PERIODIC REVIEW REPORT

DECEMBER 26, 2019 TO APRIL 26, 2021
FORMER TRICO PLANT
(BCP SITE NO. C915281)

BUFFALO, NEW YORK

May 2021 0092-016-001

Prepared for:

845 Main Street, LLC
and
791 Washington Street, LLC

Prepared By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716)856-0599

In association with:

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716)856-0635

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Former Trico Plant (C915281)

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1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC, in association with TurnKey Environmental Restoration, LLC (Benchmark-TurnKey) 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 May 26, 2020 to May 26, 2021.

1.1 Site Background

847 Main Street, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC in October 2013, to investigate and remediate the approximate ±2.11-acre Site located at 791 Washington Street, in the City of Buffalo, Erie County, New York . The BCA was amended in January 2017 to add the entity 791 Washington Street, LLC and amended again in July 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 an approximately ±2.11-acres 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 property consists of a complex of five (5) adjoining buildings totaling 617,627 square feet. The oldest of the five 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.

1.2 Remedial History

A Remedial Investigation (RI) was completed by Benchmark-TurnKey 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) and cis-1,2-dichlorethene (cis-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.
- 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) 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.

Benchmark-TurnKey prepared an ASD System Design Work Plan 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 (Ref. 9). The ASD system will be installed prior to building occupancy.

Benchmark-TurnKey prepared an RAWP Addendum Work Plan (RAWP Addendum) on behalf of 847 Main Street, LLC and 791 Washington Street, LLC (Ref. 10).

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. 11) and Concrete-Slab Sampling Work Plan for Areas Formerly Containing Oil-Filled Electrical Equipment (Ref. 12), respectively. PCBs were identified above 1 mg/kg in a limited area of the existing concrete Site cover system (approximately 8,000 square feet, less than 10% of the total cover system, which covers approximately 84,000 square feet). The PCB impacts greater than 1 mg/kg were addressed by removal, off-site disposal, and cover system replacement.

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. 13).

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 together 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 primarily covered by a hardscape cover system in the form of the concrete building footprint and asphalt roadway of former Burton Street in the northwest corner of the Site. A 2-foot-thick crushed stone cover (2-inch crusher run) was placed in select areas of the Site (e.g., the former subbasement area and former EEAs where the concrete floors were removed due to PCB contamination). Exposure to remaining contamination in the soil/fill at the Site is prevented by the hardscape cover system and/or 2-foot-thick stone cover system in place over the Site. Figure 3 identities the current cover system for the Site. In accordance with the NYSDEC-approved Site Management Plan (SMP; Ref. 14) the following remedial actions need to be completed prior to building occupancy.

- Removal of PCB contamination greater than 50 mg/kg in the suspended concrete slab on the 1st of the building (future parking area) and installation of a 6-inch concrete cap over areas with less 50 mg/kg PCBs;
- Installation of the ASD system within the building in accordance with the ASD System Work Plan; and
- 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.

The remedial action and cover system installation work was documented in the NYSDEC-approved FER.

1.3 Compliance

The Site is in compliance as the cover system is in place.

1.4 Recommendations

Any future redevelopment activities to be conducted will be completed in accordance with the NYSDEC-approved SMP and documented in the associated PRR reporting period. The SMP will be updated to include the redevelopment/cover system changes once they are completed.

2.0 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 and maintenance of the ASD system, which will be installed prior to occupancy, and procedures for post-remedial excavation, demolition, and related activities.

No significant redevelopment activities have occurred at the Site within the December 26, 2019 to April 26, 2021 reporting period. The Site is currently vacant and secured from public access by a 6-foot chain link fence. Some building demolition debris was generated (concrete, brick, and limestone foundation walls) was generated as part of redevelopment activities after the COC was issued and prior to the COVID-19 pandemic which halted the project. The Site was secured with perimeter fencing and is visited weekly to inspect the premises for vandals, trespassers, and maintain the perimeter fencing. The project team is currently assessing the project financing to restart the redevelopment in late 2021.

The areas surrounding the Site have not changed.

3.0 REMEDY PERFORMANCE

A post-remedial site inspection and two (2) groundwater monitoring events (July 2020 and November 2020) were completed at the Site as required by the SMP during this reporting period. 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 events involved sample collection for VOC analysis, as further discussed in Sections 4.2.4 and 4.3.

The Site is current vacant and secured from public access by a chain link fence. The Site is in compliance and functioning as intended in accordance with the SMP.

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.

4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the Site and approved by the Department in December 2019. 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 and engineering control requirements.

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 use;
- The future parking area on the 1st floor will be restricted to use as a low occupancy area as defined in 40 CFR 761.3 prior to occupancy;
- 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 noted on Figure 3, 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, concrete building slabs, and 2-feet of crushed stone underlain by a demarcation layer (former sub-basement area and three (3) former oil-filled electrical equipment areas). The cover system must be maintained in compliance with the SMP.
- Suspended Concrete Slab Cap – A concrete cap consisting of a minimum of 6-inches of concrete will be installed over the PCB-impacted suspended concrete slab in the future parking area prior to occupancy to prevent exposure to residual PCB-impacts in the suspended slab on the 1st floor. The cap must be maintained in compliance with the SMP.
- Active Sub-Slab Depressurization System – An ASD system will be installed at the Site prior to building occupancy. The ASD system will be installed as outlined in the NYSDEC-approved ASD System Design Work Plan included as Appendix L of the SMP. NYSDEC will be notified prior to the start of

work activities related to the ASD system installation. Once installed, the ASD system must be operated and maintained in compliance with the Operation and Maintenance Plan, included in the SMP.

- The interior parking areas of the building, basement, and southwestern portion of the 1st floor will be outfitted with a dedicated ventilation system. The system will remove vapors/fumes associated with vehicle traffic generated inside the building and bring in outdoor ambient air. The ventilation system will be operated and maintained in accordance with the manufacturer's specifications while the interior areas are utilized for parking. Although considered an EC, this is not a remedial element under the BCP.

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 actives. Future intrusive work that will penetrate the cover and/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

No significant redevelopment activities occurred during the past reporting period and the Site is currently vacant and secured by a chain-link fence.

Building debris was generated during the reporting period prior to the COVID-19 pandemic. The building debris remains on-site and was sampled by Benchmark-TurnKey, in accordance with the SMP, for off-site recycling. The data was sent to NYSDEC on March 17, 2020 and approved by NYSDEC for off-site recycling on March 20, 2020. The analytical data and correspondence are included in Appendix C. The material will be addressed once Site redevelopment activities resume.

4.2.2 Exported Materials

No materials were exported from the Site during the past reporting period.

4.2.3 Imported Materials

No materials were imported to the Site during the past reporting period.

4.3 Post-Remediation Media Monitoring and Sampling

Five (5) accessible on-site monitoring wells (RIMW-2, RIMW-4, RIMW-6, RIMW-9, and RIMW-10) and two (2) off-site monitoring wells (RIMW-11 and RIMW-12) were sampled in July 2020. In November 2020, only the five (5) accessible on-site monitoring wells were samples as RIMW-11 and RIMW-12 were removed from the SMP sampling program with NYSDEC permission (see correspondence in Appendix D) RIMW-7 was not sampled during either 2020 events due to the presence of building debris over the well location. RIMW-7 will be sampled during future events once this debris has been moved. The groundwater was sampled for Target Compound List (TCL) VOCs during both sampling events. The results of the groundwater sampling are summarized on Table 1 and Figure 5, and the laboratory reports are included in Appendix D. Table 1 includes the historic sample results from 2016 for MW-1 through MW-12, which represent pre-remedial conditions, and from 2019 for MWRI-2, RIMW-4, RIMW-6, RIMW-7, RIMW-9, RIMW-10, RIMW-11, and RIMW-12, which represent conditions immediately following groundwater injections, for comparative purposes. The results of the sampling are discussed below by location.

RIMW-2: TCE was the only compound detected above its respective above its GWQS prior to remedial actions (11 ug/L) and has shown an approximate 44% decrease based on the average concentrations (6.1 ug/L) of the five (5) sample rounds completed since the remedial injections which have fluctuated from 4.8 to 7.8 ug/l.

RIMW-4: cVOCs (cis-DCE, TCE, trans-DCE and VC) were detected above their respective GWQS. The total concentration of cVOCS prior to the remedial injections was 425 ug/L. The post-injection monitoring have generally shown a downward trend in total cVOC concentrations. The November 2020 results were 105 ug/L which is a 75% decrease in the total cVOC concentrations. Benzene was detected above its GWQS immediately after

groundwater injections at concentrations up to 32 ug/L but has been non-detect in the subsequent four (4) sampling events.

RIMW-6: No VOCs were detected above GWQS before or after remedial actions.

RIMW-7: This well was not sampled in 2020 due to demolition debris present over the well location. Four (4) cVOCs were detected above their respective GWQS in the last sample event in September 2019 (cis-DCE, trans-DCE, TCE, and VC). The total cVOC concentrations at this monitoring well, has not yet shown a decrease in concentration since the injections were completed. The total cVOCs concentrations pre-injection were 225.5 ug/l and the total cVOC concentrations from September 2019 were 253 ug/l.

RIMW-9: There were no exceedances of the GWQS for the 3rd straight sampling event (September 2019, July 2020 and November 202) at this location.

RIMW-10: No VOCs were detected above GWQS before or after remedial actions.

RIMW-11: No parameters were detected above GWQS before or after remedial actions. RIMW-11 was not sampled during the November 2020 sampling event and will not be sampled during future monitoring events, per NYSDEC approval. See NYSDEC correspondence in Appendix D.

RIMW-12: No parameters were detected above GWQS before or after remedial actions. RIMW-12 was not sampled during the November 2020 sampling event and will not be sampled during future monitoring events, per NYSDEC approval. See NYSDEC correspondence in Appendix D.

The results of the 2020 post-remediation groundwater sampling indicate there has been improvement in the groundwater quality at the Site since the remedial action have been completed. Groundwater monitoring will continue to be completed as required by the SMP.

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 TurnKey Environmental Restoration, LLC, a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12, on May 7, 2021. At the time of the inspection, no redevelopment activities were occurring, and the Site was vacant. The cover system was in place and functioning as designed. Any future redevelopment activities that disturb the existing cover system are subject to the NYSDEC-approved SMP.

As discussed in Section 4.2.1, building demolition debris is present on top of the cover system. This material, generated prior to the COVID-19 pandemic, has been approved by NYSDEC for off-site recycling and will be addressed when redevelopment activities restart at the Site (see Appendix D).

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

4.5 Operation, Monitoring and Maintenance Plan

4.5.1 Active Sub-slab Depressurization System

An ASD system will be installed within the building prior to occupancy. The ASD System will be installed in accordance with the NYSDEC-approved ASD System Design Work Plan on a design-build approach that will allow the ASD system to be built using performance-based testing during the installation. The NYSDEC-approved SMP will be revised after the ASD system is installed to add required information and the Operation and Maintenance Manual will be provided in Appendix J of the SMP. As required by the

Department-approved SMP, once installed and in operation, the ASD system must: (1) be operated continuously to maintain a negative pressure (below ambient atmospheric) under the floor slab; (2) be visually inspected periodically to verify proper operation; and (3) annually inspected and certified that the system is performing properly and remains an effective engineering control (EC).

4.5.2 Ventilation System

Although not a remedial element under the BCP, a dedicated ventilation system will be installed within the interior parking areas of the building, basement, and southwestern portion of the first floor. The ventilation system will be installed, operated, and maintained to meet design air change criteria.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions for this reporting period and recommendations for the next reporting period are as follows:

- No significant redevelopment activities occurred during the past reporting period and the Site is currently vacant. The existing cover systems are intact and are performing as intended.
- Future redevelopment activities involving cover system modification or import/export of soil or stone materials will be subject to the SMP. In areas subject to redevelopment, Site access will be restricted via construction fencing and will be limited to authorized construction personnel.
- Groundwater sampling performed during the reporting period, as required by the SMP, indicates that there has been some improvement in the groundwater quality at the Site since remedial actions have been completed. Off-Site monitoring wells, MW-11 and MW-12 were approved by NYSDEC to be removed from the sampling program. Groundwater sampling will be continued as outlined in the SMP, except for off-site well modification.

6.0 DECLARATION/LIMITATION

Personnel under direct supervision of Benchmark-TurnKey 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 Benchmark-TurnKey.

This report has been prepared for the exclusive use of the 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 Benchmark-TurnKey.

7.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.
2. TurnKey Environmental Restoration, LLC. *Remedial Investigation & Alternatives Analysis Work Plan, Former Trico Plant, 791 Washington Street, Buffalo, New York.* August 2013, Revised October 2013.
3. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis (RI/AA) Report. Former Trico Plant, BCP Site No. C915281, Buffalo, New York.* January 2017.
4. New York State Department of Environmental Conservation Division of Environmental Remediation. *6 NYCRR Part 375 Environmental Remediation Programs.* December 2006.
5. New York State Department of Environmental Conservation Division of Water Technical and Operation Guidance. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.* June 1998.
6. New York State Department of Health. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York.* October 2006 (and subsequent updates).
7. New York State Department of Environmental Conservation Division of Environmental Remediation. *Decision Document, Former Trico Plant, Brownfield Cleanup Program, Buffalo, Erie County, Site No. C915281.* July 2017.
8. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Remedial Action Work Plan, Former Trico Plant, BCP Site No. 915281, Buffalo, New York.* July 2017.
9. Benchmark Environmental Engineering & Science, PLLC. *ASD System Design Work Plan, Former Trico Plant, 791 Washington Street, Buffalo, New York.* November 2017.
10. Benchmark Environmental Engineering & Science, PLLC. *Remedial Action Work Plan Addendum, Former Trico Plant, BCP Site C915281.* December 2019.
11. Benchmark Environmental Engineering & Science, PLLC. *Loading Dock Concrete & Soil Sampling Work Plan, Former Trico Plant (BCP Site No. C9152811).* November 18, 2019.
12. Benchmark Environmental Engineering & Science, PLLC. *Concrete-Slab Sampling Work Plan for Areas Formerly Containing Oil-filled Electrical Equipment, Former Trico Plant (BCP Site No. C915281).* November 2019.
13. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Final Engineering Report, Former Trico Plant, BCP Site No. C915281, Buffalo, New York.* December 2019.

14. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Site Management Plan, Former Trico Plant, NYSDEC Site Number: C915281, Buffalo, New York*. December 2019.

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER MONITORING
FORMER TRICO PLANT
BUFFALO, NEW YORK

TURNKEY ENVIRONMENTAL RESTORATION, LLC

PARAMETER [1]	GWQS [2]	RI MW-1	RI MW-2						RI MW-3	RI MW-4						RI MW-5	RI MW-6						RI MW-7						RI MW-8
		06/14/16	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	06/14/16	06/14/16	07/01/19	08/09/19	09/14/19	07/21/20	11/20/20	06/14/16	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20	06/14/16
Volatile Organic Compounds (VOCs) - ug/L																													
1,1-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57 J	ND	ND	Was Not Sampled Due to Bldg Debris Over Well	Was Not Sampled Due to Bldg Debris Over Well	ND
2-Butanone (MEK)	**50**	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	12 J	ND			ND
Acetone	**50**	ND	44	ND	5.8 J	ND	ND	ND	3 J	3.2 J	ND	12	12	8.8 J	13 J	ND	3.8 J	ND	4.4 J	ND	ND	ND	14	ND	6.8 J	ND			4.3 J
Benzene	**1**	ND	ND	1.0	ND	ND	ND	ND	0.73 J	ND	**32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
Carbon disulfide	**120**	ND	0.96 J	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	0.98 J	3	ND	ND	0.38 J	ND	ND	ND	ND	ND	0.42 J	0.33	ND	ND			ND
Chlorobenzene	**5**	ND	ND	ND	ND	ND	ND	ND	0.93 J	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	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			ND
cis-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	**140**	**110**	ND	**120**	**180**	**34**	ND	1.9	2.2	3.1	2.8	3.6	3.5	**36 F1**	**45**	**40**	**39**			ND
Cyclohexane	**--**	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	**--**	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			ND
Methyl tert butyl ether (MTBE)	**10**	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7 J	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	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	0.54 J	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	0.53 J	ND	ND			ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	**200**	**160**	ND	**89**	**230 D**	**54**	ND	1.3	1.5	2.2	ND	1.8 J	ND	**100 J**	**110 D**	**110**	**100**			ND
Trichloroethene	**5**	ND	**11**	4.4	**6.1**	**5.3**	**6.8**	**7.8**	ND	**82**	**78**	1.3	**32**	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	**89 J**	**110 D**	**100**	**100**			ND
Vinyl chloride	**2**	ND	ND	ND	ND	ND	ND	ND	ND	**2.1**	**8.7**	ND	**9.3**	**73**	**17**	ND	ND	ND	ND	ND	ND	ND	ND	**15**	**12**	**14**			ND
Total cVOCs	**--**	0	11	4.4	6.1	5.3	6.8	7.8	0	424.7 J	356.7	1.3	250.3	484.1	105	0	3.2	3.7	5.3	2.8	5.4 J	3.5	225.54	280.57	262	253			0
Total VOCs	**--**	0.64	55.96	5.4	22.9	5.3	6.8	7.8	4.66	429.9 J	391.4	27.86	263.28	495.9	120.1	0	7.38	3.7	19.7	2.8	5.4 J	3.5	239.96	281.43	280.8 J	253			4.3
Field Measurements (Units as Indicated)																													
pH (units)	**6.5 - 8.5**	7.6	7.2	NA	7.39	7.33	7.3	7.04	7.5	7.5	NA	7.08	6.9	7.07	7.17	7.8	7.4	NA	7.74	7.53	7.55	7.49	7.2	NA	6.72	6.63	NS	NS	7.5
Temperature (oC)	**--**	11.3	8.9	NA	12.5	12.4	13.1	11.8	9.5	9.5	NA	12.9	13.7	15.5	11.7	10.2	9.4	NA	14.7	13.2	12.2	11.6	9.5	NA	12.3	12.2	NS	NS	9.8
Specific Conductance (uS)	**--**	1340	5180	NA	5199	5093	6784	5412	4762	3870	NA	3776	3889	3741	5831	3282	2350	NA	1643	2038	1914	2048	1793	NA	1797	1960	NS	NS	2184
Turbidity	**--**	>1000	131	NA	85.2	111	60.5	34.4	>1000	>1000	NA	>1000	>1000	>1000	>1000	>1000	47.9	NA	352	92.8	143	109	113	NA	57.3	15.4	NS	NS	172
DO (ppm)	**--**	2.61	5.24	NA	1.3	4.05	1.48	1.91	4.34	2.75	NA	2.01	1.11	1.48	3.15	3.44	4.98	NA	2.82	2.35	1.71	1.95	5.34	NA	0.46	1.33	NS	NS	3.66
ORP (mV)	**--**	-25	-248	NA	-63	-163	196	190	41	-58	NA	-200	-280	-125	-76	-34	-209	NA	-152	-106	-111	-57	-70	NA	-251	-245	NS	NS	-204

PARAMETER [1]	GWQS [2]	RI MW-9									RI MW-10								RI MW-11 [3]						RI MW-12 [3]					
		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	06/14/16	/14/2016 DUP	7/1/19	8/9/19	9/919	7/21/20	11/20/20	11/28/16	7/1/19	8/9/19	9/13/19	7/21/20	11/20/20	11/28/16	7/1/19	8/9/19	9/13/19	7/21/20	11/20/20
Volatile Organic Compounds (VOCs) - ug/L																													
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	NLS	ND	ND	ND	ND	ND	NLS
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	11	23	4.1 J	ND	ND	2.4 J	ND	9.6 J	ND	ND	ND	ND	ND	8.6 J	ND	ND	NLS	ND	ND	8.1 J	ND	ND	NLS
Acetone	**50**	16 J	6.7	5.8	ND	ND	5.5 J	20	26	28 J	20	19	ND	4.6 J	ND	ND	ND	3 J	ND	5.2 J	ND	ND	NLS	8.5	ND	6.6 J	ND	ND	NLS
Benzene	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.54	ND	ND	0.7	ND	NLS	0.34 J	ND	0.42 J	ND	ND	NLS
Carbon disulfide	**120**	1.4 J	ND	ND	ND	0.23 J	0.22 J	ND	1.5	ND	1.9	1.9	ND	ND	ND	ND	ND	ND	0.27 J	0.65 J	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Chlorobenzene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Chloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Chloroform	**7**	ND	ND	ND	ND	0.99 J	ND	ND	ND	ND	ND	ND	0.45 J	0.65 J	0.4 J	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
cis-1,2-Dichloroethene	**5**	1.8 J	3.1	2.2 J	ND	ND	ND	ND	2.8	4.1	ND	ND	ND	ND	ND	ND	ND	2.8	1.1	1.4	2.7	2.2	NLS	ND	ND	2.5	1.6 F2	ND	NLS
Cyclohexane	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	0.28 J	ND	ND	ND	ND	NLS
Methylcyclohexane	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Methyl tert butyl ether (MTBE)	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.93 J	NLS	ND	ND	ND	ND	ND	NLS
Styrene	**5**	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
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	NLS	ND	ND	ND	ND	ND	NLS
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	NLS	ND	ND	ND	ND	ND	NLS
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Trichloroethene	**5**	**7**	1	0.74	0.45 J	**11**	**7.8**	4.2	3.7	ND	2.5	2.8	1.9	2.4	3.4	2	3.2	ND	ND	ND	ND	ND	NLS	0.33 J	ND	1.1	ND	ND	NLS
Vinyl chloride	**2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NLS	ND	ND	ND	ND	ND	NLS
Total cVOCs	**--**	4208.8	12.6	10.14	5.35	11.71	8.18	5.2	7.18 J	4.1 J	2.5	2.8	1.9	2.4	3.4	2	3.2	2.8	1.1	1.4	2.7	2.2	NLS	0.61	0	3.6	1.6	ND	NLS
Total VOCs	**--**	4229.5	19.3	15.94	5.35	12.93	24.9	48.2	38.78 J	32.1 J	24.4	26.1	2.35	17.25	3.8	2.43 J	3.2 J	6.34	1.37	15.85	3.4	3.13 J	NLS	9.45	0	18.72	1.6	ND	NLS
Field Measurements (Units as Indicated)																													
pH (units)	**6.5 - 8.5**	7.2	7.36	7.36	7.27	NA	6.49	6.99	7.24	7.44	7.1	7.1	NA	7.47	7.47	7.44	7.38	7.46	NA	7.4	7.5	7.44	NLS	7.53	NA	7.43	7.44	7.41	NLS
Temperature (oC)	**--**	10.5	10.1	10.1	10.8	NA	12.8	13	16	13.4	10.4	10.4	NA	13.6	13.6	13	12.6	8.4	NA	14.3	15.1	18.1	NLS	7.6	NA	14	16.5	15.4	NLS
Specific Conductance (uS)	**--**	1293	2503	2503	2407	NA	1568	2280	1840	1472	1016	1016	NA	1038	1043	1262	1193	2507	NA	2029	1976	2002	NLS	3502	NA	6191	6145	6106	NLS
Turbidity	**--**	122	10	10	25.8	NA	57	422	401	92	41	41	NA	6.22	25.7	34.5	32.9	21.7	NA	43.1	73.1	69.6	NLS	14.1	NA	56.4	152	43	NLS
DO (ppm)	**--**	8.48	1.99	1.99	3.26	NA	0.96	0.67	0.91	1.39	7.39	7.39	NA	1.19	4.89	1.1	2.07	2.29	NA	1.54	1.63	0.49	NLS	4.62	NA	1.46	2.03	1.69	NLS
ORP (mV)	**--**	47	-88	-88	-12	NA	-135	-208	-174	-92	167	167	NA	-89	127	176	181	-92	NA	-230	-126	-143	NLS	-96	NA	-122	-85	-85	NLS

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. GWQS Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)
3. Monitoring wells MW-11 and MW-12 no longer require monitoring per SMP Pg. 15 Section 3.2.3, 2nd bullet and NYSDEC e-mail acknowledgment on 11/16/20.

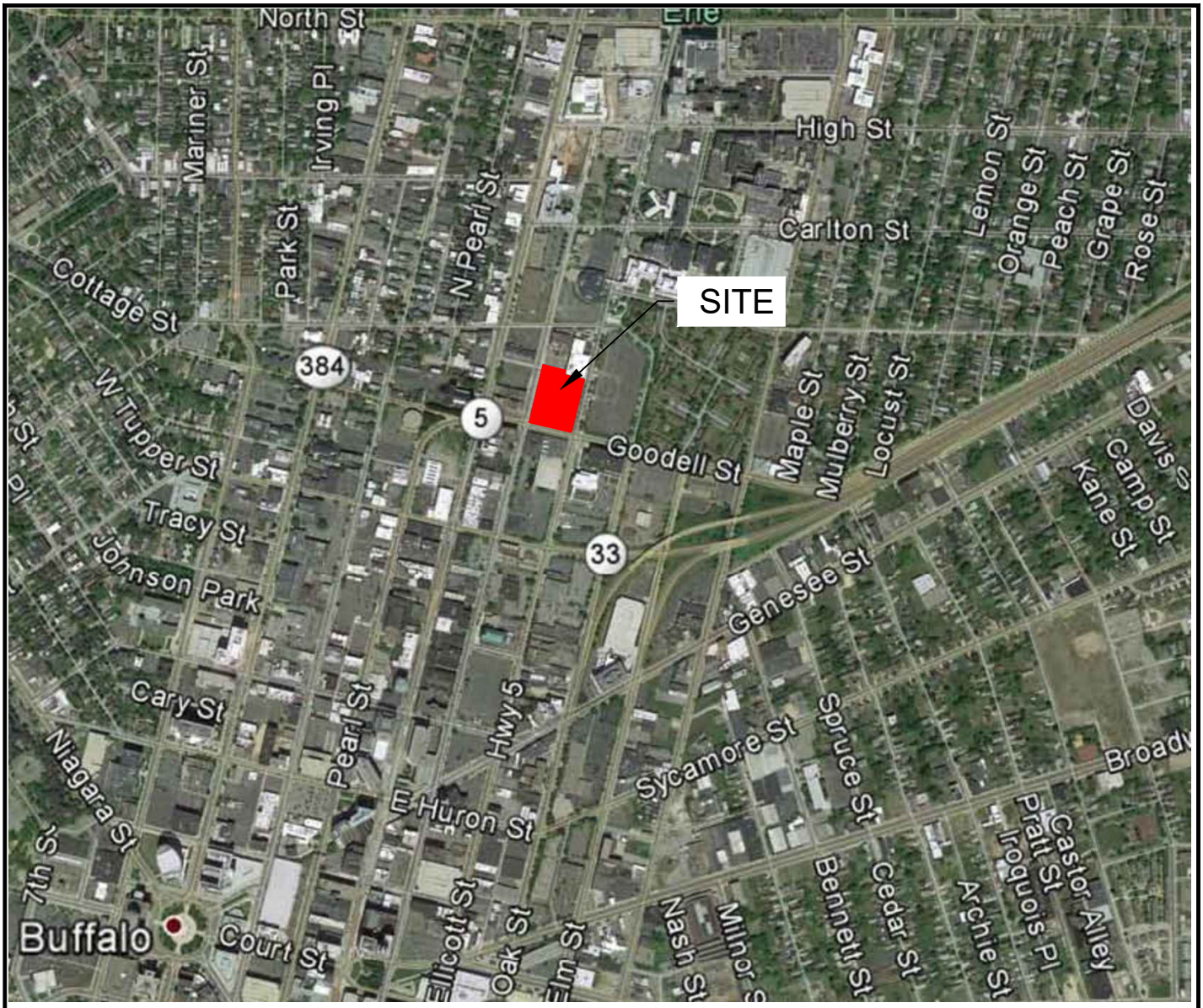
Definitions:

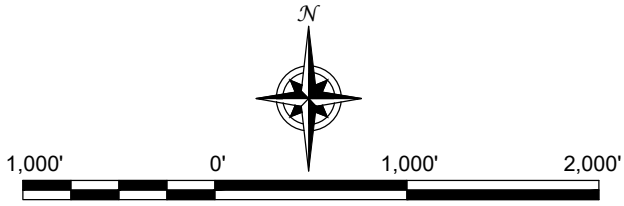
GWQS - Groundwater Quality Standard
ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter; Parameter not analysed for.
NLS = No Longer Sampled per NYSDEC approval. .
B = Compound was found in the blank and the sample.
F1 = MS and/or MSD Recovery is 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.
= Monitoring well location not included in the Site Management Plan monitoring program.

FIGURES

F:\CAD\TurnKey\Krog\Former Trico Building BCP\Periodic Review Reports\2021\Figure 1; Site Location and Vicinity Map.dwg, 5/5/2021 1:53:50 PM

FIGURE 1





SCALE: 1 INCH = 1,000 FEET
SCALE IN FEET
(approximate)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0092-016-001

DATE: MAY 2021

DRAFTED BY: RFL

SITE LOCATION AND VICINITY MAP

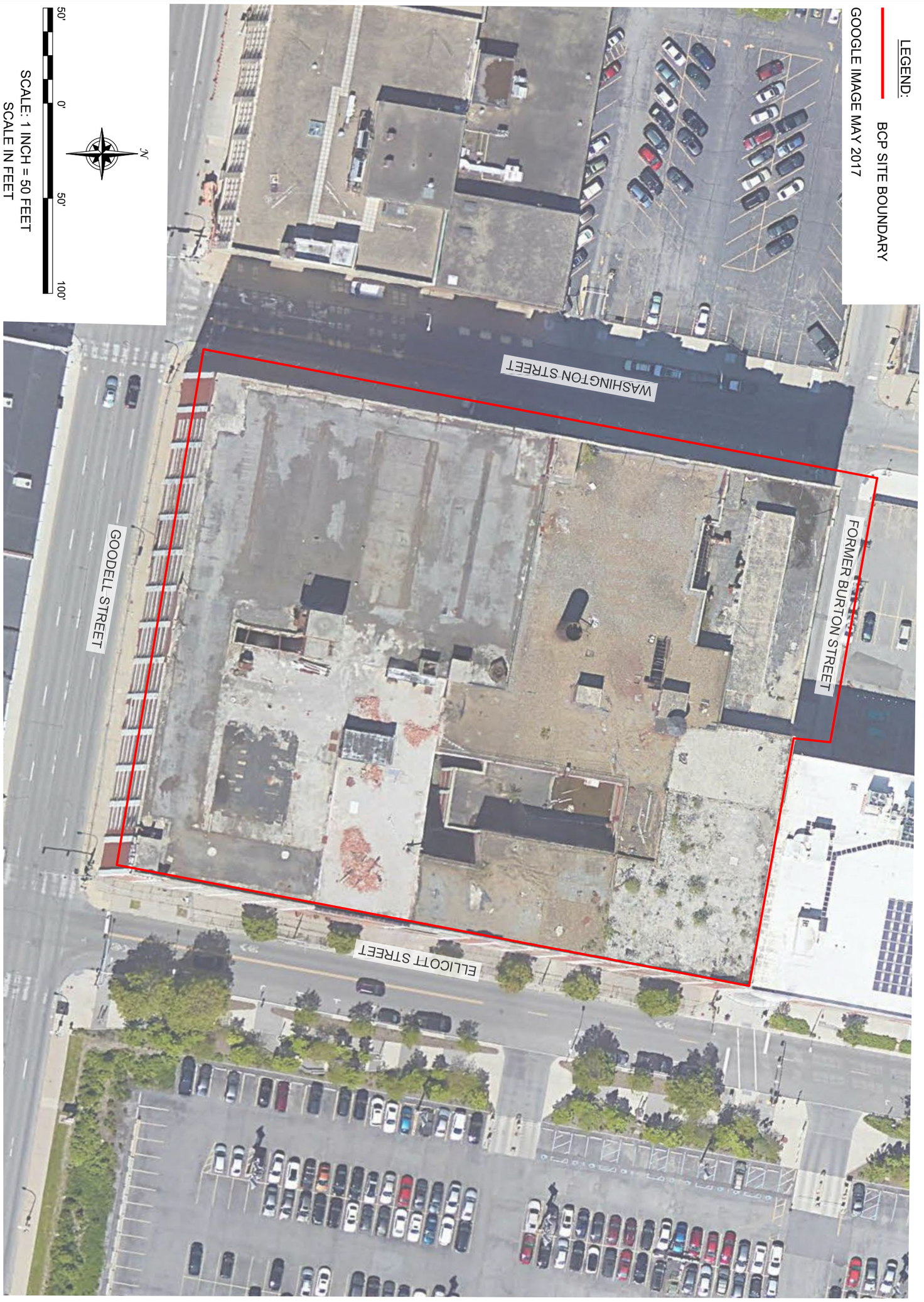
PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915281)
791 WASHINGTON STREET
BUFFALO, NEW YORK

PREPARED FOR

847 MAIN STREET, LLC & 791 WASHINGTON STREET, LLC

DATE: MAY 2021
DRAFTED BY: RFL



SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915281)
791 WASHINGTON STREET
BUFFALO, NEW YORK

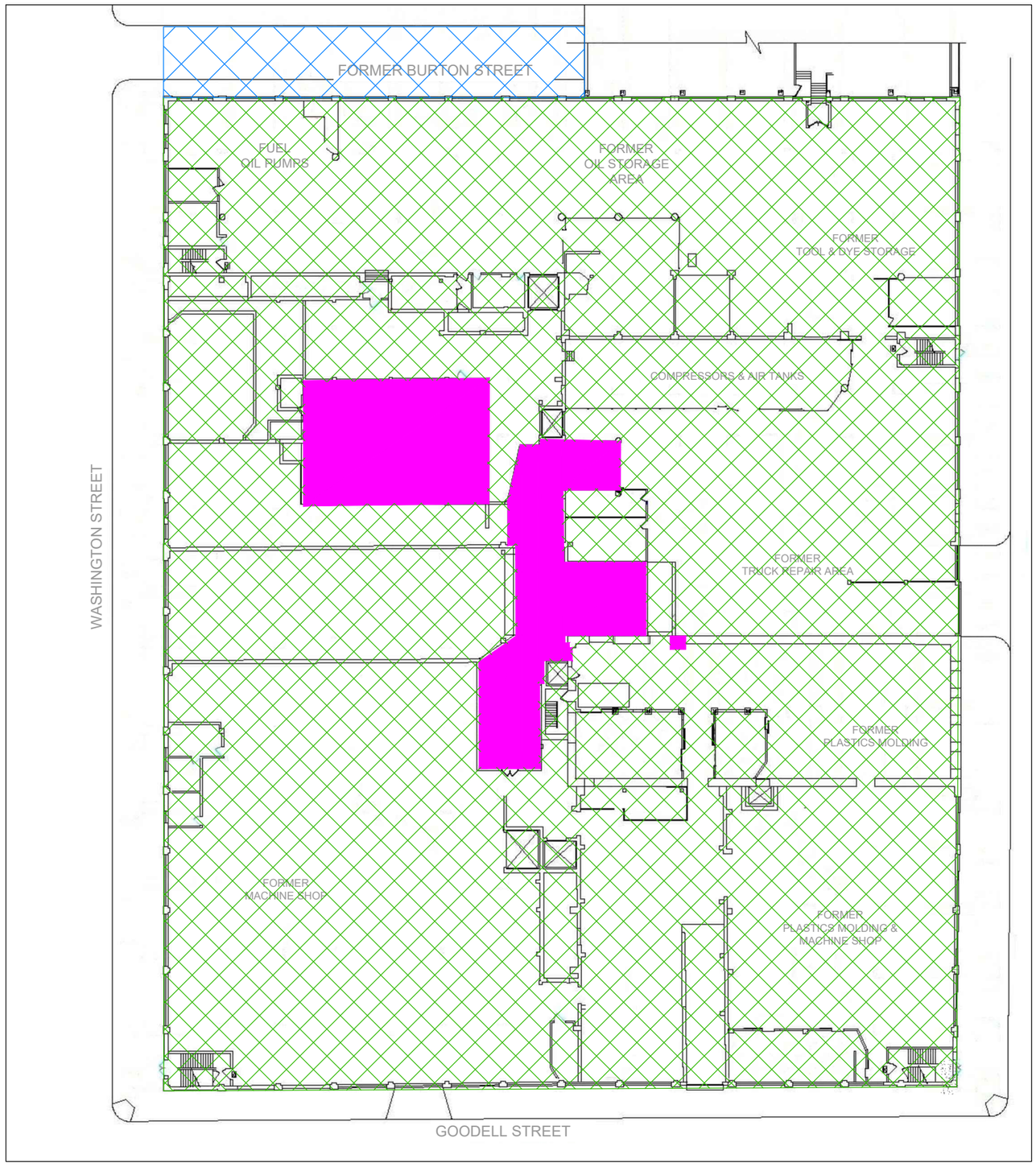
PREPARED FOR

847 MAIN STREET, LLC & 791 WASHINGTON STREET, LLC

FIGURE 2

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0092-016-001



LEGEND:

- CONCRETE COVER SYSTEM
- ASPHALT COVER SYSTEM
- 2-FOOT CRUSHED STONE COVER SYSTEM

N

40' 0' 40' 80'

SCALE: 1 INCH = 40 FEET
SCALE IN FEET
(approximate)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0092-016-001

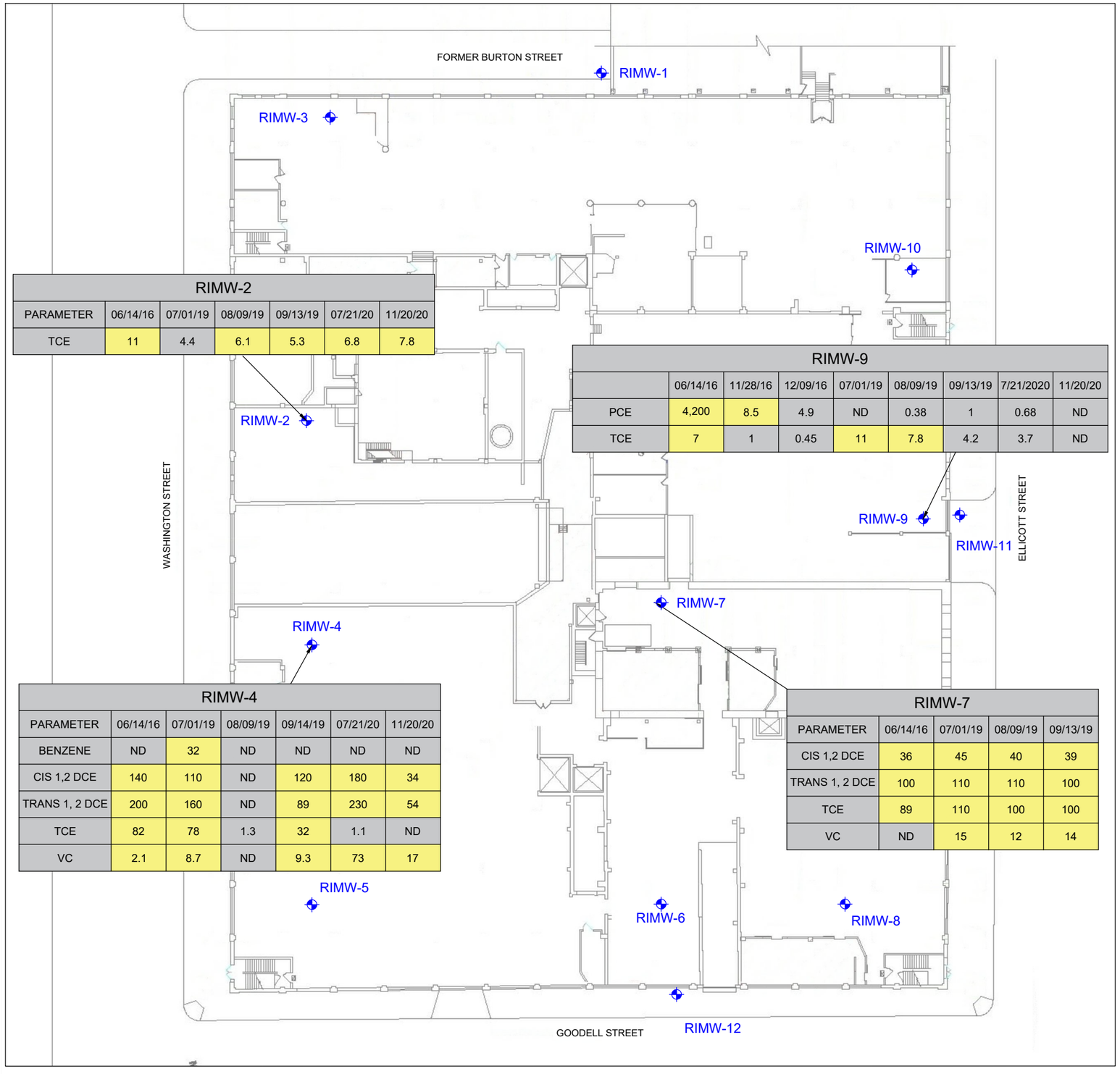
SITE COVER SYSTEM MAP

SITE MANAGEMENT PLAN
FORMER TRICO PLANT (BCP SITE NO. C915281)
791 WASHINGTON STREET
BUFFALO, NEW YORK
PREPARED FOR
847 MAIN STREET, LLC & 791 WASHINGTON STREET, LLC

FIGURE 3

DATE: MAY 2021
DRAFTED BY: RFL

F:\CAD\TurnKey\Krog\Former Trico Building BCP\Periodic Review Reports\2021\Figure 3 Site Cover System Map.dwg, 5/5/2021 1:54:27 PM



RIMW-2						
PARAMETER	06/14/16	07/01/19	08/09/19	09/13/19	07/21/20	11/20/20
TCE	11	4.4	6.1	5.3	6.8	7.8

RIMW-9								
	06/14/16	11/28/16	12/09/16	07/01/19	08/09/19	09/13/19	7/21/2020	11/20/20
PCE	4,200	8.5	4.9	ND	0.38	1	0.68	ND
TCE	7	1	0.45	11	7.8	4.2	3.7	ND

RIMW-4						
PARAMETER	06/14/16	07/01/19	08/09/19	09/14/19	07/21/20	11/20/20
BENZENE	ND	32	ND	ND	ND	ND
CIS 1,2 DCE	140	110	ND	120	180	34
TRANS 1, 2 DCE	200	160	ND	89	230	54
TCE	82	78	1.3	32	1.1	ND
VC	2.1	8.7	ND	9.3	73	17

RIMW-7				
PARAMETER	06/14/16	07/01/19	08/09/19	09/13/19
CIS 1,2 DCE	36	45	40	39
TRANS 1, 2 DCE	100	110	110	100
TCE	89	110	100	100
VC	ND	15	12	14

LEGEND:

RIMW-2 MONITORING WELL LOCATION

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

NOTES:
1. RESULTS COMPARED TO TOGS 1.1.1 GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES (GWQS/GV).

   = EXCEEDS GWQS/GV

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

N

40' 0' 40' 80'

SCALE: 1 INCH = 40 FEET
SCALE IN FEET
(approximate)

DATE: MAY 2021
DRAFTED BY: RFL-CMC

F:\CAD\TurnKey\Krog\Former Trico Building BCP\Periodic Review Reports\2021\Figure 4, Post Remedial Sampling Locations and Groundwater Quality Exceedances.dwg, 5/18/2021 4:51:01 PM

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0092-016-001

POST REMEDIAL SAMPLING LOCATIONS AND CVOC GROUNDWATER QUALITY EXCEEDANCES

PERIODIC REVIEW REPORT

FORMER TRICO PLANT (BCP SITE NO. C915281)
791 WASHINGTON STREET
BUFFALO, NEW YORK

PREPARED FOR

847 MAIN STREET, LLC & 791 WASHINGTON STREET, LLC

FIGURE 4

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORMS

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: 791 Washington Street Zip Code: 14203
City/Town: Buffalo
County: Erie
Site Acreage: 2.110

Reporting Period: December 26, 2019 to April 26, 2021

	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?	☐	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?	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.

	YES	NO
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

. Operation and Maintenance Plan for the Sub-slab Depressurization System.

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 at 4 CENTRE DRIVE, ORCHARD PARK, NY
print name print business address

am certifying as OWNER (Owner or Remedial Party)

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

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

5/25/21
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas H. Forbes, P.E. at 2558 Hamburg Turnpike, Suite 300, Buffalo NY 14218,

print name — print business address

am certifying as a Professional Engineer for the Owner

(Owner or Remedial Party)

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

Stamp (Required for PE)

Date 5-25-21

APPENDIX B

PHOTOGRAPHIC LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: Asphalt cover system (Former Burton Street) on north side of building looking east.

Photo 2: 2-foot crushed stone cover system over former subbasement in central portion of the building looking north.

Photo 3: Concrete cover system (covered with plywood) in former loading dock area.

Photo 4: 2-foot crushed stone cover system in former transformer room in central portion of the building, looking southwest.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: Concrete cover system in norther portion of the building, looking west.

Photo 6: Concrete cover system in southwestern portion of the building, looking northwest.

Photo 7: Concrete cover system in the southeastern portion of the building, looking southeast.

Photo 8: Concrete cover system in the southern central portion of the building, looking south. Location of MW-6 under 1 to 2inches of water due to rain.

APPENDIX C

DEMOLITION DEBRIS SAMPLING AND CORRESPONDENCE INFORMATION

From: Walia, Jaspal (DEC)
To: Chris Z. Boron
Cc: Tom H. Forbes; Michael McGuigan; Tom A. Behrendt
Subject: RE: Former Trico Plant Demolition Debris
Date: Friday, March 20, 2020 10:36:36 AM
Attachments: image001.png

Chris,

I have reviewed the materials data. Based upon our conversation today and review of the data, the materials can be removed from the site to an acceptable facility.

Thanks,

Jaspal

From: Chris Z. Boron <cboron@bm-tk.com>
Sent: Tuesday, March 17, 2020 10:18 AM
To: Walia, Jaspal (DEC) <jaspal.walia@dec.ny.gov>
Cc: Tom H. Forbes <TForbes@bm-tk.com>; Michael McGuigan <mmcguigan@kroggrp.com>; Tom A. Behrendt <TBehrendt@bm-tk.com>
Subject: Former Trico Plant Demolition Debris

Hello Jaspal,
Hope all is well.
Some demolition debris has been generated at Trico from the on-going redevelopment activities. The concrete, brick, and block are from areas outside the former mass demolition area. As required by the Site Management Plan, representative composite samples were collected from the material and analyzed for PCBs. Benchmark collected the samples on February 21st. Wargo provided an excavator to dig into the piles and generate the 5-point composite samples. The attached photos show the three (3) areas of debris that were sampled. No material has been added to these piles since the sampling was completed.

We estimated that approximately 715 cubic yards of demo debris are present in the three (3) areas sampled. The analytical results are in the report titled L2007958. Demo Debris (DD) Comp #1 was collected from an estimated volume of 220 cyd, DD Comp #2 from an estimated volume of 215 cyds and DD Comp #3 from an estimated volume of 280 cyds. The PCB sample results were 0.319 mg/kg, 0.382 mg/kg, and 0.162 mg/kg, respectively, and the material is acceptable to be taken off-site for recycling. Similar to the mass demolition debris that had PCB concentration less than 1 mg/kg, the material will be taken to Iron City for recycling.

In addition to the demo debris, we also collected two (2) composite samples from the limestone blocks that was used to construct the wall in the old icehouse that will be removed. The analytical results are in the report titled L2009474. Sample LS-North had a PCB result of 0.32 mg/kg and LS-

South had a PCB result of 0.0165 mg/kg. The PCB concentrations are less than 1 mg/kg and the material is acceptable to be taken off-site for recycling (Iron City).

We would like to Department's approval to remove these materials from the Site.
Please let us know if you have any questions or would like to discuss.

Regards,

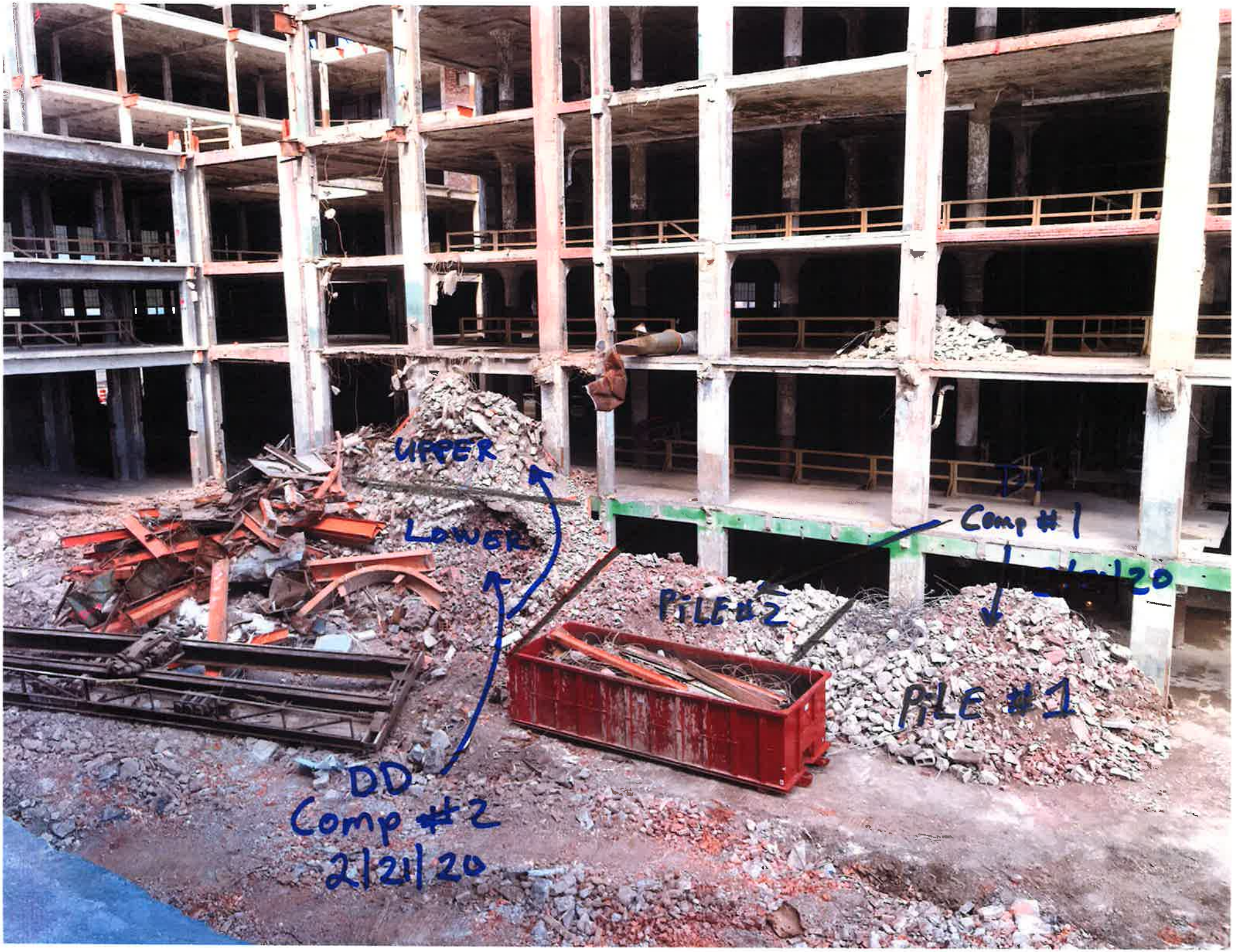
Christopher Boron, P.G.
Sr. Project Manager

BENCHMARK TURNKEY

Strong Advocates | Effective Solutions | Integrated Implementation
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Phone: (716) 856-0599, Cell Phone: (716) 864-2726
www.benchmarkturnkey.com

DISCLAIMERS:

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.
Virus Warning: While reasonable precautions have been taken to protect against viruses in


UPPER
LOWER
DD
Comp #2
2/21/20
PILE #2
Comp #1
PILE #1


PD
Comp #3
2/21/20
North
South

ANALYTICAL REPORT

Lab Number:	L2007958
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	FORMER TRICO PLANT
Project Number:	0092-016-001-006-06B
Report Date:	02/28/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B

Lab Number: L2007958
Report Date: 02/28/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2007958-01	DD COMP #1 2/21/20	BRICK	BUFFALO	02/21/20 12:10	02/21/20
L2007958-02	DD COMP #2 2/21/20	BRICK	BUFFALO	02/21/20 12:15	02/21/20
L2007958-03	DD COMP #3 2/21/20	BRICK	BUFFALO	02/21/20 12:20	02/21/20

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2007958
Project Number:	0092-016-001-006-06B	**Report Date:**	02/28/20

Case Narrative

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

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

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

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

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

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

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2007958
Project Number:	0092-016-001-006-06B	**Report Date:**	02/28/20

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 02/28/20

ORGANICS

PCBS

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B
Lab Number: L2007958
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2007958-01
Client ID: DD COMP #1 2/21/20
Sample Location: BUFFALO

Date Collected: 02/21/20 12:10
Date Received: 02/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Brick
Analytical Method: 1,8082A
Analytical Date: 02/25/20 13:32
Analyst: AWS
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 02/24/20 08:35
Cleanup Method: EPA 3665A
Cleanup Date: 02/25/20
Cleanup Method: EPA 3660B
Cleanup Date: 02/25/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	91.0	8.08	1	A
Aroclor 1221	ND		ug/kg	91.0	9.12	1	A
Aroclor 1232	ND		ug/kg	91.0	19.3	1	A
Aroclor 1242	ND		ug/kg	91.0	12.3	1	A
Aroclor 1248	286		ug/kg	91.0	13.6	1	A
Aroclor 1254	ND		ug/kg	91.0	9.96	1	A
Aroclor 1260	32.6	J	ug/kg	91.0	16.8	1	B
Aroclor 1262	ND		ug/kg	91.0	11.6	1	A
Aroclor 1268	ND		ug/kg	91.0	9.43	1	A
PCBs, Total	319	J	ug/kg	91.0	8.08	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B
Lab Number: L2007958
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2007958-02
Client ID: DD COMP #2 2/21/20
Sample Location: BUFFALO

Date Collected: 02/21/20 12:15
Date Received: 02/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Brick
Analytical Method: 1,8082A
Analytical Date: 02/25/20 13:44
Analyst: AWS
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 02/24/20 08:35
Cleanup Method: EPA 3665A
Cleanup Date: 02/25/20
Cleanup Method: EPA 3660B
Cleanup Date: 02/25/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	88.9	7.90	1	A
Aroclor 1221	ND		ug/kg	88.9	8.91	1	A
Aroclor 1232	ND		ug/kg	88.9	18.8	1	A
Aroclor 1242	ND		ug/kg	88.9	12.0	1	A
Aroclor 1248	183		ug/kg	88.9	13.3	1	A
Aroclor 1254	154		ug/kg	88.9	9.73	1	B
Aroclor 1260	44.6	J	ug/kg	88.9	16.4	1	A
Aroclor 1262	ND		ug/kg	88.9	11.3	1	A
Aroclor 1268	ND		ug/kg	88.9	9.21	1	A
PCBs, Total	382	J	ug/kg	88.9	7.90	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B
Lab Number: L2007958
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2007958-03
Client ID: DD COMP #3 2/21/20
Sample Location: BUFFALO

Date Collected: 02/21/20 12:20
Date Received: 02/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Brick
Analytical Method: 1,8082A
Analytical Date: 02/25/20 13:56
Analyst: AWS
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 02/24/20 08:35
Cleanup Method: EPA 3665A
Cleanup Date: 02/25/20
Cleanup Method: EPA 3660B
Cleanup Date: 02/25/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	90.8	8.06	1	A
Aroclor 1221	ND		ug/kg	90.8	9.10	1	A
Aroclor 1232	ND		ug/kg	90.8	19.2	1	A
Aroclor 1242	ND		ug/kg	90.8	12.2	1	A
Aroclor 1248	162		ug/kg	90.8	13.6	1	A
Aroclor 1254	ND		ug/kg	90.8	9.93	1	A
Aroclor 1260	ND		ug/kg	90.8	16.8	1	A
Aroclor 1262	ND		ug/kg	90.8	11.5	1	A
Aroclor 1268	ND		ug/kg	90.8	9.41	1	A
PCBs, Total	162		ug/kg	90.8	8.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B
Lab Number: L2007958
Report Date: 02/28/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/25/20 12:57
Analyst: AWS

Extraction Method: EPA 3540C
Extraction Date: 02/24/20 08:35
Cleanup Method: EPA 3665A
Cleanup Date: 02/25/20
Cleanup Method: EPA 3660B
Cleanup Date: 02/25/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1343716-1						
Aroclor 1016	ND		ug/kg	96.3	8.55	A
Aroclor 1221	ND		ug/kg	96.3	9.65	A
Aroclor 1232	ND		ug/kg	96.3	20.4	A
Aroclor 1242	ND		ug/kg	96.3	13.0	A
Aroclor 1248	ND		ug/kg	96.3	14.4	A
Aroclor 1254	ND		ug/kg	96.3	10.5	A
Aroclor 1260	ND		ug/kg	96.3	17.8	A
Aroclor 1262	ND		ug/kg	96.3	12.2	A
Aroclor 1268	ND		ug/kg	96.3	9.98	A
PCBs, Total	ND		ug/kg	96.3	8.55	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	51		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER TRICO PLANT

Project Number: 0092-016-001-006-06B

Lab Number: L2007958

Report Date: 02/28/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1343716-2 WG1343716-3									
Aroclor 1016	68		64		40-140	6		50	A
Aroclor 1260	59		54		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		58		30-150	A
Decachlorobiphenyl	57		51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		57		30-150	B
Decachlorobiphenyl	57		50		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B

Lab Number: L2007958
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2007958-01
Client ID: DD COMP #1 2/21/20
Sample Location: BUFFALO

Date Collected: 02/21/20 12:10
Date Received: 02/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Brick

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.7		%	0.100	NA	1	-	02/22/20 12:45	121,2540G	RI

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B

Lab Number: L2007958
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2007958-02
Client ID: DD COMP #2 2/21/20
Sample Location: BUFFALO

Date Collected: 02/21/20 12:15
Date Received: 02/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Brick

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	02/22/20 12:45	121,2540G	RI

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B

Lab Number: L2007958
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2007958-03
Client ID: DD COMP #3 2/21/20
Sample Location: BUFFALO

Date Collected: 02/21/20 12:20
Date Received: 02/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Brick

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	02/22/20 12:45	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER TRICO PLANT

Project Number: 0092-016-001-006-06B

Lab Number: L2007958

Report Date: 02/28/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1343446-1 QC Sample: L2007965-01 Client ID: DUP Sample						
Solids, Total	96.7	96.9	%	0		20

Project Name: FORMER TRICO PLANT
Project Number: 0092-016-001-006-06B

Lab Number: L2007958
Report Date: 02/28/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2007958-01A	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		TS(7),NYTCL-8082-CNCRT(14)
L2007958-02A	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		TS(7),NYTCL-8082-CNCRT(14)
L2007958-03A	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		TS(7),NYTCL-8082-CNCRT(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2007958
Project Number:	0092-016-001-006-06B	**Report Date:**	02/28/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2007958
Project Number:	0092-016-001-006-06B	**Report Date:**	02/28/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

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

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

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2007958
Project Number:	0092-016-001-006-06B	**Report Date:**	02/28/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2007958
Project Number:	0092-016-001-006-06B	**Report Date:**	02/28/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 02/22/20

ALPHA Job #: L2007958

Client Information

Client: Benchmark Env
Address: 2558 Hamburg Turpk
Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: Tbrkenck

Project Information

Project Name: Former Trico Plant
Project Location: Buffalo
Project # 0092-016-001-006-0613
(Use Project name as Project #) [X]
Project Manager: Chris Boron
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

CAT B

Please specify Metals or TAL.

Deliverables

[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information

[ ] Same as Client Info
PO #

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

ANALYSIS

T. PCBs

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	T. PCBs	Sample Specific Comments	Total Bottle
07958-01	DD Comp #1 2/21/20	2/21/20	1210	Concrete + Brick	TAB	X		1
-02	DD Comp #2 2/21/20	"	1215	"	"	X		1
-03	DD Comp #3 2/21/20	"	1220	"	"	X		1

Container Type: A
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	2/21/20 1430		2/22/20 1545
	2/21/20 1615		2/22/20 00:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2009474
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	FORMER TRICO PLANT
Project Number:	B0092-016-001-006-06
Report Date:	03/10/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06

Lab Number: L2009474
Report Date: 03/10/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2009474-01	LS-NORTH 3/3/20	SOLID	BUFFALO	03/03/20 10:50	03/03/20
L2009474-02	LS-SOUTH 3/3/20	SOLID	BUFFALO	03/03/20 11:00	03/03/20

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2009474
Project Number:	B0092-016-001-006-06	**Report Date:**	03/10/20

Case Narrative

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

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

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

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

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

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

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2009474
Project Number:	B0092-016-001-006-06	**Report Date:**	03/10/20

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 03/10/20

ORGANICS

PCBS

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06
Lab Number: L2009474
Report Date: 03/10/20

SAMPLE RESULTS

Lab ID: L2009474-01
Client ID: LS-NORTH 3/3/20
Sample Location: BUFFALO

Date Collected: 03/03/20 10:50
Date Received: 03/03/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 03/08/20 23:46
Analyst: CW
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 03/07/20 11:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/08/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/08/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	93.2	8.28	1	A
Aroclor 1221	ND		ug/kg	93.2	9.34	1	A
Aroclor 1232	ND		ug/kg	93.2	19.8	1	A
Aroclor 1242	ND		ug/kg	93.2	12.6	1	A
Aroclor 1248	280		ug/kg	93.2	14.0	1	B
Aroclor 1254	ND		ug/kg	93.2	10.2	1	A
Aroclor 1260	39.9	J	ug/kg	93.2	17.2	1	B
Aroclor 1262	ND		ug/kg	93.2	11.8	1	A
Aroclor 1268	ND		ug/kg	93.2	9.66	1	A
PCBs, Total	320	J	ug/kg	93.2	8.28	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06
Lab Number: L2009474
Report Date: 03/10/20

SAMPLE RESULTS

Lab ID: L2009474-02
Client ID: LS-SOUTH 3/3/20
Sample Location: BUFFALO

Date Collected: 03/03/20 11:00
Date Received: 03/03/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 03/08/20 23:58
Analyst: CW
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 03/07/20 11:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/08/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/08/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	99.8	8.87	1	A
Aroclor 1221	ND		ug/kg	99.8	10.0	1	A
Aroclor 1232	ND		ug/kg	99.8	21.2	1	A
Aroclor 1242	ND		ug/kg	99.8	13.5	1	A
Aroclor 1248	16.5	J	ug/kg	99.8	15.0	1	B
Aroclor 1254	ND		ug/kg	99.8	10.9	1	A
Aroclor 1260	ND		ug/kg	99.8	18.4	1	A
Aroclor 1262	ND		ug/kg	99.8	12.7	1	A
Aroclor 1268	ND		ug/kg	99.8	10.3	1	A
PCBs, Total	16.5	J	ug/kg	99.8	8.87	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06
Lab Number: L2009474
Report Date: 03/10/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/09/20 00:10
Analyst: CW

Extraction Method: EPA 3540C
Extraction Date: 03/07/20 11:40
Cleanup Method: EPA 3665A
Cleanup Date: 03/08/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/08/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1348389-1						
Aroclor 1016	ND		ug/kg	96.7	8.59	A
Aroclor 1221	ND		ug/kg	96.7	9.69	A
Aroclor 1232	ND		ug/kg	96.7	20.5	A
Aroclor 1242	ND		ug/kg	96.7	13.0	A
Aroclor 1248	ND		ug/kg	96.7	14.5	A
Aroclor 1254	ND		ug/kg	96.7	10.6	A
Aroclor 1260	ND		ug/kg	96.7	17.9	A
Aroclor 1262	ND		ug/kg	96.7	12.3	A
Aroclor 1268	ND		ug/kg	96.7	10.0	A
PCBs, Total	ND		ug/kg	96.7	8.59	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER TRICO PLANT

Project Number: B0092-016-001-006-06

Lab Number: L2009474

Report Date: 03/10/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1348389-2 WG1348389-3									
Aroclor 1016	71		73		40-140	3		50	A
Aroclor 1260	64		69		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		68		30-150	A
Decachlorobiphenyl	65		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		67		30-150	B
Decachlorobiphenyl	69		70		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06

Lab Number: L2009474
Report Date: 03/10/20

SAMPLE RESULTS

Lab ID: L2009474-01
Client ID: LS-NORTH 3/3/20
Sample Location: BUFFALO

Date Collected: 03/03/20 10:50
Date Received: 03/03/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.5		%	0.100	NA	1	-	03/05/20 04:51	121,2540G	PR

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06

Lab Number: L2009474
Report Date: 03/10/20

SAMPLE RESULTS

Lab ID: L2009474-02
Client ID: LS-SOUTH 3/3/20
Sample Location: BUFFALO

Date Collected: 03/03/20 11:00
Date Received: 03/03/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.8		%	0.100	NA	1	-	03/05/20 04:51	121,2540G	PR

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER TRICO PLANT

Project Number: B0092-016-001-006-06

Lab Number: L2009474

Report Date: 03/10/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1347385-1 QC Sample: L2009796-03 Client ID: DUP Sample						
Solids, Total	82.0	81.7	%	0		20

Project Name: FORMER TRICO PLANT
Project Number: B0092-016-001-006-06

Lab Number: L2009474
Report Date: 03/10/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2009474-01A	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		TS(7),NYTCL-8082-3540C(14)
L2009474-02A	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		TS(7),NYTCL-8082-3540C(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2009474
Project Number:	B0092-016-001-006-06	**Report Date:**	03/10/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2009474
Project Number:	B0092-016-001-006-06	**Report Date:**	03/10/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

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

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

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2009474
Project Number:	B0092-016-001-006-06	**Report Date:**	03/10/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER TRICO PLANT	**Lab Number:**	L2009474
Project Number:	B0092-016-001-006-06	**Report Date:**	03/10/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/4/20

ALPHA Job #: L2009474

Client Information

Client: Benchmark Eng
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: TBehrendt@tnlyllc.com

Project Information

Project Name: Former Trico Plant
Project Location: Buffalo
Project #: B0092-016-001-006-06A
(Use Project name as Project #) ☒
Project Manager: Chris Burns
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT B

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	T. PCBs	Sample Specific Comments	Total Bottle
09474-01	LS - North 3/3/20	3/3/20	1050	Limestone	TAB	X		1
-02	LS - South 3/3/20	"	1100	"	"	X		1

Container Type: A
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/3/20 1548	AAL	3/03/20 15:48
AAL	3/3/20 1719		3/4/20 01:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX D

GROUNDWATER SAMPLING INFORMATION

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-172679-1
Client Project/Site: Benchmark-791 Washington St.(Trico site)

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron

Authorized for release by:
7/28/2020 11:38:36 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: 480-172679-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-172679-1

Comments
No additional comments.

Receipt
The samples were received on 7/22/2020 11:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260C: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: RI-MW-4 (480-172679-2). pH is 6.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: RI-MW-4 (480-172679-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatile samples were diluted due to foaming at the time of purging during the original sample analysis: RI-MW-2 (480-172679-1), RI-MW-6 (480-172679-3), RI-MW-11 (480-172679-6), RI-MW-12 (480-172679-7), (480-172679-A-1 MS) and (480-172679-A-1 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: RI-MW-4 (480-172679-2). pH is 4.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: RI-MW-4 (480-172679-2). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2 — Lab Sample ID: 480-172679-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	6.8		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: RI-MW-4 — Lab Sample ID: 480-172679-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.8	J	20	6.0	ug/L	2		8260C	Total/NA
Carbon disulfide	3.0		2.0	0.38	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	180		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	210	E	2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	1.1	J	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	73		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon disulfide - DL	1.9	J	4.0	0.76	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene - DL	190		4.0	3.2	ug/L	4		8260C	Total/NA
Methyl tert-butyl ether - DL	2.2	J	4.0	0.64	ug/L	4		8260C	Total/NA
trans-1,2-Dichloroethene - DL	230		4.0	3.6	ug/L	4		8260C	Total/NA
Vinyl chloride - DL	84		4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: RI-MW-6 — Lab Sample ID: 480-172679-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	1.8	J	2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: RI-MW-9 — Lab Sample ID: 480-172679-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.1	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	26		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	1.5		1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.8		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.68	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.7		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: RI-MW-10 — Lab Sample ID: 480-172679-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.43	J	1.0	0.35	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: RI-MW-11 — Lab Sample ID: 480-172679-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		2.0	1.6	ug/L	2		8260C	Total/NA
Methylene Chloride	0.93	J	2.0	0.88	ug/L	2		8260C	Total/NA

Client Sample ID: RI-MW-12 — Lab Sample ID: 480-172679-7

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-172679-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.2		1.0	0.51	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2
Lab Sample ID: 480-172679-1
Date Collected: 07/21/20 09:05
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			07/24/20 02:59	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/24/20 02:59	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			07/24/20 02:59	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/24/20 02:59	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/24/20 02:59	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/24/20 02:59	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			07/24/20 02:59	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			07/24/20 02:59	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			07/24/20 02:59	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			07/24/20 02:59	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			07/24/20 02:59	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/24/20 02:59	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			07/24/20 02:59	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			07/24/20 02:59	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			07/24/20 02:59	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			07/24/20 02:59	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/24/20 02:59	4
2-Hexanone	ND		20	5.0	ug/L			07/24/20 02:59	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			07/24/20 02:59	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/24/20 02:59	4
Acetone	ND		40	12	ug/L			07/24/20 02:59	4
Benzene	ND		4.0	1.6	ug/L			07/24/20 02:59	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/24/20 02:59	4
Bromoform	ND		4.0	1.0	ug/L			07/24/20 02:59	4
Bromomethane	ND		4.0	2.8	ug/L			07/24/20 02:59	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/24/20 02:59	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/24/20 02:59	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/24/20 02:59	4
Chloroethane	ND		4.0	1.3	ug/L			07/24/20 02:59	4
Chloroform	ND		4.0	1.4	ug/L			07/24/20 02:59	4
Chloromethane	ND		4.0	1.4	ug/L			07/24/20 02:59	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			07/24/20 02:59	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/24/20 02:59	4
Cyclohexane	ND		4.0	0.72	ug/L			07/24/20 02:59	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/24/20 02:59	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			07/24/20 02:59	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/24/20 02:59	4
Isopropylbenzene	ND		4.0	3.2	ug/L			07/24/20 02:59	4
m,p-Xylene	ND		8.0	2.6	ug/L			07/24/20 02:59	4
Methyl acetate	ND		10	5.2	ug/L			07/24/20 02:59	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			07/24/20 02:59	4
Methylcyclohexane	ND		4.0	0.64	ug/L			07/24/20 02:59	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/24/20 02:59	4
n-Butylbenzene	ND		4.0	2.6	ug/L			07/24/20 02:59	4
N-Propylbenzene	ND		4.0	2.8	ug/L			07/24/20 02:59	4
o-Xylene	ND		4.0	3.0	ug/L			07/24/20 02:59	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			07/24/20 02:59	4
Styrene	ND		4.0	2.9	ug/L			07/24/20 02:59	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			07/24/20 02:59	4

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2
Lab Sample ID: 480-172679-1
Date Collected: 07/21/20 09:05
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 02:59	4
Toluene	ND		4.0	2.0	ug/L			07/24/20 02:59	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			07/24/20 02:59	4
trans-1,3-Dichloropropene	ND	F1	4.0	1.5	ug/L			07/24/20 02:59	4
Trichloroethene	**6.8**		4.0	1.8	ug/L			07/24/20 02:59	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			07/24/20 02:59	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/24/20 02:59	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/24/20 02:59	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/24/20 02:59*	*4*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/24/20 02:59*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/24/20 02:59*	*4*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-4
Lab Sample ID: 480-172679-2
Date Collected: 07/21/20 13:14
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			07/24/20 03:22	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/24/20 03:22	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/24/20 03:22	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/24/20 03:22	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/24/20 03:22	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/24/20 03:22	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/24/20 03:22	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/24/20 03:22	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/24/20 03:22	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 03:22	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/24/20 03:22	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/24/20 03:22	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 03:22	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/24/20 03:22	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/24/20 03:22	2
2-Hexanone	ND		10	2.5	ug/L			07/24/20 03:22	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			07/24/20 03:22	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/24/20 03:22	2
Acetone	**8.8**	**J**	20	6.0	ug/L			07/24/20 03:22	2
Benzene	ND		2.0	0.82	ug/L			07/24/20 03:22	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/24/20 03:22	2
Bromoform	ND		2.0	0.52	ug/L			07/24/20 03:22	2
Bromomethane	ND		2.0	1.4	ug/L			07/24/20 03:22	2
Carbon disulfide	**3.0**		2.0	0.38	ug/L			07/24/20 03:22	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/24/20 03:22	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
Chloroethane	ND		2.0	0.64	ug/L			07/24/20 03:22	2
Chloroform	ND		2.0	0.68	ug/L			07/24/20 03:22	2
Chloromethane	ND		2.0	0.70	ug/L			07/24/20 03:22	2
cis-1,2-Dichloroethene	**180**		2.0	1.6	ug/L			07/24/20 03:22	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/24/20 03:22	2
Cyclohexane	ND		2.0	0.36	ug/L			07/24/20 03:22	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/24/20 03:22	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/24/20 03:22	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/24/20 03:22	2
m,p-Xylene	ND		4.0	1.3	ug/L			07/24/20 03:22	2
Methyl acetate	ND		5.0	2.6	ug/L			07/24/20 03:22	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/24/20 03:22	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/24/20 03:22	2
Methylene Chloride	ND		2.0	0.88	ug/L			07/24/20 03:22	2
n-Butylbenzene	ND		2.0	1.3	ug/L			07/24/20 03:22	2
N-Propylbenzene	ND		2.0	1.4	ug/L			07/24/20 03:22	2
o-Xylene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
Styrene	ND		2.0	1.5	ug/L			07/24/20 03:22	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			07/24/20 03:22	2

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-4
Lab Sample ID: 480-172679-2
Date Collected: 07/21/20 13:14
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 03:22	2
Toluene	ND		2.0	1.0	ug/L			07/24/20 03:22	2
trans-1,2-Dichloroethene	**210**	**E**	2.0	1.8	ug/L			07/24/20 03:22	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/24/20 03:22	2
Trichloroethene	**1.1**	**J**	2.0	0.92	ug/L			07/24/20 03:22	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/24/20 03:22	2
Vinyl chloride	**73**		2.0	1.8	ug/L			07/24/20 03:22	2
Xylenes, Total	ND		4.0	1.3	ug/L			07/24/20 03:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*07/24/20 03:22*	*2*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*07/24/20 03:22*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/24/20 03:22*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			07/24/20 13:19	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/24/20 13:19	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			07/24/20 13:19	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/24/20 13:19	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/24/20 13:19	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/24/20 13:19	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			07/24/20 13:19	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			07/24/20 13:19	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			07/24/20 13:19	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			07/24/20 13:19	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			07/24/20 13:19	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/24/20 13:19	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			07/24/20 13:19	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			07/24/20 13:19	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			07/24/20 13:19	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			07/24/20 13:19	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/24/20 13:19	4
2-Hexanone	ND		20	5.0	ug/L			07/24/20 13:19	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			07/24/20 13:19	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/24/20 13:19	4
Acetone	ND		40	12	ug/L			07/24/20 13:19	4
Benzene	ND		4.0	1.6	ug/L			07/24/20 13:19	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/24/20 13:19	4
Bromoform	ND		4.0	1.0	ug/L			07/24/20 13:19	4
Bromomethane	ND		4.0	2.8	ug/L			07/24/20 13:19	4
Carbon disulfide	**1.9**	**J**	4.0	0.76	ug/L			07/24/20 13:19	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/24/20 13:19	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/24/20 13:19	4
Chloroethane	ND		4.0	1.3	ug/L			07/24/20 13:19	4
Chloroform	ND		4.0	1.4	ug/L			07/24/20 13:19	4
Chloromethane	ND		4.0	1.4	ug/L			07/24/20 13:19	4
cis-1,2-Dichloroethene	**190**		4.0	3.2	ug/L			07/24/20 13:19	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/24/20 13:19	4
Cyclohexane	ND		4.0	0.72	ug/L			07/24/20 13:19	4

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-4
Lab Sample ID: 480-172679-2
Date Collected: 07/21/20 13:14
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		4.0	1.3	ug/L			07/24/20 13:19	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			07/24/20 13:19	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/24/20 13:19	4
Isopropylbenzene	ND		4.0	3.2	ug/L			07/24/20 13:19	4
m,p-Xylene	ND		8.0	2.6	ug/L			07/24/20 13:19	4
Methyl acetate	ND		10	5.2	ug/L			07/24/20 13:19	4
Methyl tert-butyl ether	**2.2**	**J**	4.0	0.64	ug/L			07/24/20 13:19	4
Methylcyclohexane	ND		4.0	0.64	ug/L			07/24/20 13:19	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/24/20 13:19	4
n-Butylbenzene	ND		4.0	2.6	ug/L			07/24/20 13:19	4
N-Propylbenzene	ND		4.0	2.8	ug/L			07/24/20 13:19	4
o-Xylene	ND		4.0	3.0	ug/L			07/24/20 13:19	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			07/24/20 13:19	4
Styrene	ND		4.0	2.9	ug/L			07/24/20 13:19	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			07/24/20 13:19	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/24/20 13:19	4
Toluene	ND		4.0	2.0	ug/L			07/24/20 13:19	4
trans-1,2-Dichloroethene	**230**		4.0	3.6	ug/L			07/24/20 13:19	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/24/20 13:19	4
Trichloroethene	ND		4.0	1.8	ug/L			07/24/20 13:19	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			07/24/20 13:19	4
Vinyl chloride	**84**		4.0	3.6	ug/L			07/24/20 13:19	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/24/20 13:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*07/24/20 13:19*	*4*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*07/24/20 13:19*	*4*
Toluene-d8 (Surr)	*103*		*80 - 120*		*07/24/20 13:19*	*4*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-6
Lab Sample ID: 480-172679-3
Date Collected: 07/21/20 14:09
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			07/24/20 03:45	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/24/20 03:45	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/24/20 03:45	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/24/20 03:45	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/24/20 03:45	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/24/20 03:45	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/24/20 03:45	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/24/20 03:45	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/24/20 03:45	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 03:45	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/24/20 03:45	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/24/20 03:45	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 03:45	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/24/20 03:45	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/24/20 03:45	2
2-Hexanone	ND		10	2.5	ug/L			07/24/20 03:45	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			07/24/20 03:45	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/24/20 03:45	2
Acetone	ND		20	6.0	ug/L			07/24/20 03:45	2
Benzene	ND		2.0	0.82	ug/L			07/24/20 03:45	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/24/20 03:45	2
Bromoform	ND		2.0	0.52	ug/L			07/24/20 03:45	2
Bromomethane	ND		2.0	1.4	ug/L			07/24/20 03:45	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/24/20 03:45	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/24/20 03:45	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
Chloroethane	ND		2.0	0.64	ug/L			07/24/20 03:45	2
Chloroform	ND		2.0	0.68	ug/L			07/24/20 03:45	2
Chloromethane	ND		2.0	0.70	ug/L			07/24/20 03:45	2
cis-1,2-Dichloroethene	**3.6**		2.0	1.6	ug/L			07/24/20 03:45	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/24/20 03:45	2
Cyclohexane	ND		2.0	0.36	ug/L			07/24/20 03:45	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/24/20 03:45	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/24/20 03:45	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/24/20 03:45	2
m,p-Xylene	ND		4.0	1.3	ug/L			07/24/20 03:45	2
Methyl acetate	ND		5.0	2.6	ug/L			07/24/20 03:45	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/24/20 03:45	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/24/20 03:45	2
Methylene Chloride	ND		2.0	0.88	ug/L			07/24/20 03:45	2
n-Butylbenzene	ND		2.0	1.3	ug/L			07/24/20 03:45	2
N-Propylbenzene	ND		2.0	1.4	ug/L			07/24/20 03:45	2
o-Xylene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
Styrene	ND		2.0	1.5	ug/L			07/24/20 03:45	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			07/24/20 03:45	2

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-6
Lab Sample ID: 480-172679-3
Date Collected: 07/21/20 14:09
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 03:45	2
Toluene	ND		2.0	1.0	ug/L			07/24/20 03:45	2
trans-1,2-Dichloroethene	**1.8**	**J**	2.0	1.8	ug/L			07/24/20 03:45	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/24/20 03:45	2
Trichloroethene	ND		2.0	0.92	ug/L			07/24/20 03:45	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/24/20 03:45	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/24/20 03:45	2
Xylenes, Total	ND		4.0	1.3	ug/L			07/24/20 03:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/24/20 03:45*	*2*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/24/20 03:45*	*2*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/24/20 03:45*	*2*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-9
Lab Sample ID: 480-172679-4
Date Collected: 07/21/20 11:33
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/24/20 04:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/24/20 04:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/24/20 04:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/24/20 04:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/24/20 04:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/24/20 04:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 04:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/24/20 04:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/24/20 04:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/24/20 04:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/24/20 04:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/24/20 04:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/24/20 04:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/24/20 04:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/24/20 04:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/24/20 04:08	1
2-Butanone (MEK)	**4.1**	**J**	10	1.3	ug/L			07/24/20 04:08	1
2-Hexanone	ND		5.0	1.2	ug/L			07/24/20 04:08	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/24/20 04:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/24/20 04:08	1
Acetone	**26**		10	3.0	ug/L			07/24/20 04:08	1
Benzene	ND		1.0	0.41	ug/L			07/24/20 04:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/24/20 04:08	1
Bromoform	ND		1.0	0.26	ug/L			07/24/20 04:08	1
Bromomethane	ND		1.0	0.69	ug/L			07/24/20 04:08	1
Carbon disulfide	**1.5**		1.0	0.19	ug/L			07/24/20 04:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/24/20 04:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/24/20 04:08	1
Chloroethane	ND		1.0	0.32	ug/L			07/24/20 04:08	1
Chloroform	ND		1.0	0.34	ug/L			07/24/20 04:08	1
Chloromethane	ND		1.0	0.35	ug/L			07/24/20 04:08	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.81	ug/L			07/24/20 04:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/24/20 04:08	1
Cyclohexane	ND		1.0	0.18	ug/L			07/24/20 04:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/24/20 04:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/24/20 04:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/24/20 04:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/24/20 04:08	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/24/20 04:08	1
Methyl acetate	ND		2.5	1.3	ug/L			07/24/20 04:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/24/20 04:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/24/20 04:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/24/20 04:08	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/24/20 04:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/20 04:08	1
o-Xylene	ND		1.0	0.76	ug/L			07/24/20 04:08	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/24/20 04:08	1
Styrene	ND		1.0	0.73	ug/L			07/24/20 04:08	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/24/20 04:08	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-9
Lab Sample ID: 480-172679-4
Date Collected: 07/21/20 11:33
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**0.68**	**J**	1.0	0.36	ug/L			07/24/20 04:08	1
Toluene	ND		1.0	0.51	ug/L			07/24/20 04:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/24/20 04:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/24/20 04:08	1
Trichloroethene	**3.7**		1.0	0.46	ug/L			07/24/20 04:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/24/20 04:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/24/20 04:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/24/20 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*07/24/20 04:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*07/24/20 04:08*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/24/20 04:08*	*1*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-10
Lab Sample ID: 480-172679-5
Date Collected: 07/21/20 10:02
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/24/20 04:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/24/20 04:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/24/20 04:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/24/20 04:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/24/20 04:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/24/20 04:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 04:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/24/20 04:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/24/20 04:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/24/20 04:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/24/20 04:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/24/20 04:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/24/20 04:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/24/20 04:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/24/20 04:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/24/20 04:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/24/20 04:31	1
2-Hexanone	ND		5.0	1.2	ug/L			07/24/20 04:31	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/24/20 04:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/24/20 04:31	1
Acetone	ND		10	3.0	ug/L			07/24/20 04:31	1
Benzene	ND		1.0	0.41	ug/L			07/24/20 04:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/24/20 04:31	1
Bromoform	ND		1.0	0.26	ug/L			07/24/20 04:31	1
Bromomethane	ND		1.0	0.69	ug/L			07/24/20 04:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/24/20 04:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/24/20 04:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/24/20 04:31	1
Chloroethane	ND		1.0	0.32	ug/L			07/24/20 04:31	1
Chloroform	ND		1.0	0.34	ug/L			07/24/20 04:31	1
Chloromethane	**0.43**	**J**	1.0	0.35	ug/L			07/24/20 04:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/24/20 04:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/24/20 04:31	1
Cyclohexane	ND		1.0	0.18	ug/L			07/24/20 04:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/24/20 04:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/24/20 04:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/24/20 04:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/24/20 04:31	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/24/20 04:31	1
Methyl acetate	ND		2.5	1.3	ug/L			07/24/20 04:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/24/20 04:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/24/20 04:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/24/20 04:31	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/24/20 04:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/20 04:31	1
o-Xylene	ND		1.0	0.76	ug/L			07/24/20 04:31	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/24/20 04:31	1
Styrene	ND		1.0	0.73	ug/L			07/24/20 04:31	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/24/20 04:31	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-10
Lab Sample ID: 480-172679-5
Date Collected: 07/21/20 10:02
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 04:31	1
Toluene	ND		1.0	0.51	ug/L			07/24/20 04:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/24/20 04:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/24/20 04:31	1
Trichloroethene	**2.0**		1.0	0.46	ug/L			07/24/20 04:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/24/20 04:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/24/20 04:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/24/20 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*07/24/20 04:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*07/24/20 04:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/24/20 04:31*	*1*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-11
Lab Sample ID: 480-172679-6
Date Collected: 07/21/20 11:52
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			07/24/20 04:54	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/24/20 04:54	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/24/20 04:54	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/24/20 04:54	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/24/20 04:54	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/24/20 04:54	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/24/20 04:54	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/24/20 04:54	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/24/20 04:54	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 04:54	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/24/20 04:54	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/24/20 04:54	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 04:54	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/24/20 04:54	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/24/20 04:54	2
2-Hexanone	ND		10	2.5	ug/L			07/24/20 04:54	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			07/24/20 04:54	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/24/20 04:54	2
Acetone	ND		20	6.0	ug/L			07/24/20 04:54	2
Benzene	ND		2.0	0.82	ug/L			07/24/20 04:54	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/24/20 04:54	2
Bromoform	ND		2.0	0.52	ug/L			07/24/20 04:54	2
Bromomethane	ND		2.0	1.4	ug/L			07/24/20 04:54	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/24/20 04:54	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/24/20 04:54	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
Chloroethane	ND		2.0	0.64	ug/L			07/24/20 04:54	2
Chloroform	ND		2.0	0.68	ug/L			07/24/20 04:54	2
Chloromethane	ND		2.0	0.70	ug/L			07/24/20 04:54	2
cis-1,2-Dichloroethene	**2.2**		2.0	1.6	ug/L			07/24/20 04:54	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/24/20 04:54	2
Cyclohexane	ND		2.0	0.36	ug/L			07/24/20 04:54	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/24/20 04:54	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/24/20 04:54	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/24/20 04:54	2
m,p-Xylene	ND		4.0	1.3	ug/L			07/24/20 04:54	2
Methyl acetate	ND		5.0	2.6	ug/L			07/24/20 04:54	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/24/20 04:54	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/24/20 04:54	2
Methylene Chloride	**0.93**	**J**	2.0	0.88	ug/L			07/24/20 04:54	2
n-Butylbenzene	ND		2.0	1.3	ug/L			07/24/20 04:54	2
N-Propylbenzene	ND		2.0	1.4	ug/L			07/24/20 04:54	2
o-Xylene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
Styrene	ND		2.0	1.5	ug/L			07/24/20 04:54	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			07/24/20 04:54	2

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-11
Lab Sample ID: 480-172679-6
Date Collected: 07/21/20 11:52
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 04:54	2
Toluene	ND		2.0	1.0	ug/L			07/24/20 04:54	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/24/20 04:54	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/24/20 04:54	2
Trichloroethene	ND		2.0	0.92	ug/L			07/24/20 04:54	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/24/20 04:54	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/24/20 04:54	2
Xylenes, Total	ND		4.0	1.3	ug/L			07/24/20 04:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*07/24/20 04:54*	*2*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/24/20 04:54*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/24/20 04:54*	*2*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-12
Lab Sample ID: 480-172679-7
Date Collected: 07/21/20 15:25
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			07/24/20 05:17	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/24/20 05:17	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/24/20 05:17	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/24/20 05:17	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/24/20 05:17	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/24/20 05:17	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/24/20 05:17	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/24/20 05:17	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/24/20 05:17	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 05:17	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/24/20 05:17	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/24/20 05:17	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 05:17	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/24/20 05:17	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/24/20 05:17	2
2-Hexanone	ND		10	2.5	ug/L			07/24/20 05:17	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			07/24/20 05:17	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/24/20 05:17	2
Acetone	ND		20	6.0	ug/L			07/24/20 05:17	2
Benzene	ND		2.0	0.82	ug/L			07/24/20 05:17	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/24/20 05:17	2
Bromoform	ND		2.0	0.52	ug/L			07/24/20 05:17	2
Bromomethane	ND		2.0	1.4	ug/L			07/24/20 05:17	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/24/20 05:17	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/24/20 05:17	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
Chloroethane	ND		2.0	0.64	ug/L			07/24/20 05:17	2
Chloroform	ND		2.0	0.68	ug/L			07/24/20 05:17	2
Chloromethane	ND		2.0	0.70	ug/L			07/24/20 05:17	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			07/24/20 05:17	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/24/20 05:17	2
Cyclohexane	ND		2.0	0.36	ug/L			07/24/20 05:17	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/24/20 05:17	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/24/20 05:17	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/24/20 05:17	2
m,p-Xylene	ND		4.0	1.3	ug/L			07/24/20 05:17	2
Methyl acetate	ND		5.0	2.6	ug/L			07/24/20 05:17	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/24/20 05:17	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/24/20 05:17	2
Methylene Chloride	ND		2.0	0.88	ug/L			07/24/20 05:17	2
n-Butylbenzene	ND		2.0	1.3	ug/L			07/24/20 05:17	2
N-Propylbenzene	ND		2.0	1.4	ug/L			07/24/20 05:17	2
o-Xylene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
Styrene	ND		2.0	1.5	ug/L			07/24/20 05:17	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			07/24/20 05:17	2

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-12
Lab Sample ID: 480-172679-7
Date Collected: 07/21/20 15:25
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 05:17	2
Toluene	ND		2.0	1.0	ug/L			07/24/20 05:17	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/24/20 05:17	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/24/20 05:17	2
Trichloroethene	ND		2.0	0.92	ug/L			07/24/20 05:17	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/24/20 05:17	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/24/20 05:17	2
Xylenes, Total	ND		4.0	1.3	ug/L			07/24/20 05:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*07/24/20 05:17*	*2*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/24/20 05:17*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/24/20 05:17*	*2*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-172679-8
Date Collected: 07/21/20 00:00
Matrix: Water
Date Received: 07/22/20 11:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/24/20 05:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/24/20 05:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/24/20 05:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/24/20 05:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/24/20 05:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/24/20 05:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 05:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/24/20 05:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/24/20 05:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/24/20 05:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/24/20 05:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/24/20 05:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/24/20 05:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/24/20 05:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/24/20 05:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/24/20 05:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/24/20 05:40	1
2-Hexanone	ND		5.0	1.2	ug/L			07/24/20 05:40	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/24/20 05:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/24/20 05:40	1
Acetone	ND		10	3.0	ug/L			07/24/20 05:40	1
Benzene	ND		1.0	0.41	ug/L			07/24/20 05:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/24/20 05:40	1
Bromoform	ND		1.0	0.26	ug/L			07/24/20 05:40	1
Bromomethane	ND		1.0	0.69	ug/L			07/24/20 05:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/24/20 05:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/24/20 05:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/24/20 05:40	1
Chloroethane	ND		1.0	0.32	ug/L			07/24/20 05:40	1
Chloroform	ND		1.0	0.34	ug/L			07/24/20 05:40	1
Chloromethane	ND		1.0	0.35	ug/L			07/24/20 05:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/24/20 05:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/24/20 05:40	1
Cyclohexane	ND		1.0	0.18	ug/L			07/24/20 05:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/24/20 05:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/24/20 05:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/24/20 05:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/24/20 05:40	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/24/20 05:40	1
Methyl acetate	ND		2.5	1.3	ug/L			07/24/20 05:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/24/20 05:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/24/20 05:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/24/20 05:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/24/20 05:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/20 05:40	1
o-Xylene	ND		1.0	0.76	ug/L			07/24/20 05:40	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/24/20 05:40	1
Styrene	ND		1.0	0.73	ug/L			07/24/20 05:40	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/24/20 05:40	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-172679-8
Date Collected: 07/21/20 00:00
Matrix: Water
Date Received: 07/22/20 11:40

Method: 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			07/24/20 05:40	1
Toluene	**1.2**		1.0	0.51	ug/L			07/24/20 05:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/24/20 05:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/24/20 05:40	1
Trichloroethene	ND		1.0	0.46	ug/L			07/24/20 05:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/24/20 05:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/24/20 05:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/24/20 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*07/24/20 05:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*07/24/20 05:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/24/20 05:40*	*1*

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
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)						
480-172679-1	RI-MW-2	99	98	101						
480-172679-1 MS	RI-MW-2	100	99	101						
480-172679-1 MSD	RI-MW-2	102	99	100						
480-172679-2	RI-MW-4	97	101	100						
480-172679-2 - DL	RI-MW-4	97	103	103						
480-172679-3	RI-MW-6	99	99	101						
480-172679-4	RI-MW-9	104	100	101						
480-172679-5	RI-MW-10	100	101	102						
480-172679-6	RI-MW-11	104	99	100						
480-172679-7	RI-MW-12	100	98	100						
480-172679-8	TRIP BLANK	100	101	100						
LCS 480-541833/6	Lab Control Sample	98	99	101						
LCS 480-541939/5	Lab Control Sample	99	100	98						
MB 480-541833/9	Method Blank	99	101	101						
MB 480-541939/7	Method Blank	101	99	102						

Surrogate Legend

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

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Lab Sample ID: MB 480-541833/9
Matrix: Water
Analysis Batch: 541833

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			07/24/20 02:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/24/20 02:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/24/20 02:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/24/20 02:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/24/20 02:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/24/20 02:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 02:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/24/20 02:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/24/20 02:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/24/20 02:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/24/20 02:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/24/20 02:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/24/20 02:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/24/20 02:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/24/20 02:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/24/20 02:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/24/20 02:13	1
2-Hexanone	ND		5.0	1.2	ug/L			07/24/20 02:13	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/24/20 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/24/20 02:13	1
Acetone	ND		10	3.0	ug/L			07/24/20 02:13	1
Benzene	ND		1.0	0.41	ug/L			07/24/20 02:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/24/20 02:13	1
Bromoform	ND		1.0	0.26	ug/L			07/24/20 02:13	1
Bromomethane	ND		1.0	0.69	ug/L			07/24/20 02:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/24/20 02:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/24/20 02:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/24/20 02:13	1
Chloroethane	ND		1.0	0.32	ug/L			07/24/20 02:13	1
Chloroform	ND		1.0	0.34	ug/L			07/24/20 02:13	1
Chloromethane	ND		1.0	0.35	ug/L			07/24/20 02:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/24/20 02:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/24/20 02:13	1
Cyclohexane	ND		1.0	0.18	ug/L			07/24/20 02:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/24/20 02:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/24/20 02:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/24/20 02:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/24/20 02:13	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/24/20 02:13	1
Methyl acetate	ND		2.5	1.3	ug/L			07/24/20 02:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/24/20 02:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/24/20 02:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/24/20 02:13	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/24/20 02:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/20 02:13	1
o-Xylene	ND		1.0	0.76	ug/L			07/24/20 02:13	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/24/20 02:13	1
Styrene	ND		1.0	0.73	ug/L			07/24/20 02:13	1

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

Lab Sample ID: MB 480-541833/9
Matrix: Water
Analysis Batch: 541833

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			07/24/20 02:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/24/20 02:13	1
Toluene	ND		1.0	0.51	ug/L			07/24/20 02:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/24/20 02:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/24/20 02:13	1
Trichloroethene	ND		1.0	0.46	ug/L			07/24/20 02:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/24/20 02:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/24/20 02:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/24/20 02:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*07/24/20 02:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*07/24/20 02:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/24/20 02:13*	*1*

Lab Sample ID: LCS 480-541833/6
Matrix: Water
Analysis Batch: 541833

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	24.6		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	23.3		ug/L		93	61 - 148
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.1		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	79 - 122
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	77 - 121
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 120
2-Butanone (MEK)	125	112		ug/L		89	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Isopropyltoluene	25.0	24.3		ug/L		97	73 - 120
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	24.0		ug/L		96	80 - 122
Bromoform	25.0	22.8		ug/L		91	61 - 132
Bromomethane	25.0	22.0		ug/L		88	55 - 144
Carbon disulfide	25.0	23.7		ug/L		95	59 - 134
Carbon tetrachloride	25.0	23.9		ug/L		96	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120

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

Lab Sample ID: LCS 480-541833/6
Matrix: Water
Analysis Batch: 541833

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	24.4		ug/L		97	69 - 136
Chloroform	25.0	22.6		ug/L		90	73 - 127
Chloromethane	25.0	21.4		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	22.9		ug/L		92	74 - 124
Cyclohexane	25.0	23.9		ug/L		96	59 - 135
Dibromochloromethane	25.0	24.0		ug/L		96	75 - 125
Dichlorodifluoromethane	25.0	23.8		ug/L		95	59 - 135
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Isopropylbenzene	25.0	24.5		ug/L		98	77 - 122
m,p-Xylene	25.0	24.2		ug/L		97	76 - 122
Methyl acetate	50.0	45.9		ug/L		92	74 - 133
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
Methylcyclohexane	25.0	24.0		ug/L		96	68 - 134
Methylene Chloride	25.0	22.9		ug/L		92	75 - 124
n-Butylbenzene	25.0	23.5		ug/L		94	71 - 128
N-Propylbenzene	25.0	24.0		ug/L		96	75 - 127
o-Xylene	25.0	24.0		ug/L		96	76 - 122
sec-Butylbenzene	25.0	24.4		ug/L		97	74 - 127
Styrene	25.0	23.7		ug/L		95	80 - 120
tert-Butylbenzene	25.0	25.0		ug/L		100	75 - 123
Tetrachloroethene	25.0	23.9		ug/L		96	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	80 - 120
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 150
Vinyl chloride	25.0	24.3		ug/L		97	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-172679-1 MS
Matrix: Water
Analysis Batch: 541833

Client Sample ID: RI-MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		100	92.5		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	ND		100	84.6		ug/L		85	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	84.1		ug/L		84	61 - 148
1,1,2-Trichloroethane	ND		100	88.2		ug/L		88	76 - 122
1,1-Dichloroethane	ND		100	89.7		ug/L		90	77 - 120
1,1-Dichloroethene	ND		100	87.9		ug/L		88	66 - 127
1,2,4-Trichlorobenzene	ND		100	85.9		ug/L		86	79 - 122
1,2,4-Trimethylbenzene	ND		100	88.7		ug/L		89	76 - 121
1,2-Dibromo-3-Chloropropane	ND		100	82.6		ug/L		83	56 - 134

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

Lab Sample ID: 480-172679-1 MS
Matrix: Water
Analysis Batch: 541833

Client Sample ID: RI-MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	ND		100	92.2		ug/L		92	77 - 120
1,2-Dichlorobenzene	ND		100	87.6		ug/L		88	80 - 124
1,2-Dichloroethane	ND		100	84.5		ug/L		84	75 - 120
1,2-Dichloropropane	ND		100	94.0		ug/L		94	76 - 120
1,3,5-Trimethylbenzene	ND		100	89.7		ug/L		90	77 - 121
1,3-Dichlorobenzene	ND		100	86.1		ug/L		86	77 - 120
1,4-Dichlorobenzene	ND		100	87.0		ug/L		87	78 - 124
2-Butanone (MEK)	ND		500	420		ug/L		84	57 - 140
2-Hexanone	ND		500	428		ug/L		86	65 - 127
4-Isopropyltoluene	ND		100	87.5		ug/L		88	73 - 120
4-Methyl-2-pentanone (MIBK)	ND		500	440		ug/L		88	71 - 125
Acetone	ND		500	426		ug/L		85	56 - 142
Benzene	ND		100	91.0		ug/L		91	71 - 124
Bromodichloromethane	ND		100	88.4		ug/L		88	80 - 122
Bromoform	ND		100	77.1		ug/L		77	61 - 132
Bromomethane	ND		100	82.7		ug/L		83	55 - 144
Carbon disulfide	ND		100	78.1		ug/L		78	59 - 134
Carbon tetrachloride	ND		100	88.3		ug/L		88	72 - 134
Chlorobenzene	ND		100	90.7		ug/L		91	80 - 120
Chloroethane	ND		100	93.9		ug/L		94	69 - 136
Chloroform	ND		100	84.5		ug/L		85	73 - 127
Chloromethane	ND		100	85.5		ug/L		85	68 - 124
cis-1,2-Dichloroethene	ND		100	88.3		ug/L		88	74 - 124
cis-1,3-Dichloropropene	ND		100	81.3		ug/L		81	74 - 124
Cyclohexane	ND		100	86.7		ug/L		87	59 - 135
Dibromochloromethane	ND		100	85.6		ug/L		86	75 - 125
Dichlorodifluoromethane	ND		100	98.4		ug/L		98	59 - 135
Ethylbenzene	ND		100	90.5		ug/L		91	77 - 123
Isopropylbenzene	ND		100	89.1		ug/L		89	77 - 122
m,p-Xylene	ND		100	91.0		ug/L		91	76 - 122
Methyl acetate	ND		200	165		ug/L		82	74 - 133
Methyl tert-butyl ether	ND		100	90.6		ug/L		91	77 - 120
Methylcyclohexane	ND		100	87.5		ug/L		87	68 - 134
Methylene Chloride	ND		100	84.4		ug/L		84	75 - 124
n-Butylbenzene	ND		100	85.6		ug/L		86	71 - 128
N-Propylbenzene	ND		100	86.6		ug/L		87	75 - 127
o-Xylene	ND		100	89.6		ug/L		90	76 - 122
sec-Butylbenzene	ND		100	88.2		ug/L		88	74 - 127
Styrene	ND		100	88.9		ug/L		89	80 - 120
tert-Butylbenzene	ND		100	90.8		ug/L		91	75 - 123
Tetrachloroethene	ND		100	91.5		ug/L		92	74 - 122
Toluene	ND		100	90.7		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		100	88.5		ug/L		88	73 - 127
trans-1,3-Dichloropropene	ND	F1	100	80.5		ug/L		80	80 - 120
Trichloroethene	6.8		100	97.5		ug/L		91	74 - 123
Trichlorofluoromethane	ND		100	93.4		ug/L		93	62 - 150
Vinyl chloride	ND		100	95.3		ug/L		95	65 - 133

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

Lab Sample ID: 480-172679-1 MS
Matrix: Water
Analysis Batch: 541833

Client Sample ID: RI-MW-2
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-172679-1 MSD
Matrix: Water
Analysis Batch: 541833

Client Sample ID: RI-MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		100	94.7		ug/L		95	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		100	88.0		ug/L		88	76 - 120	4	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	83.1		ug/L		83	61 - 148	1	20
1,1,2-Trichloroethane	ND		100	85.1		ug/L		85	76 - 122	4	15
1,1-Dichloroethane	ND		100	92.9		ug/L		93	77 - 120	3	20
1,1-Dichloroethene	ND		100	87.4		ug/L		87	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		100	85.7		ug/L		86	79 - 122	0	20
1,2,4-Trimethylbenzene	ND		100	89.2		ug/L		89	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	ND		100	84.9		ug/L		85	56 - 134	3	15
1,2-Dibromoethane	ND		100	87.9		ug/L		88	77 - 120	5	15
1,2-Dichlorobenzene	ND		100	88.4		ug/L		88	80 - 124	1	20
1,2-Dichloroethane	ND		100	84.8		ug/L		85	75 - 120	0	20
1,2-Dichloropropane	ND		100	93.9		ug/L		94	76 - 120	0	20
1,3,5-Trimethylbenzene	ND		100	91.7		ug/L		92	77 - 121	2	20
1,3-Dichlorobenzene	ND		100	89.1		ug/L		89	77 - 120	3	20
1,4-Dichlorobenzene	ND		100	87.0		ug/L		87	78 - 124	0	20
2-Butanone (MEK)	ND		500	419		ug/L		84	57 - 140	0	20
2-Hexanone	ND		500	431		ug/L		86	65 - 127	1	15
4-Isopropyltoluene	ND		100	88.1		ug/L		88	73 - 120	1	20
4-Methyl-2-pentanone (MIBK)	ND		500	435		ug/L		87	71 - 125	1	35
Acetone	ND		500	426		ug/L		85	56 - 142	0	15
Benzene	ND		100	93.8		ug/L		94	71 - 124	3	13
Bromodichloromethane	ND		100	89.3		ug/L		89	80 - 122	1	15
Bromoform	ND		100	78.5		ug/L		78	61 - 132	2	15
Bromomethane	ND		100	86.4		ug/L		86	55 - 144	4	15
Carbon disulfide	ND		100	79.1		ug/L		79	59 - 134	1	15
Carbon tetrachloride	ND		100	91.6		ug/L		92	72 - 134	4	15
Chlorobenzene	ND		100	90.2		ug/L		90	80 - 120	0	25
Chloroethane	ND		100	98.3		ug/L		98	69 - 136	5	15
Chloroform	ND		100	84.8		ug/L		85	73 - 127	0	20
Chloromethane	ND		100	84.9		ug/L		85	68 - 124	1	15
cis-1,2-Dichloroethene	ND		100	93.1		ug/L		93	74 - 124	5	15
cis-1,3-Dichloropropene	ND		100	81.1		ug/L		81	74 - 124	0	15
Cyclohexane	ND		100	87.6		ug/L		88	59 - 135	1	20
Dibromochloromethane	ND		100	86.4		ug/L		86	75 - 125	1	15
Dichlorodifluoromethane	ND		100	96.1		ug/L		96	59 - 135	2	20
Ethylbenzene	ND		100	89.6		ug/L		90	77 - 123	1	15
Isopropylbenzene	ND		100	91.3		ug/L		91	77 - 122	2	20
m,p-Xylene	ND		100	90.4		ug/L		90	76 - 122	1	16

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

Lab Sample ID: 480-172679-1 MSD
Client Sample ID: RI-MW-2
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 541833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl acetate	ND		200	168		ug/L		84	74 - 133	2	20
Methyl tert-butyl ether	ND		100	92.9		ug/L		93	77 - 120	3	37
Methylcyclohexane	ND		100	86.2		ug/L		86	68 - 134	1	20
Methylene Chloride	ND		100	86.5		ug/L		86	75 - 124	2	15
n-Butylbenzene	ND		100	84.6		ug/L		85	71 - 128	1	15
N-Propylbenzene	ND		100	89.1		ug/L		89	75 - 127	3	15
o-Xylene	ND		100	91.0		ug/L		91	76 - 122	2	16
sec-Butylbenzene	ND		100	89.1		ug/L		89	74 - 127	1	15
Styrene	ND		100	87.9		ug/L		88	80 - 120	1	20
tert-Butylbenzene	ND		100	91.8		ug/L		92	75 - 123	1	15
Tetrachloroethene	ND		100	87.3		ug/L		87	74 - 122	5	20
Toluene	ND		100	90.8		ug/L		91	80 - 122	0	15
trans-1,2-Dichloroethene	ND		100	88.9		ug/L		89	73 - 127	0	20
trans-1,3-Dichloropropene	ND	F1	100	78.3	F1	ug/L		78	80 - 120	3	15
Trichloroethene	6.8		100	94.4		ug/L		88	74 - 123	3	16
Trichlorofluoromethane	ND		100	96.0		ug/L		96	62 - 150	3	20
Vinyl chloride	ND		100	99.0		ug/L		99	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 480-541939/7
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 541939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/24/20 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/24/20 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/24/20 12:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/24/20 12:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/24/20 12:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/24/20 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 12:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/24/20 12:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/24/20 12:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/24/20 12:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/24/20 12:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/24/20 12:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/24/20 12:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/24/20 12:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/24/20 12:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/24/20 12:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/24/20 12:07	1
2-Hexanone	ND		5.0	1.2	ug/L			07/24/20 12:07	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/24/20 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/24/20 12:07	1

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

Lab Sample ID: MB 480-541939/7
Matrix: Water
Analysis Batch: 541939

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			07/24/20 12:07	1
Benzene	ND		1.0	0.41	ug/L			07/24/20 12:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/24/20 12:07	1
Bromoform	ND		1.0	0.26	ug/L			07/24/20 12:07	1
Bromomethane	ND		1.0	0.69	ug/L			07/24/20 12:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/24/20 12:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/24/20 12:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/24/20 12:07	1
Chloroethane	ND		1.0	0.32	ug/L			07/24/20 12:07	1
Chloroform	ND		1.0	0.34	ug/L			07/24/20 12:07	1
Chloromethane	ND		1.0	0.35	ug/L			07/24/20 12:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/24/20 12:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/24/20 12:07	1
Cyclohexane	ND		1.0	0.18	ug/L			07/24/20 12:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/24/20 12:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/24/20 12:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/24/20 12:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/24/20 12:07	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/24/20 12:07	1
Methyl acetate	ND		2.5	1.3	ug/L			07/24/20 12:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/24/20 12:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/24/20 12:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/24/20 12:07	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/24/20 12:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/24/20 12:07	1
o-Xylene	ND		1.0	0.76	ug/L			07/24/20 12:07	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/24/20 12:07	1
Styrene	ND		1.0	0.73	ug/L			07/24/20 12:07	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/24/20 12:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/24/20 12:07	1
Toluene	ND		1.0	0.51	ug/L			07/24/20 12:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/24/20 12:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/24/20 12:07	1
Trichloroethene	ND		1.0	0.46	ug/L			07/24/20 12:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/24/20 12:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/24/20 12:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/24/20 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*07/24/20 12:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/24/20 12:07*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/24/20 12:07*	*1*

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

Lab Sample ID: LCS 480-541939/5
Matrix: Water
Analysis Batch: 541939

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	24.2		ug/L		97	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	61 - 148
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	23.6		ug/L		95	66 - 127
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	25.5		ug/L		102	77 - 120
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	26.2		ug/L		105	76 - 120
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	77 - 121
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	114		ug/L		91	57 - 140
2-Hexanone	125	119		ug/L		95	65 - 127
4-Isopropyltoluene	25.0	25.4		ug/L		102	73 - 120
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	114		ug/L		91	56 - 142
Benzene	25.0	25.4		ug/L		102	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		103	80 - 122
Bromoform	25.0	23.7		ug/L		95	61 - 132
Bromomethane	25.0	22.0		ug/L		88	55 - 144
Carbon disulfide	25.0	23.1		ug/L		92	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	24.4		ug/L		97	80 - 120
Chloroethane	25.0	23.7		ug/L		95	69 - 136
Chloroform	25.0	23.5		ug/L		94	73 - 127
Chloromethane	25.0	22.3		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	74 - 124
Cyclohexane	25.0	24.3		ug/L		97	59 - 135
Dibromochloromethane	25.0	25.3		ug/L		101	75 - 125
Dichlorodifluoromethane	25.0	23.5		ug/L		94	59 - 135
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Isopropylbenzene	25.0	25.4		ug/L		102	77 - 122
m,p-Xylene	25.0	24.7		ug/L		99	76 - 122
Methyl acetate	50.0	47.8		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	25.7		ug/L		103	77 - 120
Methylcyclohexane	25.0	25.5		ug/L		102	68 - 134
Methylene Chloride	25.0	22.7		ug/L		91	75 - 124
n-Butylbenzene	25.0	25.1		ug/L		100	71 - 128
N-Propylbenzene	25.0	25.1		ug/L		100	75 - 127
o-Xylene	25.0	24.8		ug/L		99	76 - 122
sec-Butylbenzene	25.0	25.2		ug/L		101	74 - 127
Styrene	25.0	24.5		ug/L		98	80 - 120

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Lab Sample ID: LCS 480-541939/5
Matrix: Water
Analysis Batch: 541939

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	25.0	26.4		ug/L		105	75 - 123
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	24.4		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	80 - 120
Trichloroethene	25.0	25.0		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	24.7		ug/L		99	62 - 150
Vinyl chloride	25.0	23.8		ug/L		95	65 - 133

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

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

GC/MS VOA

Analysis Batch: 541833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172679-1	RI-MW-2	Total/NA	Water	8260C	
480-172679-2	RI-MW-4	Total/NA	Water	8260C	
480-172679-3	RI-MW-6	Total/NA	Water	8260C	
480-172679-4	RI-MW-9	Total/NA	Water	8260C	
480-172679-5	RI-MW-10	Total/NA	Water	8260C	
480-172679-6	RI-MW-11	Total/NA	Water	8260C	
480-172679-7	RI-MW-12	Total/NA	Water	8260C	
480-172679-8	TRIP BLANK	Total/NA	Water	8260C	
MB 480-541833/9	Method Blank	Total/NA	Water	8260C	
LCS 480-541833/6	Lab Control Sample	Total/NA	Water	8260C	
480-172679-1 MS	RI-MW-2	Total/NA	Water	8260C	
480-172679-1 MSD	RI-MW-2	Total/NA	Water	8260C	

Analysis Batch: 541939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172679-2 - DL	RI-MW-4	Total/NA	Water	8260C	
MB 480-541939/7	Method Blank	Total/NA	Water	8260C	
LCS 480-541939/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2
Lab Sample ID: 480-172679-1
Date Collected: 07/21/20 09:05
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	541833	07/24/20 02:59	CRL	TAL BUF

Client Sample ID: RI-MW-4
Lab Sample ID: 480-172679-2
Date Collected: 07/21/20 13:14
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	541833	07/24/20 03:22	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	4	541939	07/24/20 13:19	CRL	TAL BUF

Client Sample ID: RI-MW-6
Lab Sample ID: 480-172679-3
Date Collected: 07/21/20 14:09
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	541833	07/24/20 03:45	CRL	TAL BUF

Client Sample ID: RI-MW-9
Lab Sample ID: 480-172679-4
Date Collected: 07/21/20 11:33
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541833	07/24/20 04:08	CRL	TAL BUF

Client Sample ID: RI-MW-10
Lab Sample ID: 480-172679-5
Date Collected: 07/21/20 10:02
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541833	07/24/20 04:31	CRL	TAL BUF

Client Sample ID: RI-MW-11
Lab Sample ID: 480-172679-6
Date Collected: 07/21/20 11:52
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	541833	07/24/20 04:54	CRL	TAL BUF

Client Sample ID: RI-MW-12
Lab Sample ID: 480-172679-7
Date Collected: 07/21/20 15:25
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	541833	07/24/20 05:17	CRL	TAL BUF

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-172679-8
Date Collected: 07/21/20 00:00
Matrix: Water
Date Received: 07/22/20 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541833	07/24/20 05:40	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

Method Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-172679-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-172679-1	RI-MW-2	Water	07/21/20 09:05	07/22/20 11:40	
480-172679-2	RI-MW-4	Water	07/21/20 13:14	07/22/20 11:40	
480-172679-3	RI-MW-6	Water	07/21/20 14:09	07/22/20 11:40	
480-172679-4	RI-MW-9	Water	07/21/20 11:33	07/22/20 11:40	
480-172679-5	RI-MW-10	Water	07/21/20 10:02	07/22/20 11:40	
480-172679-6	RI-MW-11	Water	07/21/20 11:52	07/22/20 11:40	
480-172679-7	RI-MW-12	Water	07/21/20 15:25	07/22/20 11:40	
480-172679-8	TRIP BLANK	Water	07/21/20 00:00	07/22/20 11:40	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Tom Belvedere	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-148237-32966.1
Client Contact: Mr. Christopher Boron	Phone:	E-Mail: Brian.Fischer@Eurofinset.com		Page: Page 1 of 1
Company: Turnkey Environmental Restoration, LLC				Job #:

Address: 2558 Hamburg Turnpike	Due Date Requested:
City: Lackawanna	TAT Requested (days): standard
State, Zip: NY, 14218	
Phone: 716-856-0635(Tel) 716-856-0583(Fax)	PO #: B0092-016-002
Email: cboron@benchmarkturnkey.com	WO #:
Project Name: Benchmark-791 Washington St.(Trico site)	Project #: 48013685
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3

480-172679 Chain of Custody

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 Nu	Special Instructions/Note:
			Preservation Code:				A		
RI-MW-2	7/21/20	905	grab	Water			X	3	
RI-MW-4		1314		Water			X	3	
RI-MW-6		1409		Water			X	3	
RI-MW-9		1133		Water			X	3	
RI-MW-10		1002		Water			X	3	
RI-MW-11		1152		Water			X	3	
RI-MW-12		1529		Water			X	3	
Trip Blank				Water			X	2	
				Water					
				Water					

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 Belvedere	7/21/20 850			7/22/20 9:50	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/22/20 11:40	TAL		7/22/20 1140	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-172679-1

Login Number: 172679

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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	TURNKEY
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Fiesmer Trico Plant

Project No.: B0092-016-002

Client: Buffalo NY

Date: 7/21/20

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	830	Myron L Company Ultra Meter 6P	☒ 6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973	JAB	4.00	4.01	4
						7.00	7.02	7
						10.01	10.01	10
☒ Turbidity meter	NTU	830	Hach 2100P or 2100Q Turbidimeter	☐ 06120C020523 (P) ☐ 13120C030432 (Q) ☒ 17110C062619 (Q)	JAB	10 NTU verification	10.3	10.0
						< 0.4		
						20		
						100		
						800		
☒ Sp. Cond. meter	uS mS		Myron L Company Ultra Meter 6P	☒ 6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☐ 6223973	JAB	7.10 mS @ 25 °C	7,006	7,000
☐ PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
☒ Dissolved Oxygen	ppm	830	HACH Model HQ30d	☐ 080700023281 ☐ 100500041867 ☒ 140200100319	JAB	100% Satuartion	✓	102.4% slop
☐ Particulate meter	mg/m³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: [signature] **DATE:** 7/21/20

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Trico Plant Date: 7/21/20

Location: Buffalo NY Project No.: B0092-016-002 Field Team: TJB

Well No. RI-MW-4			Diameter (inches): 1"			Sample Date / Time: 7/21/20 1314			
Product Depth (fbTOR): —			Water Column (ft): 7.55			DTW when sampled: 2.50			
DTW (static) (fbTOR): 0.28			One Well Volume (gal): 0.3			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 7.83			Total Volume Purged (gal): 0.50			Purge Method: Bailer			
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								
1246	1 4.10	0.30	7.09	16.5	3626	>1000	1.09	-129	Slight Sheen No Odor
1254	2 DRY	0.50	7.12	15.0	3745	"	1.66	-125	"
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1314	S1 2.50	—	7.07	15.5	3741	"	1.48	-100.7	"
	S2								

Well No. RI-MW-6			Diameter (inches): 2"			Sample Date / Time: 7/21/20 1409			
Product Depth (fbTOR): —			Water Column (ft): 14.5			DTW when sampled: 11.21			
DTW (static) (fbTOR): 1.43			One Well Volume (gal): 2.36			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 15.93			Total Volume Purged (gal): 7.0			Purge Method: Low Flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1333	0 Initial	>0.25	7.20	14.0	1538	654	1.46	-114	Brn Turbid
1344	1 7.52	2.25	7.53	14.5	1891	264	1.12	-107	"
1354	2 9.95	4.50	7.51	12.8	1738	163	1.01	-106	"
1405	3 11.51	7.0	7.52	12.4	2032	653	0.97	-117	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1409	S1 11.21	—	7.55	12.2	1914	143	1.71	-111	"
	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: TJB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Trico Plant Date: 7/21/20

Location: Buffalo NY Project No.: B0092-016-002 Field Team: TAS

Well No. RI-MW-9	Diameter (inches): 2"	Sample Date / Time: 7/21/20 1133
Product Depth (fbTOR): –	Water Column (ft): 12.67	DTW when sampled: 1421
DTW (static) (fbTOR): 3.50	One Well Volume (gal): 2.0	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 16.17	Total Volume Purged (gal): 5.0	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1029	0	Initial	20.25	7.25	15.2	1724	182	0.18	-245	gray/tan odor
1032	1	9.60	2.0	7.17	18.1	1609	129	0.14	-287	"
1047	2	12.95	4.0	7.26	17.2	1718	55.2	0.18	-276	"
1100	3	DRY	5.0	7.20	19.1	1934	64.8	0.52	-232	"
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1133	S1	1421	–	7.24	16.0	1840	401	0.91	-174	"
	S2									

Well No. RI-MW-11	Diameter (inches): 2"	Sample Date / Time: 7/21/20 1152
Product Depth (fbTOR): –	Water Column (ft): 23.02	DTW when sampled:
DTW (static) (fbTOR): 12.68	One Well Volume (gal): 3.75	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 35.70	Total Volume Purged (gal): 11.0	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1112	0	Initial	26.25	7.53	17.0	2021	22.5	0.09	-212	SL turbid SC gray/tan
1124	1	28.0	3.75	7.56	18.7	1996	83.4	0.39	-188	"
1129	2	DRY	4.0	7.58	17.2	1991	25.8	0.52	-183	"
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1152	S1	26.81	–	7.44	18.1	2002	69.6	0.49	-143	"
	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: TAS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Trico Plant Date: 7/21/20

Location: Buffalo NY Project No.: B0092-016-002 Field Team: TAB

Well No. RI-MW-2			Diameter (inches): 2"			Sample Date / Time: 7/21/20			905
Product Depth (fbTOR): -			Water Column (ft): 5.15			DTW when sampled: 14.40			
DTW (static) (fbTOR): 11.13			One Well Volume (gal): 0.83			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 16.28			Total Volume Purged (gal): 2.50			Purge Method: Low-Flow			

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
845	0 Initial	0.25	6.73	15.5	6617	55.1	2.07	242	SC Turbid No Odor
850	1 13.78	0.75	7.32	12.5	5817	48.6	2.44	214	"
856	2 14.09	1.25	7.37	12.9	6009	32.9	2.21	208	"
900	3 14.29	2.50	7.31	11.5	6803	37.8	1.25	204	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
905	S1 14.40	-	7.30	13.1	6789	60.5	1.48	196	"
	S2								

Well No. RI-MW-10			Diameter (inches): 2"			Sample Date / Time: 7/21/20			1002
Product Depth (fbTOR): ~~3.30~~			Water Column (ft): 12.87			DTW when sampled: 11.60			
DTW (static) (fbTOR): 3.30			One Well Volume (gal): 1.75			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 16.17			Total Volume Purged (gal): 5.25			Purge Method: Low Flow			

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
942	0 Initial	0.25	7.53	14.2	1259	51.0	1.72	185	SC Turbid No Odor
944	1 6.60	1.0	7.56	14.3	10961	47.0	1.48	175	"
949	2 7.32	1.75	7.50	14.2	1142	23.3	1.28	168	"
953	3 8.80	3.5	7.46	13.8	1200	31.3	1.07	182	"
1000	4 10.20	5.25	7.44	13.0	1225	87.7	1.02	191	
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1002	S1 11.60	-	7.44	13.0	1262	34.5	1.10	176	
	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: TAB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Trico Plant Date: 7/21/20

Location: Buffalo NY Project No. 30042-016-002 Field Team: TAB

Well No. MW-12			Diameter (inches): 2"			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft): 18.92			DTW when sampled:			
DTW (static) (fbTOR): 18.71			One Well Volume (gal): 3.08			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 37.63			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
1431	0 Initial	<0.25	7.40	14.8	5770	278	1.39	-92	Slt. Brn odor
1436	1 24.0	1.25	7.41	14.7	5791	108	1.34	-96	"
1445	2 31.82	3.25	7.44	14.9	5791	79.1	1.07	-101	"
1453	3 DRY	4.50	7.41	15.9	5942	71.2	1.45	-85	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1529	S1 30.91	-	7.41	15.4	6106	93.0	1.69	-85	"
	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: TAB

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-178540-1
Client Project/Site: Benchmark-791 Washington St.(Trico site)

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Mr. Christopher Z Boron

Authorized for release by:
11/27/2020 12:20:44 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Qualifiers

GC/MS VOA

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

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: 480-178540-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-178540-1

Comments
No additional comments.

Receipt
The samples were received on 11/20/2020 3:26 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: RI-MW-2 (480-178540-1), RI-MW-4 (480-178540-2), RI-MW-6 (480-178540-3) and RI-MW-9 (480-178540-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: RI-MW-4 (480-178540-2). Sample pH is 7.

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

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2 — Lab Sample ID: 480-178540-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	7.8		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: RI-MW-4 — Lab Sample ID: 480-178540-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	40	12	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	34		4.0	3.2	ug/L	4		8260C	Total/NA
Methyl tert-butyl ether	2.1	J	4.0	0.64	ug/L	4		8260C	Total/NA
trans-1,2-Dichloroethene	54		4.0	3.6	ug/L	4		8260C	Total/NA
Vinyl chloride	17		4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: RI-MW-6 — Lab Sample ID: 480-178540-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5		2.0	1.6	ug/L	2		8260C	Total/NA

Client Sample ID: RI-MW-9 — Lab Sample ID: 480-178540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	28	J	40	12	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	4.1		4.0	3.2	ug/L	4		8260C	Total/NA

Client Sample ID: RI-MW-10 — Lab Sample ID: 480-178540-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-178540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.5		1.0	0.34	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2
Lab Sample ID: 480-178540-1
Date Collected: 11/20/20 08:52
Matrix: Water
Date Received: 11/20/20 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			11/24/20 14:02	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			11/24/20 14:02	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			11/24/20 14:02	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			11/24/20 14:02	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			11/24/20 14:02	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			11/24/20 14:02	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			11/24/20 14:02	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			11/24/20 14:02	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			11/24/20 14:02	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			11/24/20 14:02	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			11/24/20 14:02	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			11/24/20 14:02	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			11/24/20 14:02	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			11/24/20 14:02	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			11/24/20 14:02	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			11/24/20 14:02	4
2-Butanone (MEK)	ND		40	5.3	ug/L			11/24/20 14:02	4
2-Hexanone	ND		20	5.0	ug/L			11/24/20 14:02	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			11/24/20 14:02	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			11/24/20 14:02	4
Acetone	ND		40	12	ug/L			11/24/20 14:02	4
Benzene	ND		4.0	1.6	ug/L			11/24/20 14:02	4
Bromodichloromethane	ND		4.0	1.6	ug/L			11/24/20 14:02	4
Bromoform	ND		4.0	1.0	ug/L			11/24/20 14:02	4
Bromomethane	ND		4.0	2.8	ug/L			11/24/20 14:02	4
Carbon disulfide	ND		4.0	0.76	ug/L			11/24/20 14:02	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			11/24/20 14:02	4
Chlorobenzene	ND		4.0	3.0	ug/L			11/24/20 14:02	4
Chloroethane	ND		4.0	1.3	ug/L			11/24/20 14:02	4
Chloroform	ND		4.0	1.4	ug/L			11/24/20 14:02	4
Chloromethane	ND		4.0	1.4	ug/L			11/24/20 14:02	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			11/24/20 14:02	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			11/24/20 14:02	4
Cyclohexane	ND		4.0	0.72	ug/L			11/24/20 14:02	4
Dibromochloromethane	ND		4.0	1.3	ug/L			11/24/20 14:02	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			11/24/20 14:02	4
Ethylbenzene	ND		4.0	3.0	ug/L			11/24/20 14:02	4
Isopropylbenzene	ND		4.0	3.2	ug/L			11/24/20 14:02	4
m,p-Xylene	ND		8.0	2.6	ug/L			11/24/20 14:02	4
Methyl acetate	ND		10	5.2	ug/L			11/24/20 14:02	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			11/24/20 14:02	4
Methylcyclohexane	ND		4.0	0.64	ug/L			11/24/20 14:02	4
Methylene Chloride	ND		4.0	1.8	ug/L			11/24/20 14:02	4
n-Butylbenzene	ND		4.0	2.6	ug/L			11/24/20 14:02	4
N-Propylbenzene	ND		4.0	2.8	ug/L			11/24/20 14:02	4
o-Xylene	ND		4.0	3.0	ug/L			11/24/20 14:02	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			11/24/20 14:02	4
Styrene	ND		4.0	2.9	ug/L			11/24/20 14:02	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			11/24/20 14:02	4

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2
Lab Sample ID: 480-178540-1
Date Collected: 11/20/20 08:52
Matrix: Water
Date Received: 11/20/20 15:26

Method: 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			11/24/20 14:02	4
Toluene	ND		4.0	2.0	ug/L			11/24/20 14:02	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			11/24/20 14:02	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			11/24/20 14:02	4
Trichloroethene	**7.8**		4.0	1.8	ug/L			11/24/20 14:02	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			11/24/20 14:02	4
Vinyl chloride	ND		4.0	3.6	ug/L			11/24/20 14:02	4
Xylenes, Total	ND		8.0	2.6	ug/L			11/24/20 14:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/24/20 14:02*	*4*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*11/24/20 14:02*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/24/20 14:02*	*4*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-4
Lab Sample ID: 480-178540-2
Date Collected: 11/20/20 12:12
Matrix: Water
Date Received: 11/20/20 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			11/24/20 14:25	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			11/24/20 14:25	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			11/24/20 14:25	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			11/24/20 14:25	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			11/24/20 14:25	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			11/24/20 14:25	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			11/24/20 14:25	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			11/24/20 14:25	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			11/24/20 14:25	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			11/24/20 14:25	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			11/24/20 14:25	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			11/24/20 14:25	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			11/24/20 14:25	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			11/24/20 14:25	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			11/24/20 14:25	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			11/24/20 14:25	4
2-Butanone (MEK)	ND		40	5.3	ug/L			11/24/20 14:25	4
2-Hexanone	ND		20	5.0	ug/L			11/24/20 14:25	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			11/24/20 14:25	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			11/24/20 14:25	4
Acetone	**13**	**J**	40	12	ug/L			11/24/20 14:25	4
Benzene	ND		4.0	1.6	ug/L			11/24/20 14:25	4
Bromodichloromethane	ND		4.0	1.6	ug/L			11/24/20 14:25	4
Bromoform	ND		4.0	1.0	ug/L			11/24/20 14:25	4
Bromomethane	ND		4.0	2.8	ug/L			11/24/20 14:25	4
Carbon disulfide	ND		4.0	0.76	ug/L			11/24/20 14:25	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			11/24/20 14:25	4
Chlorobenzene	ND		4.0	3.0	ug/L			11/24/20 14:25	4
Chloroethane	ND		4.0	1.3	ug/L			11/24/20 14:25	4
Chloroform	ND		4.0	1.4	ug/L			11/24/20 14:25	4
Chloromethane	ND		4.0	1.4	ug/L			11/24/20 14:25	4
cis-1,2-Dichloroethene	**34**		4.0	3.2	ug/L			11/24/20 14:25	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			11/24/20 14:25	4
Cyclohexane	ND		4.0	0.72	ug/L			11/24/20 14:25	4
Dibromochloromethane	ND		4.0	1.3	ug/L			11/24/20 14:25	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			11/24/20 14:25	4
Ethylbenzene	ND		4.0	3.0	ug/L			11/24/20 14:25	4
Isopropylbenzene	ND		4.0	3.2	ug/L			11/24/20 14:25	4
m,p-Xylene	ND		8.0	2.6	ug/L			11/24/20 14:25	4
Methyl acetate	ND		10	5.2	ug/L			11/24/20 14:25	4
Methyl tert-butyl ether	**2.1**	**J**	4.0	0.64	ug/L			11/24/20 14:25	4
Methylcyclohexane	ND		4.0	0.64	ug/L			11/24/20 14:25	4
Methylene Chloride	ND		4.0	1.8	ug/L			11/24/20 14:25	4
n-Butylbenzene	ND		4.0	2.6	ug/L			11/24/20 14:25	4
N-Propylbenzene	ND		4.0	2.8	ug/L			11/24/20 14:25	4
o-Xylene	ND		4.0	3.0	ug/L			11/24/20 14:25	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			11/24/20 14:25	4
Styrene	ND		4.0	2.9	ug/L			11/24/20 14:25	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			11/24/20 14:25	4

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-4
Lab Sample ID: 480-178540-2
Date Collected: 11/20/20 12:12
Matrix: Water
Date Received: 11/20/20 15:26

Method: 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			11/24/20 14:25	4
Toluene	ND		4.0	2.0	ug/L			11/24/20 14:25	4
trans-1,2-Dichloroethene	**54**		4.0	3.6	ug/L			11/24/20 14:25	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			11/24/20 14:25	4
Trichloroethene	ND		4.0	1.8	ug/L			11/24/20 14:25	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			11/24/20 14:25	4
Vinyl chloride	**17**		4.0	3.6	ug/L			11/24/20 14:25	4
Xylenes, Total	ND		8.0	2.6	ug/L			11/24/20 14:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/24/20 14:25*	*4*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*11/24/20 14:25*	*4*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/24/20 14:25*	*4*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-6
Lab Sample ID: 480-178540-3
Date Collected: 11/20/20 13:36
Matrix: Water
Date Received: 11/20/20 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			11/24/20 14:48	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			11/24/20 14:48	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			11/24/20 14:48	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			11/24/20 14:48	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			11/24/20 14:48	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			11/24/20 14:48	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			11/24/20 14:48	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			11/24/20 14:48	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			11/24/20 14:48	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			11/24/20 14:48	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			11/24/20 14:48	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			11/24/20 14:48	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			11/24/20 14:48	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			11/24/20 14:48	2
2-Butanone (MEK)	ND		20	2.6	ug/L			11/24/20 14:48	2
2-Hexanone	ND		10	2.5	ug/L			11/24/20 14:48	2
4-Isopropyltoluene	ND		2.0	0.62	ug/L			11/24/20 14:48	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			11/24/20 14:48	2
Acetone	ND		20	6.0	ug/L			11/24/20 14:48	2
Benzene	ND		2.0	0.82	ug/L			11/24/20 14:48	2
Bromodichloromethane	ND		2.0	0.78	ug/L			11/24/20 14:48	2
Bromoform	ND		2.0	0.52	ug/L			11/24/20 14:48	2
Bromomethane	ND		2.0	1.4	ug/L			11/24/20 14:48	2
Carbon disulfide	ND		2.0	0.38	ug/L			11/24/20 14:48	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			11/24/20 14:48	2
Chlorobenzene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
Chloroethane	ND		2.0	0.64	ug/L			11/24/20 14:48	2
Chloroform	ND		2.0	0.68	ug/L			11/24/20 14:48	2
Chloromethane	ND		2.0	0.70	ug/L			11/24/20 14:48	2
cis-1,2-Dichloroethene	**3.5**		2.0	1.6	ug/L			11/24/20 14:48	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			11/24/20 14:48	2
Cyclohexane	ND		2.0	0.36	ug/L			11/24/20 14:48	2
Dibromochloromethane	ND		2.0	0.64	ug/L			11/24/20 14:48	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			11/24/20 14:48	2
Ethylbenzene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
Isopropylbenzene	ND		2.0	1.6	ug/L			11/24/20 14:48	2
m,p-Xylene	ND		4.0	1.3	ug/L			11/24/20 14:48	2
Methyl acetate	ND		5.0	2.6	ug/L			11/24/20 14:48	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			11/24/20 14:48	2
Methylcyclohexane	ND		2.0	0.32	ug/L			11/24/20 14:48	2
Methylene Chloride	ND		2.0	0.88	ug/L			11/24/20 14:48	2
n-Butylbenzene	ND		2.0	1.3	ug/L			11/24/20 14:48	2
N-Propylbenzene	ND		2.0	1.4	ug/L			11/24/20 14:48	2
o-Xylene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
Styrene	ND		2.0	1.5	ug/L			11/24/20 14:48	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			11/24/20 14:48	2

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-6
Lab Sample ID: 480-178540-3
Date Collected: 11/20/20 13:36
Matrix: Water
Date Received: 11/20/20 15:26

Method: 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			11/24/20 14:48	2
Toluene	ND		2.0	1.0	ug/L			11/24/20 14:48	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			11/24/20 14:48	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			11/24/20 14:48	2
Trichloroethene	ND		2.0	0.92	ug/L			11/24/20 14:48	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			11/24/20 14:48	2
Vinyl chloride	ND		2.0	1.8	ug/L			11/24/20 14:48	2
Xylenes, Total	ND		4.0	1.3	ug/L			11/24/20 14:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*11/24/20 14:48*	*2*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/24/20 14:48*	*2*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/24/20 14:48*	*2*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-9
Lab Sample ID: 480-178540-4
Date Collected: 11/20/20 13:15
Matrix: Water
Date Received: 11/20/20 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			11/24/20 15:11	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			11/24/20 15:11	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			11/24/20 15:11	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			11/24/20 15:11	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			11/24/20 15:11	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			11/24/20 15:11	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			11/24/20 15:11	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			11/24/20 15:11	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			11/24/20 15:11	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			11/24/20 15:11	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			11/24/20 15:11	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			11/24/20 15:11	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			11/24/20 15:11	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			11/24/20 15:11	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			11/24/20 15:11	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			11/24/20 15:11	4
2-Butanone (MEK)	ND		40	5.3	ug/L			11/24/20 15:11	4
2-Hexanone	ND		20	5.0	ug/L			11/24/20 15:11	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			11/24/20 15:11	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			11/24/20 15:11	4
Acetone	**28**	**J**	40	12	ug/L			11/24/20 15:11	4
Benzene	ND		4.0	1.6	ug/L			11/24/20 15:11	4
Bromodichloromethane	ND		4.0	1.6	ug/L			11/24/20 15:11	4
Bromoform	ND		4.0	1.0	ug/L			11/24/20 15:11	4
Bromomethane	ND		4.0	2.8	ug/L			11/24/20 15:11	4
Carbon disulfide	ND		4.0	0.76	ug/L			11/24/20 15:11	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			11/24/20 15:11	4
Chlorobenzene	ND		4.0	3.0	ug/L			11/24/20 15:11	4
Chloroethane	ND		4.0	1.3	ug/L			11/24/20 15:11	4
Chloroform	ND		4.0	1.4	ug/L			11/24/20 15:11	4
Chloromethane	ND		4.0	1.4	ug/L			11/24/20 15:11	4
cis-1,2-Dichloroethene	**4.1**		4.0	3.2	ug/L			11/24/20 15:11	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			11/24/20 15:11	4
Cyclohexane	ND		4.0	0.72	ug/L			11/24/20 15:11	4
Dibromochloromethane	ND		4.0	1.3	ug/L			11/24/20 15:11	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			11/24/20 15:11	4
Ethylbenzene	ND		4.0	3.0	ug/L			11/24/20 15:11	4
Isopropylbenzene	ND		4.0	3.2	ug/L			11/24/20 15:11	4
m,p-Xylene	ND		8.0	2.6	ug/L			11/24/20 15:11	4
Methyl acetate	ND		10	5.2	ug/L			11/24/20 15:11	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			11/24/20 15:11	4
Methylcyclohexane	ND		4.0	0.64	ug/L			11/24/20 15:11	4
Methylene Chloride	ND		4.0	1.8	ug/L			11/24/20 15:11	4
n-Butylbenzene	ND		4.0	2.6	ug/L			11/24/20 15:11	4
N-Propylbenzene	ND		4.0	2.8	ug/L			11/24/20 15:11	4
o-Xylene	ND		4.0	3.0	ug/L			11/24/20 15:11	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			11/24/20 15:11	4
Styrene	ND		4.0	2.9	ug/L			11/24/20 15:11	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			11/24/20 15:11	4

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-9
Lab Sample ID: 480-178540-4
Date Collected: 11/20/20 13:15
Matrix: Water
Date Received: 11/20/20 15:26

Method: 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			11/24/20 15:11	4
Toluene	ND		4.0	2.0	ug/L			11/24/20 15:11	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			11/24/20 15:11	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			11/24/20 15:11	4
Trichloroethene	ND		4.0	1.8	ug/L			11/24/20 15:11	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			11/24/20 15:11	4
Vinyl chloride	ND		4.0	3.6	ug/L			11/24/20 15:11	4
Xylenes, Total	ND		8.0	2.6	ug/L			11/24/20 15:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*11/24/20 15:11*	*4*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*11/24/20 15:11*	*4*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/24/20 15:11*	*4*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-10
Lab Sample ID: 480-178540-5
Date Collected: 11/20/20 10:06
Matrix: Water
Date Received: 11/20/20 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/24/20 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/24/20 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/24/20 15:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/24/20 15:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/24/20 15:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/24/20 15:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/24/20 15:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			11/24/20 15:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/24/20 15:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/24/20 15:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/24/20 15:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/24/20 15:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/24/20 15:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			11/24/20 15:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/24/20 15:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/24/20 15:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/24/20 15:34	1
2-Hexanone	ND		5.0	1.2	ug/L			11/24/20 15:34	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			11/24/20 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/24/20 15:34	1
Acetone	ND		10	3.0	ug/L			11/24/20 15:34	1
Benzene	ND		1.0	0.41	ug/L			11/24/20 15:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/24/20 15:34	1
Bromoform	ND		1.0	0.26	ug/L			11/24/20 15:34	1
Bromomethane	ND		1.0	0.69	ug/L			11/24/20 15:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/24/20 15:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/24/20 15:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/24/20 15:34	1
Chloroethane	ND		1.0	0.32	ug/L			11/24/20 15:34	1
Chloroform	ND		1.0	0.34	ug/L			11/24/20 15:34	1
Chloromethane	ND		1.0	0.35	ug/L			11/24/20 15:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/24/20 15:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/24/20 15:34	1
Cyclohexane	ND		1.0	0.18	ug/L			11/24/20 15:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/24/20 15:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/24/20 15:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/24/20 15:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/24/20 15:34	1
m,p-Xylene	ND		2.0	0.66	ug/L			11/24/20 15:34	1
Methyl acetate	ND		2.5	1.3	ug/L			11/24/20 15:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/24/20 15:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/24/20 15:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/24/20 15:34	1
n-Butylbenzene	ND		1.0	0.64	ug/L			11/24/20 15:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			11/24/20 15:34	1
o-Xylene	ND		1.0	0.76	ug/L			11/24/20 15:34	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			11/24/20 15:34	1
Styrene	ND		1.0	0.73	ug/L			11/24/20 15:34	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			11/24/20 15:34	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-10
Lab Sample ID: 480-178540-5
Date Collected: 11/20/20 10:06
Matrix: Water
Date Received: 11/20/20 15:26

Method: 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			11/24/20 15:34	1
Toluene	ND		1.0	0.51	ug/L			11/24/20 15:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/24/20 15:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/24/20 15:34	1
Trichloroethene	**3.2**		1.0	0.46	ug/L			11/24/20 15:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/24/20 15:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/24/20 15:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/24/20 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*11/24/20 15:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/24/20 15:34*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/24/20 15:34*	*1*

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: Trip Blank
Lab Sample ID: 480-178540-6
Date Collected: 11/20/20 00:00
Matrix: Water
Date Received: 11/20/20 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/24/20 15:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/24/20 15:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/24/20 15:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/24/20 15:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/24/20 15:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/24/20 15:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/24/20 15:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			11/24/20 15:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/24/20 15:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/24/20 15:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/24/20 15:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/24/20 15:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/24/20 15:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			11/24/20 15:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/24/20 15:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/24/20 15:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/24/20 15:58	1
2-Hexanone	ND		5.0	1.2	ug/L			11/24/20 15:58	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			11/24/20 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/24/20 15:58	1
Acetone	ND		10	3.0	ug/L			11/24/20 15:58	1
Benzene	ND		1.0	0.41	ug/L			11/24/20 15:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/24/20 15:58	1
Bromoform	ND		1.0	0.26	ug/L			11/24/20 15:58	1
Bromomethane	ND		1.0	0.69	ug/L			11/24/20 15:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/24/20 15:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/24/20 15:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/24/20 15:58	1
Chloroethane	ND		1.0	0.32	ug/L			11/24/20 15:58	1
Chloroform	**1.5**		1.0	0.34	ug/L			11/24/20 15:58	1
Chloromethane	ND		1.0	0.35	ug/L			11/24/20 15:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/24/20 15:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/24/20 15:58	1
Cyclohexane	ND		1.0	0.18	ug/L			11/24/20 15:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/24/20 15:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/24/20 15:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/24/20 15:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/24/20 15:58	1
m,p-Xylene	ND		2.0	0.66	ug/L			11/24/20 15:58	1
Methyl acetate	ND		2.5	1.3	ug/L			11/24/20 15:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/24/20 15:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/24/20 15:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/24/20 15:58	1
n-Butylbenzene	ND		1.0	0.64	ug/L			11/24/20 15:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			11/24/20 15:58	1
o-Xylene	ND		1.0	0.76	ug/L			11/24/20 15:58	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			11/24/20 15:58	1
Styrene	ND		1.0	0.73	ug/L			11/24/20 15:58	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			11/24/20 15:58	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: Trip Blank
Lab Sample ID: 480-178540-6
Date Collected: 11/20/20 00:00
Matrix: Water
Date Received: 11/20/20 15:26

Method: 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			11/24/20 15:58	1
Toluene	ND		1.0	0.51	ug/L			11/24/20 15:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/24/20 15:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/24/20 15:58	1
Trichloroethene	ND		1.0	0.46	ug/L			11/24/20 15:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/24/20 15:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/24/20 15:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/24/20 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*11/24/20 15:58*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*11/24/20 15:58*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/24/20 15:58*	*1*

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
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)
480-178540-1	RI-MW-2	100	102	101
480-178540-2	RI-MW-4	107	92	97
480-178540-3	RI-MW-6	115	95	98
480-178540-4	RI-MW-9	106	97	99
480-178540-5	RI-MW-10	111	101	103
480-178540-6	Trip Blank	115	94	96
LCS 480-560615/5	Lab Control Sample	100	100	100
MB 480-560615/7	Method Blank	107	96	98

Surrogate Legend

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

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Lab Sample ID: MB 480-560615/7
Matrix: Water
Analysis Batch: 560615

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/24/20 09:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/24/20 09:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/24/20 09:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/24/20 09:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/24/20 09:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/24/20 09:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/24/20 09:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			11/24/20 09:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/24/20 09:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/24/20 09:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/24/20 09:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/24/20 09:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/24/20 09:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			11/24/20 09:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/24/20 09:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/24/20 09:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/24/20 09:00	1
2-Hexanone	ND		5.0	1.2	ug/L			11/24/20 09:00	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			11/24/20 09:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/24/20 09:00	1
Acetone	ND		10	3.0	ug/L			11/24/20 09:00	1
Benzene	ND		1.0	0.41	ug/L			11/24/20 09:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/24/20 09:00	1
Bromoform	ND		1.0	0.26	ug/L			11/24/20 09:00	1
Bromomethane	ND		1.0	0.69	ug/L			11/24/20 09:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/24/20 09:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/24/20 09:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/24/20 09:00	1
Chloroethane	ND		1.0	0.32	ug/L			11/24/20 09:00	1
Chloroform	ND		1.0	0.34	ug/L			11/24/20 09:00	1
Chloromethane	ND		1.0	0.35	ug/L			11/24/20 09:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/24/20 09:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/24/20 09:00	1
Cyclohexane	ND		1.0	0.18	ug/L			11/24/20 09:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/24/20 09:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/24/20 09:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/24/20 09:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/24/20 09:00	1
m,p-Xylene	ND		2.0	0.66	ug/L			11/24/20 09:00	1
Methyl acetate	ND		2.5	1.3	ug/L			11/24/20 09:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/24/20 09:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/24/20 09:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/24/20 09:00	1
n-Butylbenzene	ND		1.0	0.64	ug/L			11/24/20 09:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			11/24/20 09:00	1
o-Xylene	ND		1.0	0.76	ug/L			11/24/20 09:00	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			11/24/20 09:00	1
Styrene	ND		1.0	0.73	ug/L			11/24/20 09:00	1

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

Lab Sample ID: MB 480-560615/7
Matrix: Water
Analysis Batch: 560615

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			11/24/20 09:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/24/20 09:00	1
Toluene	ND		1.0	0.51	ug/L			11/24/20 09:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/24/20 09:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/24/20 09:00	1
Trichloroethene	ND		1.0	0.46	ug/L			11/24/20 09:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/24/20 09:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/24/20 09:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/24/20 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/24/20 09:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*11/24/20 09:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/24/20 09:00*	*1*

Lab Sample ID: LCS 480-560615/5
Matrix: Water
Analysis Batch: 560615

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	24.9		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	23.9		ug/L		96	61 - 148
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	23.9		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	79 - 122
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	25.4		ug/L		101	76 - 120
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	77 - 121
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	148		ug/L		119	57 - 140
2-Hexanone	125	134		ug/L		107	65 - 127
4-Isopropyltoluene	25.0	24.4		ug/L		98	73 - 120
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	71 - 125
Acetone	125	137		ug/L		110	56 - 142
Benzene	25.0	25.2		ug/L		101	71 - 124
Bromodichloromethane	25.0	25.7		ug/L		103	80 - 122
Bromoform	25.0	24.0		ug/L		96	61 - 132
Bromomethane	25.0	24.8		ug/L		99	55 - 144
Carbon disulfide	25.0	25.3		ug/L		101	59 - 134
Carbon tetrachloride	25.0	24.9		ug/L		99	72 - 134
Chlorobenzene	25.0	25.1		ug/L		100	80 - 120

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Lab Sample ID: LCS 480-560615/5
Matrix: Water
Analysis Batch: 560615

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	24.2		ug/L		97	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	27.0		ug/L		108	68 - 124
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	74 - 124
Cyclohexane	25.0	23.8		ug/L		95	59 - 135
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	32.4		ug/L		130	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
m,p-Xylene	25.0	25.4		ug/L		102	76 - 122
Methyl acetate	50.0	54.0		ug/L		108	74 - 133
Methyl tert-butyl ether	25.0	25.1		ug/L		100	77 - 120
Methylcyclohexane	25.0	24.1		ug/L		97	68 - 134
Methylene Chloride	25.0	24.3		ug/L		97	75 - 124
n-Butylbenzene	25.0	24.4		ug/L		98	71 - 128
N-Propylbenzene	25.0	24.9		ug/L		100	75 - 127
o-Xylene	25.0	24.9		ug/L		100	76 - 122
sec-Butylbenzene	25.0	24.1		ug/L		96	74 - 127
Styrene	25.0	25.3		ug/L		101	80 - 120
tert-Butylbenzene	25.0	24.4		ug/L		97	75 - 123
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	28.7		ug/L		115	62 - 150
Vinyl chloride	25.0	26.2		ug/L		105	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

GC/MS VOA

Analysis Batch: 560615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178540-1	RI-MW-2	Total/NA	Water	8260C	
480-178540-2	RI-MW-4	Total/NA	Water	8260C	
480-178540-3	RI-MW-6	Total/NA	Water	8260C	
480-178540-4	RI-MW-9	Total/NA	Water	8260C	
480-178540-5	RI-MW-10	Total/NA	Water	8260C	
480-178540-6	Trip Blank	Total/NA	Water	8260C	
MB 480-560615/7	Method Blank	Total/NA	Water	8260C	
LCS 480-560615/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Client Sample ID: RI-MW-2
Lab Sample ID: 480-178540-1
Date Collected: 11/20/20 08:52
Matrix: Water
Date Received: 11/20/20 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	560615	11/24/20 14:02	AMM	TAL BUF

Client Sample ID: RI-MW-4
Lab Sample ID: 480-178540-2
Date Collected: 11/20/20 12:12
Matrix: Water
Date Received: 11/20/20 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	560615	11/24/20 14:25	AMM	TAL BUF

Client Sample ID: RI-MW-6
Lab Sample ID: 480-178540-3
Date Collected: 11/20/20 13:36
Matrix: Water
Date Received: 11/20/20 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	560615	11/24/20 14:48	AMM	TAL BUF

Client Sample ID: RI-MW-9
Lab Sample ID: 480-178540-4
Date Collected: 11/20/20 13:15
Matrix: Water
Date Received: 11/20/20 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	560615	11/24/20 15:11	AMM	TAL BUF

Client Sample ID: RI-MW-10
Lab Sample ID: 480-178540-5
Date Collected: 11/20/20 10:06
Matrix: Water
Date Received: 11/20/20 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560615	11/24/20 15:34	AMM	TAL BUF

Client Sample ID: Trip Blank
Lab Sample ID: 480-178540-6
Date Collected: 11/20/20 00:00
Matrix: Water
Date Received: 11/20/20 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560615	11/24/20 15:58	AMM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-178540-1
Project/Site: Benchmark-791 Washington St.(Trico site)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178540-1	RI-MW-2	Water	11/20/20 08:52	11/20/20 15:26	
480-178540-2	RI-MW-4	Water	11/20/20 12:12	11/20/20 15:26	
480-178540-3	RI-MW-6	Water	11/20/20 13:36	11/20/20 15:26	
480-178540-4	RI-MW-9	Water	11/20/20 13:15	11/20/20 15:26	
480-178540-5	RI-MW-10	Water	11/20/20 10:06	11/20/20 15:26	
480-178540-6	Trip Blank	Water	11/20/20 00:00	11/20/20 15:26	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Tom Behrendt	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-153286-32966.2
Client Contact: Mr. Christopher Boron	Phone: (716) 815-8358	E-Mail: Brian.Fischer@Eurofinset.com		Page: Page 2 of 2
Company: Turnkey Environmental Restoration, LLC				Job #:

Address: 2558 Hamburg Turnpike	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Lackawanna	TAT Requested (days): STANDARD		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 14218			
Phone: 716-856-0635(Tel) 716-856-0583(Fax)	PO #: B0092-016-002		
Email: cboron@benchmarkturnkey.com	WO #:		Other:
Project Name: Benchmark-791 Washington St.(Trico site)	Project #: 48013685		
Site: Former Trico Plant	SSOW#:		

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:		X	X	A	X	
RI-MW-2	11/20/20	852	Grab	Water			X	3	
RI-MW-4		1212		Water			X	3	
RI-MW-6		1336					X	3	
RI-MW-9		1315					X	3	
RI-MW-10		~~1006~~					X	3	
TripBlank								3	

480-178540 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ 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: 11/20/20 1526	Company: Benchmark	Received by:	Date/Time: 11/20/20 1526	Company: TA
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: 2.0 #1 ICE

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-178540-1

Login Number: 178540

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 #1 ICe
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Former Tyco Plant

Project No.:

Client: Kroger

Date: 11/20/20

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	0800	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☒ 6223973 ☐	TAB	4.00	4.02	4
						7.00	7.03	7
						10.01	9.97	10
☒ Turbidity meter	NTU	0800	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☒ 17110C062619 (Q) ☐	TAB	10 NTU verification	10.4	10.0
						< 0.4		
						20		
						100		
						800		
☒ Sp. Cond. meter	uS mS	0800	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☐ 6243003 ☒ 6223973 ☐	TAB	7.000 mS @ 25 °C	6,976	7.00
☐ PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
☒ Dissolved Oxygen	ppm	0800	HACH Model HQ30d	080700023281 ☒ 100500041867 ☐ 140200100319 ☐	TAB	100% Satuartion	100% slope	102.2 %
☐ Particulate meter	mg/m³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: TAB **DATE:** 11/20/20

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Trico Plant Date: 11/20/20

Location: Buffalo NY Project No.: Field Team:

Well No. RI-MW-2 | Diameter (inches): 2" | Sample Date / Time: 11/20/20 852

Product Depth (fbTOR): – | Water Column (ft): 5.25 | DTW when sampled: 15.03

DTW (static) (fbTOR): 11.03 | One Well Volume (gal): 0.85 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample

Total Depth (fbTOR): 16.28 | Total Volume Purged (gal): 3.0 | Purge Method: Sub mersible pump

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
832	0 Initial	0	5.92	12.3	5825	119	2.10	215	SL Turb. No odor
835	1 12.30	0.25	6.56	12.6	4826	55.6	2.37	206	"
839	2 13.45	1.25	6.80	11.9	4532	41.1	2.13	200	"
844	3 14.51	2.0	6.92	12.0	4925	36.5	1.80	196	"
846	4 14.83	2.5	6.96	12.0	5404	32.2	1.54	194	"
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
852	S1 15.03	3.0	7.04	11.8	5412	34.4	1.91	190	
	S2								

Well No. RI-MW-10 | Diameter (inches): 2" | Sample Date / Time: 11/20/20 1006

Product Depth (fbTOR): 3.30 | Water Column (ft): ~~1.58~~ 3.50 | DTW when sampled:

DTW (static) (fbTOR): 15.18 | One Well Volume (gal): ~~14.74~~ 1.93 | Purpose: ☐ Development ☐ Sample ☐ Purge & Sample

Total Depth (fbTOR): | Total Volume Purged (gal): 6.50 | 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
927	0 Initial	0	7.96	12.1	1182	40.1	2.97	186	SL Turb. No odor
930	1 5.83	0.50	7.47	12.6	1056	35.0	3.79	185	"
933	2 6.43	1.0	7.43	12.6	1149	44.4	2.78	186	"
940	3 7.93	3.0	7.40	12.6	1145	24.1	1.82	185	"
954	4 9.03	4.0	7.40	12.2	1158	20.9	1.85	183	"
1000	5 12.10	6.0	7.37	12.3	1189	52.3	1.96	182	"
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1006	S1 12.46	6.50	7.38	12.6	1193	32.9	2.07	181	"
	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: TAB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Tifco Plant
Location: Buffalo NY
Project No.:
Date: 11/20/20
Field Team: TAB

Well No. RI-MW-9			Diameter (inches): 2"			Sample Date / Time: 11/20/20			
Product Depth (fbTOR): —			Water Column (ft): 12.13			DTW when sampled: 13.67			
DTW (static) (fbTOR): 4.0			One Well Volume (gal): 1.97			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 16.13			Total Volume Purged (gal):			Purge Method: Submersible pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1025	0 Initial	0	7.06	13.0	1481	247	1.11	-16	Sulfur odor
1027	1 8.01	1.0	7.00	13.8	920.6	401	1.32	-66	"
1033	2 9.94	2.0	6.89	13.9	894.6	142	0.76	-85	"
1043	3 14.93	4.0	6.84	13.9	1609	41.0	0.78	-86	"
1057	4 DRY	5.0	7.13	14.0	1610	69.0	3.49	-82	"
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1215	S1 13.67	~	7.44	13.4	1472	92.0	1.39	-92	"
	S2								

Well No. RI-MW-4			Diameter (inches): 1"			Sample Date / Time: 11/20/20 1212			
Product Depth (fbTOR): —			Water Column (ft): 7.03			DTW when sampled: 4.67			
DTW (static) (fbTOR): 0.35			One Well Volume (gal): 0.28			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 7.38			Total Volume Purged (gal): 1.0			Purge Method: mini Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1120	0 Initial	~	7.20	12.1	3828	206	2.30	-53	Sulf. No odor
1130	1 5.0	0.25	7.14	12.0	3835	>1000	1.94	-68	" Sulfur
1138	2 5.30	0.50	7.05	12.0	3917	>1000	1.92	-71	" Sulfur
1200	3 6.50	1.0	7.13	12.1	3862	>1000	1.67	-74	" Sulfur
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1212	S1 4.67	~	7.17	11.7	5831	>1000	3.15	-76	"
	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: MB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Former Trico Plant
Location: Buffalo NY
Project No.:
Date: 11/20/20
Field Team: TH3

Well No. RI-MW-6			Diameter (inches): 2"			Sample Date / Time: 11/20/20 1336			
Product Depth (fbTOR): —			Water Column (ft): 14.80			DTW when sampled:			
DTW (static) (fbTOR): 1.14			One Well Volume (gal): 2.41			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 15.94			Total Volume Purged (gal): 7.25			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
1257	0 Initial	0	7.78	11.6	1653	222	1.59	-28	Turb. No Odor
1300	1 4.56	0.75	7.62	11.3	1557	101	1.69	-37	"
1308	2 7.32	2.5	7.52	11.4	1516	16.2	1.38	-48	"
1318	3 10.43	5.0	7.46	11.6	1844	17.9	1.39	-54	"
1331	4 12.01	7.0	7.47	11.6	1593	89.4	1.39	-55	"
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1336	S1 12.43	7.25	7.49	11.6	2048	109	1.95	-57	"
	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: TH3