107	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 480-720077/8
Matrix: Water
Analysis Batch: 720077

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			07/30/24 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/30/24 12:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/30/24 12:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/30/24 12:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/30/24 12:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/30/24 12:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/30/24 12:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/30/24 12:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/30/24 12:27	1

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

Lab Sample ID: MB 480-720077/8
Matrix: Water
Analysis Batch: 720077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/30/24 12:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/30/24 12:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/30/24 12:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/30/24 12:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/30/24 12:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/30/24 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/30/24 12:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/30/24 12:27	1
2-Hexanone	ND		5.0	1.2	ug/L			07/30/24 12:27	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/30/24 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/30/24 12:27	1
Acetone	ND		10	3.0	ug/L			07/30/24 12:27	1
Benzene	ND		1.0	0.41	ug/L			07/30/24 12:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/30/24 12:27	1
Bromoform	ND		1.0	0.26	ug/L			07/30/24 12:27	1
Bromomethane	ND		1.0	0.69	ug/L			07/30/24 12:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/30/24 12:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/30/24 12:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/30/24 12:27	1
Chloroethane	ND		1.0	0.32	ug/L			07/30/24 12:27	1
Chloroform	ND		1.0	0.34	ug/L			07/30/24 12:27	1
Chloromethane	ND		1.0	0.35	ug/L			07/30/24 12:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/30/24 12:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/30/24 12:27	1
Cyclohexane	ND		1.0	0.18	ug/L			07/30/24 12:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/30/24 12:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/30/24 12:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/30/24 12:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/30/24 12:27	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/30/24 12:27	1
Methyl acetate	ND		2.5	1.3	ug/L			07/30/24 12:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/30/24 12:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/30/24 12:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/30/24 12:27	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/30/24 12:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/30/24 12:27	1
o-Xylene	ND		1.0	0.76	ug/L			07/30/24 12:27	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/30/24 12:27	1
Styrene	ND		1.0	0.73	ug/L			07/30/24 12:27	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/30/24 12:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/30/24 12:27	1
Toluene	ND		1.0	0.51	ug/L			07/30/24 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/30/24 12:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/30/24 12:27	1
Trichloroethene	ND		1.0	0.46	ug/L			07/30/24 12:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/30/24 12:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/30/24 12:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/30/24 12:27	1

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

Lab Sample ID: MB 480-720077/8
Matrix: Water
Analysis Batch: 720077

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		07/30/24 12:27	1
4-Bromofluorobenzene (Surr)	102		73 - 120		07/30/24 12:27	1
Toluene-d8 (Surr)	108		80 - 120		07/30/24 12:27	1

Lab Sample ID: LCS 480-720077/6
Matrix: Water
Analysis Batch: 720077

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	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2		ug/L		109	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	25.7		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	31.3	*+	ug/L		125	79 - 122
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	32.0		ug/L		128	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	24.3		ug/L		97	76 - 120
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	77 - 121
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 120
2-Butanone (MEK)	125	142		ug/L		113	57 - 140
2-Hexanone	125	140		ug/L		112	65 - 127
4-Isopropyltoluene	25.0	25.9		ug/L		104	73 - 120
4-Methyl-2-pentanone (MIBK)	125	146		ug/L		117	71 - 125
Acetone	125	144		ug/L		115	56 - 142
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	25.0	25.7		ug/L		103	80 - 122
Bromoform	25.0	30.3		ug/L		121	61 - 132
Bromomethane	25.0	31.0		ug/L		124	55 - 144
Carbon disulfide	25.0	24.5		ug/L		98	59 - 134
Carbon tetrachloride	25.0	28.7		ug/L		115	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	30.0		ug/L		120	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	27.8		ug/L		111	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	25.0	25.6		ug/L		102	59 - 135
Dibromochloromethane	25.0	28.2		ug/L		113	75 - 125
Dichlorodifluoromethane	25.0	25.5		ug/L		102	59 - 135
Ethylbenzene	25.0	23.9		ug/L		96	77 - 123
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
m,p-Xylene	25.0	23.0		ug/L		92	76 - 122

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

Lab Sample ID: LCS 480-720077/6
Matrix: Water
Analysis Batch: 720077

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl acetate			50.0	52.0		ug/L		104	74 - 133		
Methyl tert-butyl ether			25.0	22.8		ug/L		91	77 - 120		
Methylcyclohexane			25.0	25.0		ug/L		100	68 - 134		
Methylene Chloride			25.0	24.5		ug/L		98	75 - 124		
n-Butylbenzene			25.0	27.2		ug/L		109	71 - 128		
N-Propylbenzene			25.0	25.4		ug/L		102	75 - 127		
o-Xylene			25.0	24.0		ug/L		96	76 - 122		
sec-Butylbenzene			25.0	26.1		ug/L		104	74 - 127		
Styrene			25.0	22.9		ug/L		91	80 - 120		
tert-Butylbenzene			25.0	26.1		ug/L		104	75 - 123		
Tetrachloroethene			25.0	26.4		ug/L		106	74 - 122		
Toluene			25.0	24.0		ug/L		96	80 - 122		
trans-1,2-Dichloroethene			25.0	23.6		ug/L		94	73 - 127		
trans-1,3-Dichloropropene			25.0	25.8		ug/L		103	80 - 120		
Trichloroethene			25.0	23.8		ug/L		95	74 - 123		
Trichlorofluoromethane			25.0	31.2		ug/L		125	62 - 150		
Vinyl chloride			25.0	28.2		ug/L		113	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

GC/MS VOA

Analysis Batch: 719935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222106-1	RIMW-2	Total/NA	Water	8260C	
480-222106-2	RIMW-4	Total/NA	Water	8260C	
480-222106-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-719935/9	Method Blank	Total/NA	Water	8260C	
LCS 480-719935/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 720077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222106-3	RIMW-7R	Total/NA	Water	8260C	
MB 480-720077/8	Method Blank	Total/NA	Water	8260C	
LCS 480-720077/6	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RIMW-2
Lab Sample ID: 480-222106-1
Date Collected: 07/25/24 16:25
Matrix: Water
Date Received: 07/26/24 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	719935	ERS	EET BUF	07/29/24 20:13

Client Sample ID: RIMW-4
Lab Sample ID: 480-222106-2
Date Collected: 07/25/24 14:30
Matrix: Water
Date Received: 07/26/24 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	719935	ERS	EET BUF	07/29/24 20:38

Client Sample ID: RIMW-7R
Lab Sample ID: 480-222106-3
Date Collected: 07/25/24 15:15
Matrix: Water
Date Received: 07/26/24 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	720077	ERS	EET BUF	07/30/24 13:16

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-222106-4
Date Collected: 07/25/24 00:00
Matrix: Water
Date Received: 07/26/24 15:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	719935	ERS	EET BUF	07/29/24 21:02

Laboratory References:

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

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

Method Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Roux Environmental Engineering and Geology DPC
Job ID: 480-222106-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-222106-1	RIMW-2	Water	07/25/24 16:25	07/26/24 15:39
480-222106-2	RIMW-4	Water	07/25/24 14:30	07/26/24 15:39
480-222106-3	RIMW-7R	Water	07/25/24 15:15	07/26/24 15:39
480-222106-4	TRIP BLANK	Water	07/25/24 00:00	07/26/24 15:39

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Tom Behrendt	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-198339-41014.1
Client Contact: Mr. Christopher Boron	Phone: (716) 796-4967	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Roux Environmental Engineering and Geology DPC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): STANDARD			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone: 716-856-0635(Tel)	PO #: ~~B0092-016-002~~			
Email: cboron@rouxinc.com	WO #:			
Project Name: Benchmark-791 Washington St.(Trico site)	Project #: 48013685			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + Stars	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
RIMW-2	7/25/24	1625	grab	Water			X		
RIMW-4	↓	1430	↓	Water			X		
RIMW-7R		1515		Water			X		
Trip Blank				Water					
				Water					

480-222106 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Thomas A Behrendt	7/26/24 1539	Roux		7/26/24 1539	EU
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.8 # ICE

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-222106-1

Login Number: 222106
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins 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	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX F

Well Decommissioning Logs

ROUX

WELL ABANDONMENT/ DECOMMISSIONING LOG

DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued

PROJECT/SITE NAME: Former Trico Bldg

WELL I.D.: RI-MW-1 8/22/24

Decommissioning Data (Fill in all that apply)

Overdrillling
- Interval Drilled
- Drilling Method(s)
- Borehole Diameter (in.)
- Temp. Casing Installed? (Y/N)
- Depth temp. casing installed
- Casing type/diam (in.)
- Method of Installation

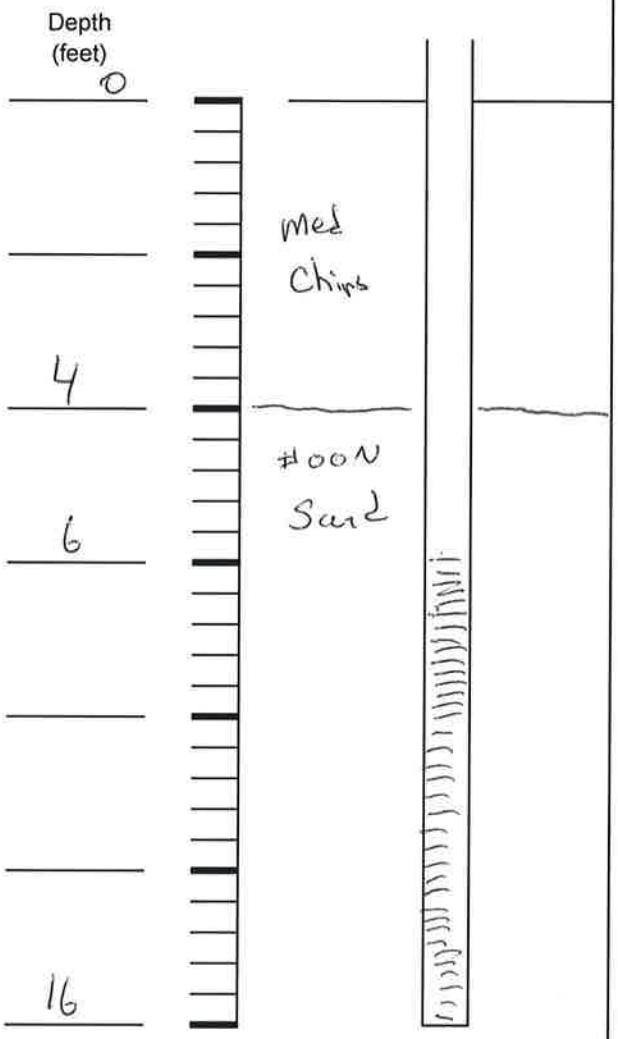
Casing Pulling
- Method employed
- Casing retrieved (feet)
- Casing type/diam. (in.)

Casing Perforating
- Equipment used
- Number of perforaitons/foot
- Size of perforations
- Interval perforated

Grouting
- Interval grouted (fbgs) 0 - 16
- No. of batches prepared 1
- For each batch record:
  - Quantity of water used (gal.) 1.5
  - Quantity of cement used (lbs.) 15 lbs
  - Cement type
  - Quantity of bentonite used (lbs.) 3
  - Quantity of calcium chloride used (lbs.) —
  - Volume of grout prepared (gal.) 2.5
  - Volume of grount used (gal.) 1.5

Comments

Well Schematic*



* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor: Roux

Department Rep.: TAB/JL

ROUX

WELL ABANDONMENT/ DECOMMISSIONING LOG

DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued

PROJECT/SITE NAME: Former Trico Bldg

WELL I.D.: RI-MW-3

Decommissioning Data (Fill in all that apply)

Overdrillling
- Interval Drilled
- Drilling Method(s)
- Borehole Diameter (in.)
- Temp. Casing Installed? (Y/N)
- Depth temp. casing installed
- Casing type/diam (in.)
- Method of Installation

Casing Pulling
- Method employed
- Casing retrieved (feet)
- Casing type/diam. (in.)

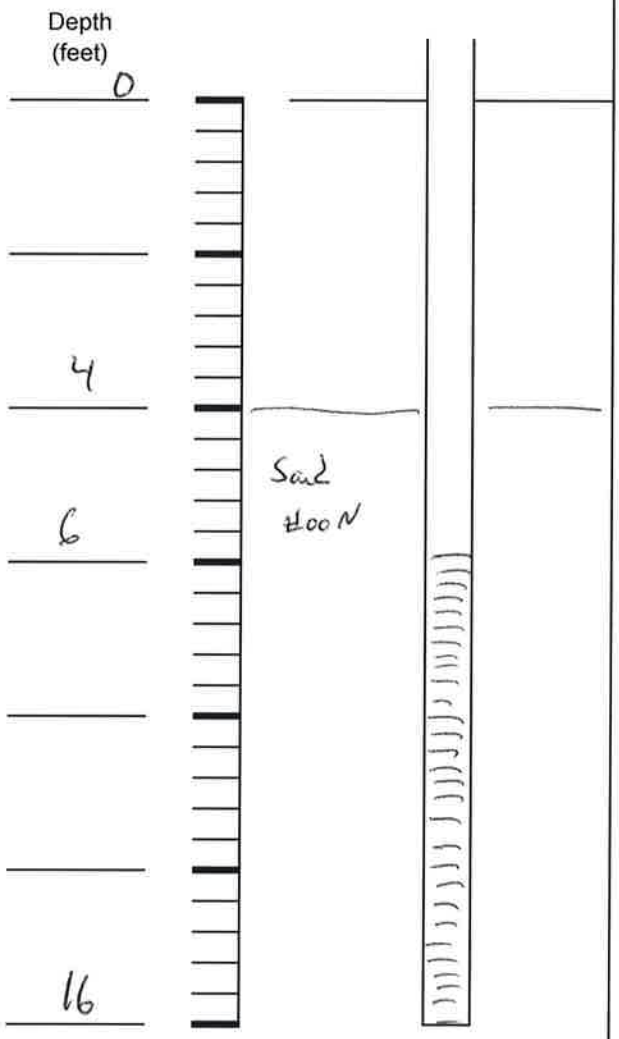
Casing Perforating
- Equipment used
- Number of perforaitons/foot
- Size of perforations
- Interval perforated

Grouting
- Interval grouted (fbgs): 16-0'
- No. of batches prepared: 1
- For each batch record:
  - Quantity of water used (gal.): 1.5 gallons
  - Quantity of cement used (lbs.): 15 lbs
  - Cement type: Portland
  - Quantity of bentonite used (lbs.): 3
  - Quantity of calcium chloride used (lbs.): —
  - Volume of grout prepared (gal.): 2.5
  - Volume of grount used (gal.): 1.5

Comments

1.5 gallons of grout used

Well Schematic*



* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor:

Department Rep.: TAB / JL 8/22/24

ROUX

WELL ABANDONMENT/ DECOMMISSIONING LOG

DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued

PROJECT/SITE NAME: Former Tesco Bldg

WELL I.D.: RI-MW-5

Decommissioning Data (Fill in all that apply)

Overdrillling
- Interval Drilled
- Drilling Method(s)
- Borehole Diameter (in.)
- Temp. Casing Installed? (Y/N)
- Depth temp. casing installed
- Casing type/diam (in.)
- Method of Installation

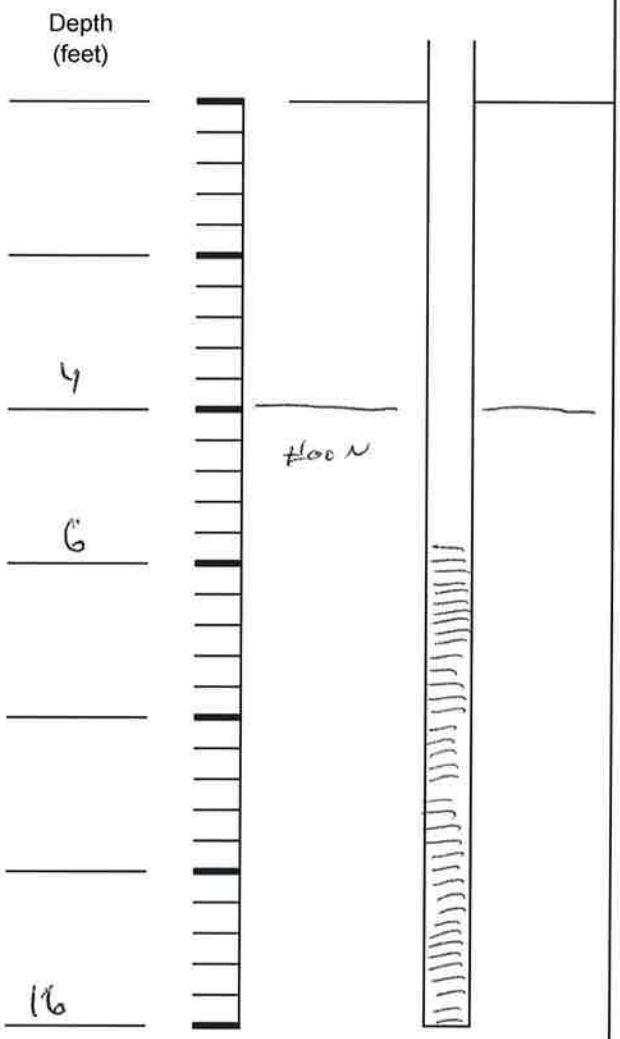
Casing Pulling
- Method employed
- Casing retrieved (feet)
- Casing type/diam. (in.)

Casing Perforating
- Equipment used
- Number of perforaitons/foot
- Size of perforations
- Interval perforated

Grouting
- Interval grouted (fbgs) 16 - 0
- No. of batches prepared 1
- For each batch record:
  - Quantity of water used (gal.) 1.5 gal
  - Quantity of cement used (lbs.) 15 lbs
  - Cement type Portland
  - Quantity of bentonite used (lbs.) 3
  - Quantity of calcium chloride used (lbs.) —
  - Volume of grout prepared (gal.) 2.5
  - Volume of grount used (gal.) 1.5

Comments

Well Schematic*



* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

1.5 gallons of grout used

Drilling Contractor: Rivers

Department Rep.: TWB/JL 8/22/24

ROUX

WELL ABANDONMENT/ DECOMMISSIONING LOG

DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued

PROJECT/SITE NAME: Former Tosco Bldg

WELL I.D.: RI-MW-6

Decommissioning Data (Fill in all that apply)

Overdrillling
- Interval Drilled
- Drilling Method(s)
- Borehole Diameter (in.)
- Temp. Casing Installed? (Y/N)
- Depth temp. casing installed
- Casing type/diam (in.)
- Method of Installation

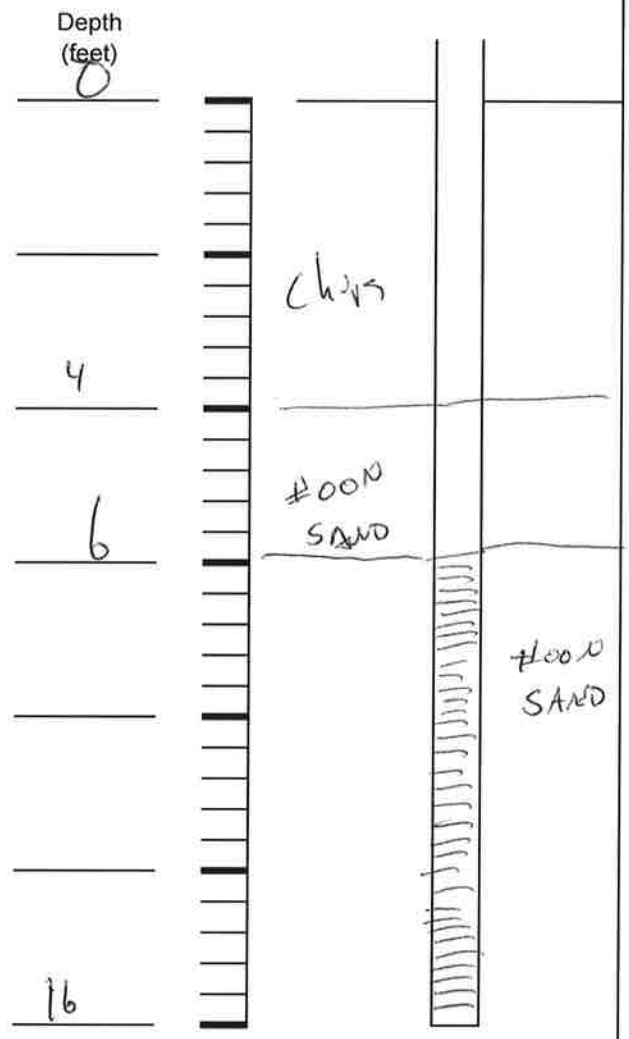
Casing Pulling
- Method employed
- Casing retrieved (feet)
- Casing type/diam. (in.)

Casing Perforating
- Equipment used
- Number of perforaitons/foot
- Size of perforations
- Interval perforated

Grouting
- Interval grouted (fbgs) 16-6'
- No. of batches prepared 2
- For each batch record:
  - Quantity of water used (gal.) 5
  - Quantity of cement used (lbs.) 25
  - Cement type Portland
  - Quantity of bentonite used (lbs.) 3
  - Quantity of calcium chloride used (lbs.) -
  - Volume of grout prepared (gal.) 3.5
  - Volume of grount used (gal.) 7.0

Comments

Well Schematic*



* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

7.0 gallons of grout used

Drilling Contractor: Roux

Department Rep.: TAB/JL 8/22/24

ROUX

WELL ABANDONMENT/ DECOMMISSIONING LOG

DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued

PROJECT/SITE NAME: Former Tesco Bldg

WELL I.D.: RI-MW-6

Decommissioning Data (Fill in all that apply)

Overdrillling
- Interval Drilled
- Drilling Method(s)
- Borehole Diameter (in.)
- Temp. Casing Installed? (Y/N)
- Depth temp. casing installed
- Casing type/diam (in.)
- Method of Installation

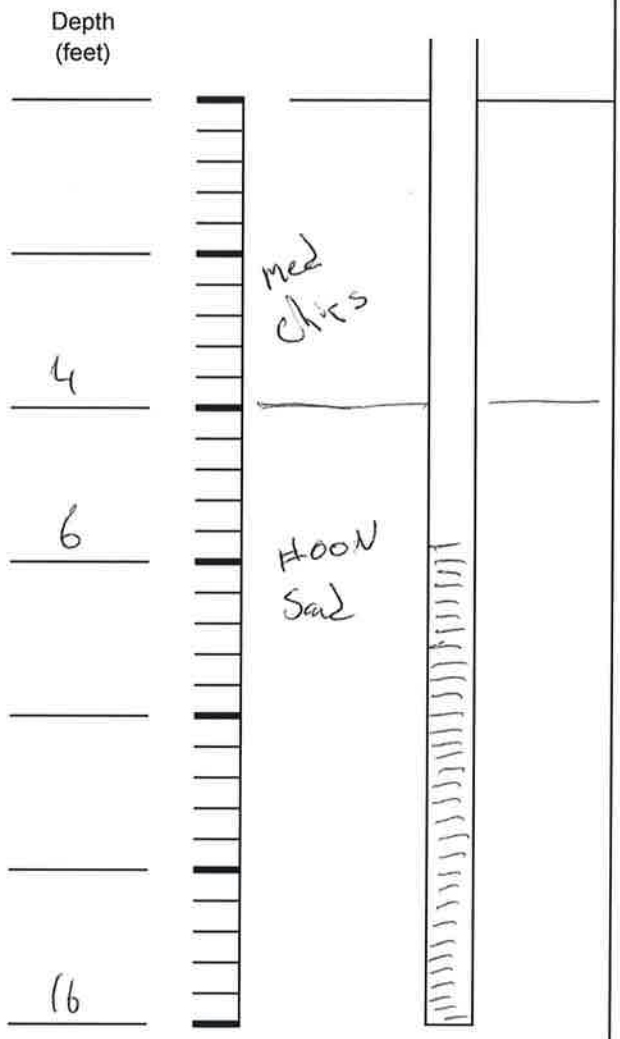
Casing Pulling
- Method employed
- Casing retrieved (feet)
- Casing type/diam. (in.)

Casing Perforating
- Equipment used
- Number of perforaitons/foot
- Size of perforations
- Interval perforated

Grouting
- Interval grouted (fbgs) 16-0
- No. of batches prepared 2
- For each batch record:
  - Quantity of water used (gal.) 5
  - Quantity of cement used (lbs.) 25
  - Cement type
  - Quantity of bentonite used (lbs.) 3
  - Quantity of calcium chloride used (lbs.) –
  - Volume of grout prepared (gal.) 3.5
  - Volume of grount used (gal.) 7.0

Comments

Well Schematic*



* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor: Roux

Department Rep.: TAB / JL